Peer-Reviewed Publications Citing Vapourtec

2026

Total publications as of 30th September 2026: 1,417

Year total: 81

[1417] Zhang X, Gajula PK, Vasilev M, Hibbert G, Sirasani G, Gangu A, Qu B, Senanayake C, " Practical Synthesis of Methyl N2-(tert-butoxycarbonyl)-N4-(1-(tert-butyl)-1H-pyrazol-4-yl)-L-asparaginyl-L-phenylalaninate Utilizing Continuous-Flow Technology", Organic Process Research & Development, 2026. https://pubs.acs.org/oprdfk/article/doi/10.1021/acs.oprd.6c00305/5433290

[1416] Hu Q, Jamieson P, Naik P, Bannon R, Crawford R, Cronly D, Man Fung F, Baumann M, "Sustainable Laboratories with Green Flow Chemistry and Novak's Meaningful Learning", Journal of Chemical Education, 2026. https://pubs.acs.org/jceda8/article/doi/10.1021/acs.jchemed.6c00940/5439130

[1415] Jasper JP, Fricke PJ, Andreasson M, Guerzoni M, Pelphrey S, Cunningham T, Epstein O, Karlsson S, Pearson A, Elmore C, "The Batch Nature of Continuous Flow Production via Natural-Abundance Stable Isotopes", Organic Process Research & Development, 2026. https://pubs.acs.org/oprdfk/article/doi/10.1021/acs.oprd.6c00329/5431771

[1414] Martínez ÁM, García J, Domínguez G, Prats-Colàs P, Alonso I, Baumann M, Pérez-Castells J, "Diastereoselective radical hydroalkylation of cyclopropenes enabled by EDA complexes", Organic Chemistry Frontiers, Vol. 13, pp. 5870-5878, 2026. https://pubs.rsc.org/qo/article-abstract/doi/10.1039/d6qo00827e/1283135

[1413] Pinzón S, Hsu W, Ebert D, Kraume M, Seeberger P, Danglad-Flores J, "A Simplified Model for Solid Phase Synthesis Flow Reactors", Reaction Chemistry & Engineering, 2026. https://pubs.rsc.org/re/article-abstract/doi/10.1039/D6RE00159A/1280946

[1412] Raeymackers N, Coquyt J, Heugebaert T, Stevens C, "Optimized continuous flow Vorbrüggen coupling for synthesis of environmentally improved fluoroquinolones", Reaction Chemistry & Engineering, 2026. https://pubs.rsc.org/re/article-abstract/doi/10.1039/D6RE00222F/1287471

[1411] Duarte L, ''Advances in Multicomponent Petasis Reaction: A 2020-2025 Review'', Orbital - The Electronic Journal of Chemistry, pp. 24-40, 2026. https://periodicos.ufms.br/index.php/orbital/article/view/24965

[1410] Fujii Y, Doi T, Ueda Y, Yada A, Oisaki K, Nozawa-Kumada K, ''Material-Efficient Optimization of Peptide Bioconjugation via Sub-Micromole Automated Flow and Bayesian Optimization'', Synlett, 2026. https://www.thieme-connect.com/products/ejournals/html/10.1055/a-2942-7756

[1409] Li X, Wu C, Liu G, ''Synthetic Approaches to Selenophosphates and Tellurophosphates'', Asian Journal of Organic Chemistry, Vol. 15, 2026. https://aces.onlinelibrary.wiley.com/doi/abs/10.1002/ajoc.70559

[1408] Donnier-Valentin L, Heinrich R, Fevre-Renault Q, Legros J, Linclau B, Paolis M, ''A study towards the undirected fluorination and chlorination of cubane 1,4-diester'', Beilstein Journal of Organic Chemistry, Vol. 22, 2026. https://www.beilstein-journals.org/bjoc/articles/22/101

[1407] McCormack A, McEvoy C, Stephens J, ''Continuous flow synthesis of bioconjugation ready naphthalene based azo fluorescent quenchers as BHQ-2 alternatives'', Journal of Flow Chemistry, 2026. https://link.springer.com/article/10.1007/s41981-026-00383-6

[1406] Rustmeier NH, Verma N, Pfrengle F, ''Glucose Modulates Marine Xylanase Activity: Insights From Caulerpa lentillifera and Synthetic β-1,3-glucoxylans'', Chembiochem: a European journal of chemical biology, Vol. 27, 2026. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cbic.70406

[1405] Ba L, ''Bridging Reaction Engineering and Polymers Design: Solvent Effects in Continuous Flow Copolymerization'', Thesis, 2026. https://digitalcommons.unl.edu/chemengtheses/48/

[1404] Adak S, ''Accessing Three-Dimensional Medicinally Relevant Scaffolds via Photochemical Dearomatization and Cycloadditions'', Thesis, 2026. https://search.proquest.com/openview/8dcf8f000fc19f02cb4924f785bc87e5/1?pq-origsite=gscholar&cbl=18750&diss=y

[1403] Raborg-Grullon A, Kairouz V, Charette A, ''Continuous Flow Friedel-Crafts Acylation Reaction and Application to the Synthesis of Acetaminophen'', Organic Process Research & Development, Vol. 30, pp. 2194-2202, 2026. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.6c00085

[1402] Coeuillas A, Ceuninck A, Chausset-Boissarie L, Legros J, Jubault P, Poisson T, ''Process-Intensified Continuous Flow Synthesis of Propofol'', Organic Process Research & Development, Vol. 30, pp. 2296-2307, 2026. https://doi.org/10.1021/acs.oprd.6c00151

[1401] Nickels S, Kitcatt D, Vilela F, Lee A, ''Visible Light-Mediated Direct Decarboxylative Giese Amidations without a Photocatalyst—Batch and Flow'', The Journal of organic chemistry, Vol. 91, pp. 11635-11641, 2026. https://pubs.acs.org/joceah/article-abstract/doi/10.1021/acs.joc.6c00672/5254505

[1400] Penzer KE, Gregory DG, Turnage JT, Thieken CD, Kohn SG, Ferri JK, ''Continuous Distillation for Drug Substance Manufacturing'', Pharmaceutical research, Vol. 43, pp. 2301-2317, 2026. https://link.springer.com/article/10.1007/s11095-026-04172-7

[1399] Martínez-Aguirre M, Bailey RM, Schaefer B, Crimmin MR, Miller PW, ''Cobalt photocatalysed carbonylation reactions in continuous flow'', Chemical communications, Vol. 62, pp. 19306-19310, 2026. https://pubs.rsc.org/cc/article-abstract/doi/10.1039/D6CC03757G/1296591

[1398] Almodôvar V, Moreno K, Jadhao P, Moth-Poulsen K, ''Sustainable Metal Mixture Separation From E-Waste Leaching: Flow-Based System Approach With Closed-Loop Reutilization of Organic Ligands'', ChemSusChem, Vol. 19, 2026. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cssc.70864

[1397] Mughal EU, Naeem N, Iftikhar L, Shabnam, Afzaal A, Alrafai HA, Zaki MEA, Sadiq A, Fathalla M, ''The Staudinger reaction: a versatile synthetic tool for the construction of β-lactams, heterocycles, and functional organic molecules'', RSC advances, Vol. 16, pp. 47608-47655, 2026. https://pubs.rsc.org/ra/article-pdf/16/41/47608/13706168/d6ra06191e.pdf

[1396] Alfano AI, Tufano LMM, Summa V, Brindisi M, ''Efficient and scalable photochemical coupling of pinacol and aza-pinacol in continuous-flow'', Communications Chemistry, Vol. 9, 2026. https://www.nature.com/articles/s42004-026-02125-0

[1395] Leclercq N, Silva-Brenes D, Monbaliu J, Baumann M, ''Continuous-flow photogeneration of nitrosobenzaldehydes enables indazolone formation'', Communications Chemistry, Vol. 9, 2026. https://www.nature.com/articles/s42004-026-02146-9

[1394] Deroose N, Haddleton D, Pointer W, Radmall R, Hecke K, Dubruel P, ''Designing Amphiphilic Gelatin Hydrogels through Control of Polyester and Polycarbonate Graft Length'', Chemistry of Materials, Vol. 38, pp. 8307-8323, 2026. https://pubs.acs.org/cmatex/article-abstract/38/16/8307/5249794/Designing-Amphiphilic-Gelatin-Hydrogels-through?redirectedFrom=PDF

[1393] Phillips DP, Alper PB, Borkin D, Han D, Kochanek SE, Gurjar J, Mathison CJN, Nelson JM, Pei W, Nguyen BN, Hoffman T, Okram B, Nguyen TN, Jiang S, Masick BT, Wang Z, Cho CY, Yin H, Chen Y, Juarez J, Jia Y, Zhou V, Liu G, Wright C, Nguyen T, Knee DA, Liu Q, Liu J, Li J, Virata C, de Oliveira C, DiDonato M, Bursulaya B, Vidal-Biggart A, Jones DH, Witmer D, Chu C, Jin H, Herath A, Richmond W, Groessl T, Shapiro M, Effenberger K, Arroyo K, Bretz A, Honda A, Gordon WP, Molteni V, Haling JR, ''Lead Optimization of Multimutant KRAS Switch-II Pocket Macrocyclic Inhibitors via Isosteric Replacement to Improve ADME and Oral Exposure'', Journal of medicinal chemistry, Vol. 69, pp. 20698-20718, 2026. https://pubs.acs.org/jmcmar/article-abstract/69/17/20698/5329062/Lead-Optimization-of-Multimutant-KRAS-Switch-II

[1392] Karim A, Fantin Do Amaral Silva G, Refaa Z, Wang Z, Orrego Hernandez J, Fei L, Johansson P, Sasic Kalagasidis A, Moth-Poulsen K, ''Molecular solar thermal storage integration for domestic hot water co-heating: experimental discharge characterization and numerical feasibility assessment'', Journal of Energy Storage, Vol. 178, pp. 123498, 2026. https://doi.org/10.1016/j.est.2026.123498

[1391] Nemala S, Yu Z, Pal A, Zaman W, Kharwar Y, Deepak F, Ferreira P, Kolen'ko Y, Katam S, Thalluri S, ''Dynamic surface activation of PtNiRu medium-entropy alloy catalysts for durable PEM water electrolysis'', Chemical Engineering Journal, Vol. 546, pp. 180266, 2026. https://doi.org/10.1016/j.cej.2026.180266

[1390] Huang Y, Lin Y, Shang X, Verma H, Chou Y, Chen C, Liang K, Huang S, Chen X, Kaun C, Wei D, Liu R, '' Benzothiazole ligand engineering enables near-unity photoluminescence and long-term stability in CsPbI3 perovskite quantum dots'', Nano Energy, Vol. 158, pp. 112319-112319, 2026. https://www.sciencedirect.com/science/article/pii/S2211285526006233

[1389] Moroni G, Weiss M, Russo G, Biscontini G, Lanaridi O, Limbeck A, Huber T, Opitz AK, Bica-Schröder K, "Closing the Carbon Loop: Continuous-Flow Synthesis of N-Aroyl Sulfoximines via Electrochemical CO2 Reduction", ChemSusChem, Vol. 19, 2026. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cssc.70810

[1388] Boruah T, Arepally S, Melen R, Wirth T, "Numbering-Up Flow Electroreduction of α, β-Unsaturated Carbonyls from Gram to Pilot-Relevant Scale", Organic Process Research & Development, 2026. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.6c00175

[1387] McCormack A, Stephens J, "Continuous Flow Synthesis of DABCYL Azo Fluorescent Quenchers", Organic Process Research & Development, Vol. 30, pp. 1503-1513, 2026. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.5c00461

[1386] Karmakar A, Revu O, Vasilev M, Li J, Chen A, Popuri S, Shingare RD, Mamunooru M, Gangu AS, Sirasani G, Maguire RJ, Qu B, Martinelli M, Senanayake CH, "Zinc (d)-Tartrate Catalyzed Asymmetric Epoxide Ring Opening: Access to Enantioenriched β-Hydroxy Thiols and ADC Linker Compounds", The Journal of organic chemistry, Vol. 91, pp. 8432-8439, 2026. https://pubs.acs.org/doi/abs/10.1021/acs.joc.6c00387

[1385] McCormack A, Dhara A, Alaa Eldin Refat L, Bols M, Murphy P, "N-Glycosyl Triazoline Glycomimetics via Huisgen Cycloaddition With an Electron-Deficient Alkene and BF_3-Catalysed Triazoline Fragmentation to Aziridines", European Journal of Organic Chemistry, Vol. 29, 2026. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202501083

[1384] Javdani A, Ivanushkin G, Sajid A, Khan IA, Khalil I, Herrero P, Ke Q, Deneyer A, Dusselier M, "Reactor-based approach for achieving high-silica zeolites: a fed-batch strategy", Journal of materials chemistry, Vol. 14, pp. 21799-21813, 2026. https://pubs.rsc.org/en/content/articlehtml/2026/ta/d5ta08521g

[1383] Franco MS, Silva RCE, Souza RAC, Lee EY, Junior JMB, Pastre JC, "Continuous-Flow Asymmetric Photocatalysis for the Synthesis of Natural and Unnatural α-Amino Acid Derivatives", ACS organic & inorganic Au, Vol. 6, pp. 282-287, 2026. https://pubs.acs.org/doi/abs/10.1021/acsorginorgau.6c00024

[1382] Gede M, Ignácz G, Castro C, Dereli B, Ferree M, Laquai F, Cavallo L, Székely G, "Tailoring polymers of intrinsic microporosity as photoredox catalysts for continuous-flow reaction-separation processes", Nature Communications, 2026. https://www.nature.com/articles/s41467-026-73833-3

[1381] Pinzón-López S, Ebert D, Kraume M, Seeberger P, Danglad-Flores J, "Swelling Thermodynamics and Kinetics of Crosslinked Polystyrene Resin in Solid-Phase Synthesis", Macromolecular Chemistry and Physics, Vol. 227, 2026. https://onlinelibrary.wiley.com/doi/abs/10.1002/macp.70283

[1380] Mc Carogher K, Weerarathna LJ, Junkers T, Kuhn S, "An acoustic platform for facile, size-targeted polymeric nanoparticle synthesis", Chemical science, 2026. https://pubs.rsc.org/en/content/articlehtml/2026/sc/d6sc03741k

[1379] Graves M, Brunner K, Schafmeister C, “Pilot-Scale Flow Synthesis of Hydantoins via the Bucherer-Bergs Reaction”, Research Square, 2026. https://www.researchsquare.com/article/rs-9645340/latest

[1378] Fiore A, Scarano A, Antonini G, Corfù AI, Sicuro L, Faggiano S, Celesia A, Tesoriero C, Pacchiana R, Vettori A, Arslanbaeva L, Minucci S, Pallavicini I, Mollica L, Tamborini L, Donadelli M, Conti P, Bruno S, Borsari C, “First-in-Class Covalent Inhibitors of PFKFB3: Discovery and Characterization in PDAC Models”, Journal of Medicinal Chemistry, Vol. 69, pp. 13248-13271, 2026. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.6c00235

[1377] Machida K, Kawachi H, Yonezawa S, Morishige Y, Azuma M, Nishiyama A, Igarashi K, “Particle Size Control in Perampanel and Taurine via Continuous Crystallization Using MSMPR Sonocrystallizer: Comparison to Couette-Taylor Crystallizer”, Organic Process Research & Development, Vol. 30, pp. 1250-1258, 2026. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.5c00517

[1376] Lyon K, Pan C, Sathiyalingam S, Wu Y, Matthews J, Brandt JR, “Continuous Photoflow Synthesis of Heterohelicenes”, Organic letters, Vol. 28, pp. 5918-5922, 2026. https://doi.org/10.1021/acs.orglett.6c00559

[1375] Zhang S, Zhang J, Lapkin A, “A knowledge graph framework for digital twins of chemical processes”, Nature Chemical Engineering, Vol. 3, pp. 286-297, 2026. https://www.nature.com/articles/s44286-026-00392-1

[1374] Le T, Robertson K, Fisk I, Tran N, Yang D, Selomulya C, Hessel V, “Flow-Made Fertilisers for Cherry Belle Radish (Raphanus sativus L.) Growth in Acidic and Calcareous Soils”, Journal of Sustainable Agriculture and Environment, Vol. 5, 2026. https://doi.org/10.1002/sae2.70172

[1373] Kuo YT, Le Mai Hoang K, Seeberger PH, “Synthesis of sialylated human milk oligosaccharides by automated glycan assembly”, Nature communications, Vol. 17, 2026. https://www.nature.com/articles/s41467-026-73028-w

[1372] Dupont W, Petitcollin R, Leclerc M, Gendron D, “Flow Synthesis of Conjugated Polymers: Advances, Challenges, Instrumentation, and Future Directions”, Macromolecular Chemistry and Physics, Vol. 227, 2026. https://onlinelibrary.wiley.com/doi/abs/10.1002/macp.70278

[1371] Wang H, Meville O, Mills H, Ngan M, Werber J, Gupta N, “Python-controlled, solvent-resistant fraction collector for automated flow synthesis”, Digital Discovery, Vol. 5, pp. 2067-2073, 2026. https://pubs.rsc.org/en/content/articlehtml/2026/dd/d5dd00554j

[1370] Diprima D, Anwar K, Noël T, “Overcoming the Achilles Heel of flow chemistry: strategies for solid handling in heterogeneous continuous-flow reactors”, Journal of Flow Chemistry, Vol. 16, pp. 55-82, 2026. https://link.springer.com/article/10.1007/s41981-026-00374-7

[1369] Gajula P, Vasilev M, Li J, Gangu A, Lee D, Tung H, Mamunooru M, Wang Z, Chen A, Rana J, Yin J, Regati S, Karmakar A, Ghosh A, Chatterjee S, Yadaw A, Roy S, Bandu R, Dissanayake K, Bietsch J, Wannere C, Krishnamurthy D, Sirasani G, Achanta S, Armstrong J, Huang J, Sanderson P, Qu B, Senanayake C, “Development of Scalable and Commercial Synthesis for GS-441524”, Organic Process Research & Development, Vol. 30, pp. 826-842, 2026. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.5c00368

[1368] Pucihar U, “Self optimization of Claisen Schmidt condensation on a microflow reaction system”, Thesis, 2026. http://hdl.handle.net/20.500.12556/RUL-181419

[1367] Abdulaziz B, “Transport Study of Thermally-Responsive Tracers for Geothermal Performance Evaluation and Improvement”, eCommons, 2026. https://hdl.handle.net/1813/120731

[1366] Hall M, Zhang B, Liarou E, Junkers T, Haddleton D, “High-Throughput Kinetic Screening of UV and Visible Light-Induced Copper-RDRP in Continuous Flow Using Inline Benchtop NMR Analysis”, JACS Au, Vol. 6, pp. 2387-2395, 2026. https://pubs.acs.org/doi/abs/10.1021/jacsau.6c00015

[1365] Ruos ME, “Development of General Methods for Nucleophilic Functionalization”, Thesis, 2026. https://search.proquest.com/openview/07cdc148fc412d3dd74fd9a96e81fb37/1?pq-origsite=gscholar&cbl=18750&diss=y

[1364] Lepori M, “Photocatalytic Multicomponent Alkene Difunctionalization Strategies to Enhance molecular Complexity in Batch and Flow”, University of Regensburg Publication Server, 2026. https://epub.uni-regensburg.de/79253/

[1363] Vargas G, Schwarzer M, Mendl A, Bošković D, “Autonomous Optimization of Continuous-Flow Diazo Intermediates Synthesis”, Reaction Chemistry & Engineering, 2026. https://pubs.rsc.org/en/content/articlehtml/2026/re/d6re00154h

[1362] Daly AM, Hardiman S, Hogan D, Morris G, Moylan R, O'Donovan B, Power E, Phillips P, Robinson S, Roth PMC, Smyth M, Magner E, Arthur A, McGlacken GP, Baumann M, Maguire AR, "Insights into Flow and Continuous Systems in Pharmaceutical Manufacturing: Challenges and Opportunities", Organic process research & development, Vol. 30, pp. 578-594, 2026. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.5c00309

[1361] Ryabukhin S, Nosik P, Leha D, Volochnyuk D, "Ruppert-Prakash Reagent as a Source of Difluorocarbene: Mechanistic, Synthetic, and Practical Perspectives for Small-Ring Synthesis", Israel Journal of Chemistry, Vol. 66, 2026. https://onlinelibrary.wiley.com/doi/abs/10.1002/ijch.70012

[1360] Sebastianella G, Villafiorita-Monteleone F, Ferretti A, Ragona V, Zappia S, Barbieri A, Camaioni N, Tinti F, "Organic solar cells based on aqueous polymer nanoparticles: an effective approach to remove residual surfactant", 2026. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=6042327

[1359] Mensah J, Jampaiah D, Kokate R, Kumar P, Karatchevtseva I, Zhang Y, Moir M, Darwish T, "Flow-Enabled Deuteration of Saturated Fatty Acids over Platinum Group Metals: Mechanistic and Process Insights", ACS Catalysis, 2026. https://pubs.acs.org/doi/abs/10.1021/acscatal.5c07786

[1358] Jenek NA, Brock SL, Mao J, Fogh AA, Phanopoulos A, Crimmin MR, "Chemical recycling of hydrofluorocarbons by transfer fluorination", Nature chemistry, 2026. http://dx.doi.org/10.1038/s41557-026-02096-8

[1357] Martínez-Aguirre M, Bailey R, Schaefer B, Crimmin M, Miller P, "Photocatalytic Amino and Alkoxy Carbonylation Reactions in Flow Using [Co2 (CO) 8]", ChemRxiv, 2026. https://chemrxiv.org/doi/abs/10.26434/chemrxiv.15000809/v1

[1356] Oh S, Park Y, Park S, Choi S, Bae S, "Continuous flow chemistry for the synthesis of highly energetic materials: A review of synthetic advancements, process intensification, and safety engineering", Journal of Hazardous Materials Advances, Vol. 22, pp. 101118-101118, 2026. https://www.sciencedirect.com/science/article/pii/S2772416626001178

[1355] Nigenda S, Nigenda E, Laude V, Nuño M, Guthrie D, Trant J, "Sub-stoichiometric peptide synthesis", ChemRxiv, 2026. https://chemrxiv.org/doi/abs/10.26434/chemrxiv.15000415/v1

[1354] Wong WN, Phillips DJ, Rahman MT, Junkers T, "Automated closed-loop continuous flow block copolymer synthesizer", Chemical science, Vol. 17, pp. 4222-4234, 2026. https://doi.org/10.1039/d5sc07307c

[1353] Johnston Z, Peme T, Mabasa T, Len C, Riley D, Panayides JL, Sagandira CR, “Advances in solid handling for continuous flow synthesis of specialty chemicals and pharmaceuticals”, Communications chemistry, Vol. 9, 2026. http://dx.doi.org/10.1038/s42004-026-01954-3

[1352] Jamieson P, Bannon R, Cronly D, Smyth M, Wharry S, Moody TS, Lennon G, Baumann M, “The Impact of Continuous Flow Technology and Collaboration between Academia and Industry”, JACS Au, Vol. 6, pp. 691-719, 2026. https://pubs.acs.org/doi/abs/10.1021/jacsau.5c01617

[1351] Crovetto T, Pasquale A, Consolini D, Contente M, Pellis A, “Enzymatic Ring-Opening Polymerization of ε-Caprolactone in Novel Green Solvents: from Batch Systems to Continuous Flow Mesoreactors”, Macromolecular Materials and Engineering, Vol. 311, 2026. https://onlinelibrary.wiley.com/doi/abs/10.1002/mame.202500332

[1350] Arnaut Z, Felgueiras A, Rodrigues F, Aroso R, Nunes S, Pais A, Pereira M, “A New Rule(r) for Nitrobenzene-Based Synthesis of meso-Tetraarylporphyrins under Continuous-Flow: Design of Experiments-Guided Optimization”, Organic Process Research & Development, Vol. 30, pp. 321-333, 2026. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.5c00348

[1349] Uozumi P, Yamada H, “Electrochemical Synthesis of 4-Aryl-4-oxobutylbenzoates in Batch and Flow”, Synfacts, Vol. 22, pp. 164-164, 2026. https://www.thieme-connect.com/products/ejournals/pdf/10.1055/a-2746-6057.pdf

[1348] Gregory DG, Kay KE, Turnage JT, Penzer KE, Ferri JK, “Development of an Advanced Manufacturing Technology for Continuous Drug Substance Production”, Industrial & engineering chemistry research, Vol. 65, pp. 1469-1482, 2026. https://pubs.acs.org/doi/abs/10.1021/acs.iecr.5c04185

[1347] Brassart L, “Continuous flow functionalization of pharmaceutically relevant synthons by activation with lithiated derivatives”, Chimie organique, 2026. https://theses.hal.science/tel-05566491/

[1346] Pandiya H, “Flow Chemistry and Automated Experiments: Towards Autonomous and Scalable Chemical Synthesis”, International Journal of Science and Research, pp. 364-365, 2026. https://doi.org/10.21275/sr26105185908

[1345] Weis D, Horsinka S, Bhattacharya R, Langner T, Waldvogel S, “From Polyhalo-organic and Persistent Waste to Acetals: An Electrochemical Transfer Approach”, ACS electrochemistry, Vol. 2, pp. 529-540, 2026. https://pubs.acs.org/doi/abs/10.1021/acselectrochem.5c00498

[1344] Masoomi Kolahlah K, "Development of Well-Defined, Bench-Stable Ni-NHC Precatalysts for Challenging CN Bond Formation Reactions", Thesis, 2026. https://ruor.uottawa.ca/items/9bbb8afa-0972-42d1-8e72-d84f3f905665

[1343] Li S, "Microgels as a basis for affinity delivery of bioactive proteins", Thesis, 2026. https://discovery.ucl.ac.uk/id/eprint/10221823/

[1342] Kim Y, "Transition-Metal-Free Synthesis of 1, 2, 3-Trisboronates and Continuous Flow Application to Boronates Preparation from Oxygen-Rich Feedstocks", Thesis, 2026. https://escholarship.mcgill.ca/concern/theses/w0892h95z

[1341] Bigot A, Decalogne F, Manzanas J, Yuan C, Chen H, Sun F, "Photo-Flow Reaction and Enantiomer Separation as an Enabling Combination to Chiral Substituted 1, 2-Cyclobutanediol", Helvetica Chimica Acta, 2026. https://onlinelibrary.wiley.com/doi/abs/10.1002/hlca.202500200

[1340] Aydoğan C, Magiakos A, Hall M, Yao Y, Haddleton D, "Visible-Light Induced Photopolymerization Mediated by Mn_2 (CO) $_{10}$ in a Continuous-Flow process", 2026. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=6346375

[1339] Penzer K, Gregory D, Kohn S, Kay K, Turnage J, Ferri J, "Advances in continuous manufacturing of albuterol sulfate: optimization of an amination reaction in flow", Reaction Chemistry & Engineering, 2026. https://pubs.rsc.org/en/content/articlehtml/2026/re/d5re00465a

[1338] Pasha M, Akilarasan M, Ali M, Farooq W, Tahir M, Saleem M, Niazi M, "Recent advancements in process intensification for singlet oxygen-mediated photooxidative transformations using flow photoreactors and photocatalytic materials", Green Chemistry, 2026. https://pubs.rsc.org/en/content/articlehtml/2026/gc/d5gc06801k

[1337] Ren P, Liu Y, Nisar I, Das S, "Turning Sunlight and Seawater Into Energy: Photocatalytic Hydrogen Peroxide as a Green Fuel Carrier", Advanced materials, Vol. 38, 2026. https://advanced.onlinelibrary.wiley.com/doi/abs/10.1002/adma.72660

2025

Year Total: 143

[1336] Köpfler DM, ''Electrochemical decarboxylation in flow: anodic and cathodic strategies for the synthesis of key pharmaceutical intermediates/David M. Köpfler, MSc BSc'', Thesis, 2025. https://unipub.uni-graz.at/obvugrhs/content/titleinfo/12791474

[1335] Charlton S, “Studies on Diels-Alderase Enzymes in Tetronate Biosynthetic Pathways”, Thesis, 2025. https://research-information.bris.ac.uk/files/480279818/Sacha-Charlton-Thesis-Studies_on_Diels-Alderase_Enzymes.pdf

[1334] Wolf C, “Synthesis and analysis of reduced aromatic species”, Thesis, 2025. https://thesis.unipd.it/handle/20.500.12608/103869

[1333] Pinzón-López S, Hsu W, Ebert D, Lin M, Kraume M, Seeberger P, Danglad-Flores J, “Residence time distribution in flow reactors for solid phase synthesis”, Chemical Engineering Journal, Vol. 527, pp. 171495, 2026. https://www.sciencedirect.com/science/article/pii/S1385894725123425

[1332] Kiermaier S, Nathrath P, Easton C, Greaves M, Kohl T, Stöber R, Hornung C, Schühle P, “Methanol steam reforming using In 2 O 3 /ZrO 2 coated catalytic static mixers (CSMs)”, Reaction Chemistry & Engineering, 2026. https://pubs.rsc.org/en/content/articlehtml/2025/re/d5re00391a

[1331] Johnston Z, Jugmohan J, Panayides J, Riley D, Johnston Z, Jugmohan J, Panayides J, Riley D, “Revitalised Hofmann carbylamine synthesis made possible with flow chemistry”, Reaction Chemistry & Engineering, 2026. https://pubs.rsc.org/en/content/articlehtml/2025/re/d5re00338e

[1330] Cruise A, Broersma R, Berg F, Baumann M, “Comparative Photochemical Flow Synthesis of Ketenimines via Hg-Lamp and UV-C LED Irradiation”, Reaction Chemistry & Engineering, 2026. https://pubs.rsc.org/en/content/articlehtml/2026/re/d5re00484e

[1329] Sánchez-Velandia J, Annatelli M, Tinajero C, Zanatta M, Sans V, Aricò F, García-Verdugo E, “A sweet flow: HMF production and in situ valorization into valuable nitrile-containing compound via telescopic flow chemistry”, Green Chemistry, Vol. 28, pp. 2715-2723, 2025. https://doi.org/10.1039/d5gc04694g

[1329] Coeuillas A, Ceuninck A, Chausset-Boissarie L, LEGROS J, Jubault P, Poisson T, “Process Intensified Continuous Flow Synthesis of Propofol”, ChemRxiv Organic Chemistry, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/69431bc4e3cb457e13439adc

[1328] Kowalska E, Carli B, Alemán J, Marzo L, Albrecht A, “Proton-Coupled Electron Transfer Processes in the Decarboxylative Synthesis of C-4 Substituted Chroman-2-Ones”, Advanced Synthesis & Catalysis, Vol. 367, 2025. https://doi.org/10.1002/adsc.70174

[1327] Castro-Esteban J, Dunlap JH, Schreib BS, Mirau P, Crouse CA, Swager TM, Baldwin LA, "Photoactive PFA Coating through Fluorophilic Interactions for Continuous Flow Photochemistry", JACS Au, Vol. 5, pp. 5965-5972, 2025. https://pubs.acs.org/doi/abs/10.1021/jacsau.5c00804

[1326] Johnson G, Corio S, Grayson J, Tibbetts J, Ballantyne G, Cao Q, Askey H, Bell-Tyrer J, Datsenko O, Graham M, Mykhailiuk P, Hirschi J, Cresswell A, "Direct α-C-H Heteroarylation of Unprotected Primary Amines", ChemRxiv Organic Chemistry, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/692ef4f5a10c9f5ca1c92c85?utm_source=www.synthesisspotlight.com&utm_medium=referral&utm_campaign=insert-delete-synthesise

[1325] Zhou Z, "Metallic electrocatalyzed C-N bond formation: new catalytic modes and technologies", Organic Chemistry Frontiers, 2025. https://pubs.rsc.org/en/content/articlehtml/2026/qo/d5qo01467k

[1324] Maiti R, Cauwenbergh R, Nath A, Guimarães ABR, Qin Y, Maseras F, Das S, "EDA Complex-Driven Desaturation of Heterocyclic Carbonyl Compounds Enabled by HFIP", Angewandte Chemie (International ed. in English), Vol .64, 2025. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.202514539

[1323] Cai Z, Liu L, Zou C, Jiang X, Wang G, He X, Zhuang W, Yang C, Yao Y, Sun X, Ye C, Hu WW, "Peptide synthesis: a review of classical and emerging methods", Biofabrication, Vol. 18, 2025. http://dx.doi.org/10.1088/1758-5090/ae1bdc

[1322] Bohara CS, Phull MS, Pabbaraja S, "Flow Process for Production of Crisaborole Using Organolithium Chemistry with Control over Impurity Formation", ACS omega, Vol. 10, pp. 55920-55931, 2025. https://pubs.acs.org/doi/abs/10.1021/acsomega.5c07458

[1321] Pople J, Dop R, Nicholls T, Fraser-Miller S, Cowell E, Neill D, Hasell T, "A poly (trisulfide) prodrug with antimicrobial activity", ChemRxiv Biological and Medicinal Chemistry, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/6919a942ef936fb4a2b78696

[1320] Lyall-Brookes G, Padgham A, Catlow J, Parveen F, Slater A, "Additive Free Aromatic Bromination in Flow", Organic Chemistry, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/691746dca10c9f5ca16855d9

[1319] Lin AJS, O'Brien NS, Florence A, Killen M, Frailey SL, Gilbert J, Sakoff JA, Amin MK, Castelloe EE, Chau N, Xue J, Robinson PJ, McCluskey A, "Substituted Benzylidene-3-Oxo-3,4-Dihydro-2H-Benzo[b][1,4]thiazine-6-Carboxylic Acid Analogs as Dynamin GTPase Inhibitors", ChemMedChem, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cmdc.202500377

[1318] Simões JCS, Costa BDP, B Rodrigues AC, Lopes SMM, Seixas de Melo JS, Pineiro M, Pinho E, Melo TMVD, "Synthetic Pathway to trans-A2B2-Porphyrins: From Oxime-Substituted Dipyrromethanes to Functionalized Macrocycles", The Journal of organic chemistry, Vol. 90, pp. 16060-16069, 2025.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.5c01907

[1317] Villafiorita-Monteleone F, Squeo B, Turco F, Boccia A, Schieroni A, Piovani D, Pasini M, Zappia S, "Sustainable Conjugated Polymer Synthesis in OPV: A Case Study from Conventional to Flow and Microwave-Assisted Synthesis", Chemistry Proceedings, pp. 24-24, 2025.
https://www.mdpi.com/2673-4583/18/1/24

[1316] Geraldo B, Silva R, Pastre J, Geraldo B, Silva R, Pastre J, "Fast metal-free CO 2 -mediated N -aryl amide synthesis from nitroarenes under continuous flow conditions", Reaction Chemistry & Engineering, 2026.
https://pubs.rsc.org/en/content/articlehtml/2026/re/d5re00446b

[1315] Fernandez L, Hölzel H, Ferreira P, Baggi N, Moreno K, Wang Z, Moth-Poulsen K, "Surfactant-enabled strategy for molecular solar thermal energy storage systems in water", Green chemistry : an international journal and green chemistry resource: GC, Vol. 27, pp. 14119-14130, 2025.
https://doi.org/10.1039/d5gc04357c

[1314] Ferrario S, Rossi S, Intini N, Bruno-Colmenarez J, Baumann M, Benaglia M, "Photocatalytic Addition of N-Oxazolidinone Radicals to Arenes and Heteroarenes in Batch and in Flow Mode", Organic letters, Vol. 27, pp.12276-12280, 2025.
https://pubs.acs.org/doi/abs/10.1021/acs.orglett.5c03828

[1313] Colarusso E, Giordano A, Chini MG, Bifulco G, Lauro G, "Marine Natural Products in Preclinical Cancer Studies: Ten Years of Advanced Total Synthesis", Marine drugs, Vol. 23, 2025.
http://dx.doi.org/10.3390/md23110430

[1312] Dupont W, Marcoux St-Pierre T, Boivin L, Mainville M, Leclerc M, Johnson P, Gendron D, "Synthesis of fluorinated phenylene-alkoxybenzothiadiazole polymer (PDTBTBz-2F anti) by DHAP", Polymer Chemistry, Vol. 16, pp.4996-5008, 2025.
http://dx.doi.org/10.1039/d5py00957j

[1311] Xiao W, Su H, Ma Y, Ma Y, Lu W, Wang L, Li G, Yuan M, Jiang L, Liang L, Liu X, "Integration of Machine Learning and Automated Synthesis for Accelerated Drug and Material Research", ChemistrySelect, Vol.10, 2025.
https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202504970

[1310] Ji Y, Ayesa U, Lévesque F, Qin, Y, "Application of Direct Inject Liquid Chromatography (DILC) as Real-Time Process Analytical Technology for Flow Reactions", Organic Process Research & Development, Vol. 29, pp. 2758-2763, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.5c00252

[1309] Sundén E, Karlsson S, Bauer C, Norrby P, "On the automated determination of pKa by NMR in DMSO : water mixtures", Reaction Chemistry & Engineering, 2025. https://pubs.rsc.org/en/content/articlehtml/2025/re/d5re00402k

[1308] Wellings D, Greenwood J, Zhang T, Wade J, Lin F, Li W, "Development of modern continuous flow solid phase peptide synthesis: chemistry, automation and sustainability impact", Australian Journal of Chemistry, 2025. https://connectsci.au/ch/article-abstract/78/12/CH25131/265984

[1307] Boivin R, Charette A, "Synthesis and Reactivity of Organozinc Reagents Derived From γ-Bromocrotonate Ester in Continuous Flow", Synthesis, 2025. https://www.thieme-connect.com/products/ejournals/abstract/10.1055/a-2722-7093

[1306] Tinajero C, Zanatta M, Sánchez-Velandia JE, García-Verdugo E, Sans V, "Reac-Discovery: an artificial intelligence-driven platform for continuous-flow catalytic reactor discovery and optimization", Nature communications, Vol. 16, pp .9062, 2025. https://www.nature.com/articles/s41467-025-64127-1

[1305] Amicosante L, Taylor D, Craciunescu L, Prentice AW, Zhakeyev A, Szabó B, Rosair GM, Paterson MJ, Dalgarno SJ, Vilela F, "Green-Light Photocatalysis: Borylated Benzo[c][1,2,5]thiadiazole (BTZ) Enables Phosphorylation of Quinoline Derivatives", The Journal of organic chemistry, Vol. 90, pp. 14081-14093, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.joc.5c01367

[1304] Nespoli L, Donzella S, Bigliardi M, Contente ML, Oliveira RPS, Romano D, Molinari F, "Cooperative Enhancement of Aldoxime Dehydratase Stability through Whole-Cell Immobilization and Flow Reactor Integration", Chembiochem, Vol. 26, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cbic.202500618

[1303] Doupsas N, Morse M, Powell M, Alimuddin M, Braganza J, Elleraas J, Wang W, Yanovsky A, Lee ML, Richardson PF, Grinias JP, "Development of a Direct Sampling Module for Compact Capillary Liquid Chromatography", Journal of separation science, Vol. 48, 2025. https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/jssc.70311

[1302] Khanna P, Mittal K, Bhutani C, Singh A, Talwar S, Khanna L, "A Recent Review on Aqua Mediated Synthesis of DHPMs via the Biginelli Reaction", Current Organic Chemistry, 2025. https://www.benthamdirect.com/content/journals/coc/10.2174/0113852728403897250831200808

[1301] Zidi Y, "Process and Formulation Optimization of a Continuous Microfluidic-Based Platform for High-Quality mRNA-LNP Production" Thesis, 2025. https://etheses.whiterose.ac.uk/id/eprint/37676/7/Zidi%20Yang%20PhD%20Thesis.pdf

[1300] Koos P, Polyzos A, O'Brien M, Ley IR, "Efficient Gas-Liquid Contact in Continuous Flow Synthesis: Palladium-Catalyzed Carbonylations using Teflon AF-2400", membranereactors.com, 2025. https://www.membranereactors.com/wp-content/uploads/2025/04/3.-Koos-P_2011_Efficient-Gas-Liquid-Contact.pdf

[1299] Shukla V, "Photochemical Concepts and Introduction in OS", Book, 2025. https://www.researchgate.net/profile/Vibhav-Shukla-2/publication/394951209_PHOTOCHEMICAL_CONCEPTS_AND_INTRODUCTION_IN_OS/links/68ad6294ca495d76982ff1f1/PHOTOCHEMICAL-CONCEPTS-AND-INTRODUCTION-IN-OS.pdf

[1298] Elholm JL, Baronas P, Gueben PA, Gneiting V, Hölzel H, Moth-Poulsen K, "An automated photo-isomerisation and kinetics characterisation setup for molecular photoswitches: Supporting information", Royal Society of Chemistry, 2025. https://pdfs.semanticscholar.org/be4c/daeac621afd595ffc1ffd9e0e36d3a8e58bc.pdf

[1297] Evans ST, "Automated synthesis of fluorinated β-D-mannuronic acid oligosaccharides to explore alginate structure-property relationships", Thesis, 2025. https://keele-repository.worktribe.com/OutputFile/1535691

[1296] Cauwenbergh R, "Development of Selective Light-Driven Strategies for Sustainable Organic Synthesis", Thesis, 2025. https://repository.uantwerpen.be/docman/irua/d7e730motoMa6

[1295] Currie BM, Van Vuuren E, Jugmohan J, "Natural acids as catalysts for the continuous flow production of the green solvent 2, 2, 5, 5-tetramethyltetrahydrofuran", Tetrahedron Green Chem, Vol. 7, 2025. https://www.sciencedirect.com/science/article/pii/S2773223125000287

[1294] Villafiorita-Monteleone F, Squeo BM, Turco F, "Sustainable Conjugated Polymer Synthesis in OPV: A Case Study from Conventional to Flow and Microwave-Assisted Synthesis", Chemistry Proceeding, 2025. https://sciforum.net/manuscripts/26719/manuscript.pdf

[1293] Stagel K, Rath K, Kathe PM, Schnürch M, Huber TM, Opitz AZ, Bica-Schroder K, "Electrochemical Generation of CO and Palladium-Catalyzed Carbonylation of Aryl Iodides in Flow", Angew. Chem. Int. Ed. Vol. 21, pp. 971-973, 2025. https://www.thieme-connect.com/products/ejournals/pdf/10.1055/a-2653-4892.pdf

[1292] John B, "Flow synthesis of organic monomers for fabrication of anion exchange membranes with enhanced properties in fuel cells and electrolysers", Thesis, 2025. https://openresearch.surrey.ac.uk/esploro/outputs/doctoral/Flow-synthesis-of-organic-monomers-for/991051666602346

[1291] Mei-Huei L, Yan-Ting K, Kim L, "p-nitrobenzyloxycarbonyl protective group as key to automated glycan assembly of neutral human milk oligosaccharides", Nature Communications, 2025. https://www.nature.com/articles/s41467-025-66557-3

[1290] Kalmer H, "Advanced Functional Macromolecular Architecture", Thesis, 2025. https://doi.org/10.5204/thesis.eprints.260690

[1289] Zhao Z, Samad J, Chabot C, Guinness S, Hawkins J, "Solid Acid-Enabled N-Boc Deprotection and Acetal Hydrolysis in the Synthesis of Vepdegestrant", Organic Process Research & Development, Vol. 29, pp. 2625-2635, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.5c00179

[1288] Arepally S, Gieman H, Wirth T, "Electrolyte-Controlled Regiodivergent Continuous Flow Electroselenocyclisations", Angewandte Chemie, Vol. 64, 2025. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.202509811

[1287] Wayment LE, Scott CD, Saunders LK, Payne P, Hatcher LE, Winter G, Williams B, Allan DR, Wilson CC, Warren MR, Robertson K, "Segmented milli-fluidic crystallisation of paracetamol with in situ single-crystal X-ray diffraction", Chemical Science, Vol. 16, pp. 13769–13773, 2025. https://doi.org/10.1039/d4sc08565e

[1286] Lyall-Brookes G, Padgham A, Slater A, "Flow chemistry as a tool for high throughput experimentation", Digital Discovery, Vol. 4, pp. 2364–2400, 2025. https://doi.org/10.1039/d5dd00129c

[1285] Crawford R, Broersma R, van den Berg F, Baumann M, "Photochemical Flow Synthesis of Trisubstituted Oxazoles Enabled by High-Power UV-B LED Modules", Organic Letters, Vol. 27, pp. 10152–10156, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.5c03241

[1284] McCormack A, Stephens J, "Continuous flow approaches to the synthesis of black hole Quenchers-2 (BHQ-2) and azo fluorescent quenchers", Results in Chemistry, Vol. 17, pp. 102658, 2025. https://www.sciencedirect.com/science/article/pii/S2211715625006411

[1283] Felgueiras A, Arnaut Z, Cebola J, Martins G, Rodrigues F, Bagnato V, de Oliveira K, Calvete M, Pereira M, “Unlocking BODIPY dye synthetic methodologies with 1H NMR monitoring and continuous flow techniques”, Dyes and Pigments, Vol. 243, pp. 113075, 2025.
https://doi.org/10.1016/j.dyepig.2025.113075

[1282] Luteran E, Aloisi M, Akerley W, Gilbertson R, “Workflow for evaluating enzyme immobilization and performance for continuous flow manufacturing”, Current Research in Biotechnology, Vol. 10, pp. 100327, 2025.
http://dx.doi.org/10.1016/j.crbiot.2025.100327

[1281] Raghuraman A, Spinney H, Wilson D, Villa C, Arora S, Majumder A, Hoz J, Paradkar M, Gies A, Suzuki M, Keaton A, Mukhopadhyay S, Bernales V, Masy J, Kennedy R, “Triarylborane-Catalyzed Ring-Opening Polymerization of Propylene Oxide: A Pathway to Superior Polyurethanes”, Industrial & Engineering Chemistry Research, 2025.
https://pubs.acs.org/doi/abs/10.1021/acs.iecr.5c01981

[1280] Heyer M, Zhang J, Sugisawa N, Laub J, Lapkin A, “Automated generation of mechanistic models for chemical process digital twins using reinforcement learning part I: Conceptual framework and equation generation”, Computers & Chemical Engineering, Vol. 202, pp. 109281, 2025.
https://doi.org/10.1016/j.compchemeng.2025.109281

[1279] Pozzi L, Gotti A, Fumagalli M, Citarella A, Fasano V, Paladino G, Ciriello U, Princiotto S, Annunziata F, Martinelli G, Sangiovanni E, Pinto A, Dell' Agli M, Passarella D, “Cannabizetol, a Novel Cannabinoid: Chemical Synthesis, Anti-inflammatory Activity and Extraction from Cannabis sativa L”, Journal of Natural Products, 2025.
http://dx.doi.org/10.1021/acs.jnatprod.5c00826

[1278] Annapureddy RR, Vasilev M, Kalikinidi NR, Shada ADR, Regati S, Shingare R, Gamage SMP, Sharique M, Arachchige S, Samankumara LP, Nasipireddy V, Gadi MR, Ganipisetti S, Naini SR, Munnuri S, Revu O, Gummidi L, Tenneti S, Bietsch J, Chen A, Gajula P, Tiwari V, Bandu R, Mamunooru M, Wang Z, Achanta S, Sirasani G, Gangu AS, Qu B, Senanayake CH, “Pentafluorohalobenzene (C6F5X) as Iodine or Bromine Transfer Reagents for Synthesis of Disubstituted Pyridines”, The Journal of Organic Chemistry, Vol. 90, pp. 13976–13983, 2025.
http://dx.doi.org/10.1021/acs.joc.5c01065

[1277] Cruise A, Baumann M, “Photochemical Synthesis of Ynones from Aryl Aldehydes and Sulfone-Based Alkynes”, The Journal of Organic Chemistry, Vol. 90, pp. 13175–13180, 2025.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.5c01804

[1276] Naik P, O'Neill P, Bruno-Colmenárez J, Baumann M, "Generation of Lithium Ethenolate by Lithiation of Tetrahydrofuran in Flow Mode", Organic Process Research & Development, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.5c00240

[1275] Velaga D, Arigela R, Kokatnur S, Jawlekar S, Budhdev R, Susarla N, Ramakrishnan S, Manda A, Komati S, Senadi G, Maruthapillai A, Bandichhor R, "Synthesis of Valproic Acid, Sodium Valproate, and Divalproex Sodium in Flow", Organic Process Research & Development, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.5c00233

[1274] Susarla N, Velaga D, Sardar M, Ghosh A, Gorle R, Jawlekar S, Budhdev R, Ramakrishnan S, "Continuous Crystallization of Atorvastatin Calcium at a Multitonnage Scale Using Dynamically Mixed Flow Reactors for Target Polymorph Control", Organic Process Research & Development, Vol. 29, pp. 1662–1676, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00478

[1273] Göhringer LPM, Ammini GD, Junkers T, "Understanding depolymerization kinetics of poly(butyl methacrylate) using flow chemistry", Faraday Discussions, 2025. http://dx.doi.org/10.1039/d5fd00049a

[1272] Khositanon C, Thakhiew P, Chinwanitcharoen C, Hiromori K, Weeranoppanant N, "Opportunities for automation in continuous dynamic flow separation", Reaction Chemistry & Engineering, 2025. https://pubs.rsc.org/en/content/articlehtml/2025/re/d5re00215j

[1271] Advincula R, Ivanov I, Vasudevan R, Kumar R, Christakopoulos P, Tsakinika M, Chen J, Carrillo J, Zhu Q, Sumpter B, "Harnessing Data and Control with AI/ML-driven Polymerization and Copolymerization", Faraday Discussions, 2025. https://pubs.rsc.org/en/content/articlehtml/2025/fd/d5fd00066a

[1270] Knupe-Wolfgang P, Hilt G, "The Transformation of Alkyl- and Aryl-Sodium Reagents with Simple Amides for the Direct Synthesis of Ketones", Synthesis, 2025. https://www.thieme-connect.com/products/ejournals/html/10.1055/a-2644-2500

[1269] Nickels S, Lee A, Vilela F, "EDA photochemistry using continuous flow", Journal of Flow Chemistry, 2025. https://link.springer.com/article/10.1007/s41981-025-00362-3

[1268] Pan Y, Qiao K, Shao B, Du X, Jiang W, Shi L, "FeCl3 catalyzed direct oxime etherification of inert C(sp^3)-H via photo-driven HAT in batch and continuous flow mode", Tetrahedron Letters, Vol. 170, pp. 155769, 2025. https://www.sciencedirect.com/science/article/pii/S0040403925003181

[1267] Pople J, Clarke O, Dop R, Nicholls T, Patel H, Bloch W, Jia Z, Fraser-Miller S, Neill D, Fothergill J, Hasell T, Chalker J, “A water-soluble poly(trisulfide) with antimicrobial activity”, ChemRxiv, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/68b0f5a123be8e43d6b1a71a

[1266] Uozumi Y, Yamada H, “Electrochemical Generation of CO and Palladium-Catalyzed Carbonylation of Aryl Iodides in Flow”, Synfacts, 2025. https://www.thieme-connect.com/products/ejournals/pdf/10.1055/a-2653-4625.pdf

[1265] Broumidis E, Díaz-Kruik P, Paradisi F, “Flow biocatalysis”, Nature Reviews Methods Primers, Vol. 5, 2025. https://www.nature.com/articles/s43586-025-00428-5

[1264] Simon K, Bandichhor R, Beesu M, Manisha I, Laudadio G, Kappe C, Oruganti S, Budhdev R, Cantillo D, “Versatile Flow Electrochemical Methodology for the Manufacturing of Pharmaceutically Relevant Sulfoxides and Sulfones from Thioethers”, ACS Electrochemistry, 2025. https://pubs.acs.org/doi/abs/10.1021/acselectrochem.5c00165

[1263] Rial-Rodriguez E, Kappe CO, “Automating Synthetic Organic Electrochemistry: Concepts and Advancements”, Chemistry-Methods, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cmtd.202500104

[1262] Zhang Y, “Sustainable Strategies for the Scalable Production of Widely Used Small Precursors”, Thesis, Durham University, 2025. http://etheses.dur.ac.uk/16222/

[1261] Wang Y, “Potassium Fluoride as a Green Base for Alkylation Reactions in Flow”, Thesis, The University of Auckland, 2025. https://researchspace.auckland.ac.nz/bitstreams/0b5e208e-4ffe-450b-843e-037a1657f30a/download

[1260] Shukla V, “Photochemical Concepts And Introduction In Os”, ResearchGate, 2025. https://www.researchgate.net/profile/Vibhav-Shukla-2/publication/394951209_PHOTOCHEMICAL_CONCEPTS_AND_INTRODUCTION_IN_OS/links/68ad6294ca495d76982ff1f1/PHOTOCHEMICAL-CONCEPTS-AND-INTRODUCTION-IN-OS.pdf

[1259] Tanbouza N, "Exploring novel synthesis and reactivity of diazo compounds and diazo surrogates: studies in batch and continuous flow", Thesis, 2025. https://hdl.handle.net/20.500.11794/167143

[1258] Raymenants F, "Taming gases in flow", Thesis, 2024. https://dare.uva.nl/search?identifier=96e25dde-7162-4484-890d-d4a785d71450

[1257] Ivanova M, Poisson T, Jubault P, Chausset-Boissarie L, Legros J, "Organic Synthesis in Flow", Comprehensive Organic Synthesis, 2024. https://doi.org/10.1016/B978-0-323-96025-0.00046-6

[1256] Kelly C, Compton J, Bryan M, Lambert K, Phelan J, "Going Green: Sustainable Alternatives in Organic Synthesis", Comprehensive Organic Synthesis, 2024. https://doi.org/10.1016/B978-0-323-96025-0.00100-9

[1255] Allen C, Dissanayake G, Lee C, Zhen J, "Enabling Technologies in High Throughput Chemistry", Comprehensive Organic Synthesis, Vol. 11, pp. 112- 175, 2024. https://www.sciencedirect.com/science/chapter/referencework/abs/pii/B9780323960250000612?via%3Dihub

[1254] Mann M, Nicholls T, Patel H, Lisboa L, Pople J, Pham L, Worthington M, Smith M, Yin Y, Andersson G, Gibson C, Esdaile L, Lenehan C, Coote M, Jia Z, Chalker J, "Sustainable gold extraction from ore and electronic waste", Nature Sustainability, 2025. https://www.nature.com/articles/s41893-025-01586-w

[1253] Ngo L, Huang Y, Chang C, Verma H, Lin Y, Kuo C, Liao Y, Kaun C, Chung R, Liu R, "High-efficiency and ultrastable solvent-free curable perovskite quantum dot inks for MicroLED and LED backlighting applications", Nano Energy, vol. 142, pp. 111230-111230, 2025. https://www.sciencedirect.com/science/article/pii/S2211285525005890

[1252] Zhang W, Hao L, Lai V, Corkery R, Jessiman J, Zhang J, Liu J, Sato Y, Politi M, Reish ME, Greenwood R, Depner N, Min J, El-Khawaldeh R, Prieto P, Trushina E, Hein JE, "IvoryOS: an interoperable web interface for orchestrating Python-based self-driving laboratories", Nature communications, vol. 16, no. 1, pp. 5182, 2025. https://www.nature.com/articles/s41467-025-60514-w

[1251] Schatz D , Averdunk C, Fritzius R, Wegner HA, "An Azobenzene-Based Liquid Molecular Solar Thermal (MOST) Storage System-Energy Carrier and Solvent", Small (Weinheim an der Bergstrasse, Germany), pp. e2502938, 2025. https://onlinelibrary.wiley.com/doi/abs/10.1002/smll.202502938

[1250] Kimpel J, Kim Y, Schomaker H, Hinojosa DR, Asatryan J, Martín J, Kroon R, Sommer M, Müller C, "Open-flask, ambient temperature direct arylation synthesis of mixed ionic-electronic conductors", Science advances, vol. 11, no. 19, pp. eadv8168, 2025. https://www.science.org/doi/abs/10.1126/sciadv.adv8168

[1249] Saunders JM, Nava EO, Li J ,Wong MJ, Freiberg KM, Lipshutz BH, "Flow-to-Flow Technology: Amide Formation in the Absence of Traditional Coupling Reagents Using DPDTC", ACS sustainable chemistry & engineering, vol. 13, no. 18, pp. 6646-6655, 2025. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.5c00914

[1248] Yao Y, Yang X, Aydoğan C, Town J, Pointer W, Haddleton, D, "Co(II)-Mediated Catalytic Chain Transfer Polymerization (CCTP) Carried Out Under Flow Reaction Conditions and Introducing a New Method for Online GPC Monitoring", ACS Publications, vol. 5, no. 3, pp. 311-322, 2025. https://pubs.acs.org/doi/abs/10.1021/acspolymersau.5c00020

[1247] Zhang P, Hao Y, Xie M, Wang H, Gao J, "Molecular craftsmanship: reforging peptide backbones for enhanced drug design", Drug discovery today, vol. 30, no. 7, pp. 104395, 2025. https://www.sciencedirect.com/science/article/pii/S1359644625001084?casa_token=rSO_hS8QUXEAAAAA:abafUYYExFj4rbK2hHxYuvQq59h0OcE9pj2rJBpo4S9EUxzvtWyepEPMealim3M2xlLi_Vl2HD_Q

[1246] Bazzoni M, Horbenko Y, Sabbagh N, Marchand A, Grochowska-Tatarczak M, Bernard A, Giraudeau P, Felpin F, Dumez J, "Fast Multidimensional Flow Nuclear Magnetic Resonance at High Field for Real-Time Reaction Monitoring and Flow Synthesis", Wiley Online Library, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cmtd.202400061

[1245] Donato E, Mayorquín-Torres MC, Puglisi A, Benaglia M, Adamo MFA, Stevens CV, "Tandem Cu(I)-Catalyzed Dipolar Cycloaddition-C-H Activation for the In-Flow Synthesis of N-Pyridyl-5-amino-1,2,3-triazole-4-carboxylates", Organic letters, vol. 27, no. 17, pp. 4423-4427, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.5c00453

[1244] Nourafkan E, Yang Z, Maamra M, Kis Z, "Advancing continuous encapsulation and purification of mRNA vaccines and therapeutics", European journal of pharmaceutical sciences : official journal of the European Federation for Pharmaceutical Sciences, vol. 212, pp. 107183, 2025. https://www.sciencedirect.com/science/article/pii/S0928098725001824

[1243] Corti M, Annunziata F, Colacicco A, Tamborini L, Molinari F, Contente ML, Pinto A, "Enzymatic Deglycosylation and Lipophilization of Soy Glycosides into Value-Added Compounds for Food and Cosmetic Applications", ACS omega, vol. 10, no. 12, pp. 12417-12424, 2025. https://pubs.acs.org/doi/abs/10.1021/acsomega.4c11325

[1242] Xu G, Wang Y, Yan M, Fang Z, Jindian D, Guo K, "Recent Advances in Annulation Reactions of α,β-Unsaturated Ketoximes for the Synthesis of Structurally Diversified Heterocycles", Advanced Synthesis & Catalysis, vol. 367, no. 11, 2025. https://advanced.onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202500259

[1241] Onisuru O, Alimi O, Fapojuwo D, Oseghale C, Meijboom R, "Push button, automated flow synthesis of biaryls and stilbenes using palladium-catalysed cross-coupling reactions", Chemical Engineering Research and Design, vol. 219, pp. 259-271, 2025. https://www.sciencedirect.com/science/article/pii/S0263876225003132?casa_token=SL7mZS2FXLUAAAAA:mnqWQbWuM216nWfpqqgG8btMh7xItLORKEF0rYOsAqL2nOpMOUZfEEnQa90mfr9b4vyh6C9saeyT

[1240] Burrell MJ, Varcoe JR, Whelligan DK, "Continuous-Flow Synthesis of Primary Vinylarenes via Inline Grignard Reagent Formation and Peterson Olefination", ACS omega, vol. 10, no. 17, pp. 17887-17897, 2025. https://pubs.acs.org/doi/abs/10.1021/acsomega.5c00823

[1239] Caviglia D, Schito Maria A, Penco S, Brullo C, Baumann M, "Synthesis and Biological Evaluation of Bicyclic Pyrazolines with Promising Antimicrobial Activities", ChemMedChem, pp. e2500144, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cmdc.202500144

[1238] Jorayev P, Soritz S, Sung S, Jeraal MI, Russo D, Barthelme A, Toussaint FC, Gaunt MJ, Lapkin AA, "Machine Learning-Driven Optimization of Continuous-Flow Photoredox Amine Synthesis", Organic process research & development, vol. 29, no. 6, pp. 1411-1422, 2025. https://doi.org/10.1021/acs.oprd.4c00533

[1237] Dejaegere A, Napoli A, Heugebaert TSA, Stevens CV, "Continuous Dihydrolevoglucosenone Recovery Using Commercial Membrane Technology", Organic process research & development, vol. 29, no. 4, pp. 1076-1082, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00494

[1236] Leuser H, Pithani S, Karlsson S, Aurell, C,Malmgren, M,Norrby, P,Putra, O,, "Access to Phenolic Pyridopyridazinones and Phthalazinones Using THP Ether-Directed Ortho Lithiation", Organic Process Research & Development, vol. 29, no. 5, pp. 1248-1263, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00541

[1235] Molnár M, Fődi T, Tatai J, Kun V, Balázs B, Gáti T, Dargó G, Nyerges M, "Continuous Flow for the Photochemical Synthesis of 3-Substituted Quinolines", Organic Process Research & Development, vol. 29, no. 5, pp. 1237-1247, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00534

[1234] Hewitt P, Dunlap J, Varshney V, Baldwin L, Simone D, "Scaling Helicene Synthesis via Photochemical Oxidation— A Comparison between Batch and Flow Reactors", Organic Process Research & Development, vol. 29, no. 6, pp. 1440-1445, 2025. http://dx.doi.org/10.1021/acs.oprd.5c00038

[1233] Dennehy O, Lynch D, Khandavilli U, Lawrence S, Collins S, Maguire A, Moynihan H, "Formation of the E-isomer as an impurity in the optimized flow synthesis of a Z-α-thio-β-chloroacrylamide; E/Z photoisomerization in batch and flow, and solid state characterization of both isomers", Reaction Chemistry & Engineering, 2025. https://pubs.rsc.org/en/content/articlehtml/2025/re/d5re00137d

[1232] Pascali G, Ryan P, Bhattacherjee D, Wirth T, Hunter L, "Electrochemical fluorination of proline derivatives", European Journal of Organic Chemistry, vol. 28, no. 24, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202500264?casa_token=HXMk7YQDkb8AAAAA:mphHhZfN3a5JD2kwKOtIArQ-uZjL6tS7Lk9klYYc1ieMqUORMWZsBH0nRO59yPTll0eVcOAHI8Ab-H9e

[1231] Kinsella A, Bell-Tyrer J, Stead D, Cresswell A, "Photoredox-HAT catalysed α-C-H alkylation of primary amines with vinyl phosphine oxides: New building blocks for spiropyrrolidine synthesis", Tetrahedron, vol. 185, pp. 134806, 2025. https://doi.org/10.1016/j.tet.2025.134806

[1230] Sharma UK, "Hybrid Enabling Technologies for Organic Synthesis", Chimia, vol. 79, no. 6, pp. 424-432, 2025. https://www.chimia.ch/chimia/article/view/2025_424

[1229] Jamieson P, Cronly D, Baumann M, "Generation and Use of Reactive Intermediates Exploiting Flow Technology", Chimia, vol. 79, no. 6, pp. 396-403, 2025. https://www.chimia.ch/chimia/article/view/2025_396

[1228] Kuo YT, Le Mai Hoang K, Seeberger PH, "Photolabile Linkers for Solid-Phase Synthesis of Oligosaccharides", Methods in molecular biology (Clifton, N.J.), vol. 2931, pp. 313-325, 2025. https://link.springer.com/content/pdf/10.1007/978-1-0716-4562-8.pdf#page=312

[1227] Kowalska E, Carli B, Puerta L ,Alemán J, Albrecht A, "Proton-Coupled Electron Transfer Processes in the Decarboxy-lative Synthesis of C-4 Substituted Chroman-2-ones", ChemRxiv Catalysis, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/685a63953ba0887c3349099a

[1226] Qin Y, Ayesa U, Lévesque F, Ji Y, "Novel Application of Direct Inject Liquid Chromatography (DILCTM) as Real-time Process Analytical Technology for Flow Reactions", Chemical Engineering and Industrial Chemistry, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/682b69963ba0887c33bbbef4

[1225] Pan Y, Qiao K, Shao B, Du X, Jiang, W Shi, "Direct Oxime Etherification of Inert C (Sp3)-H Via Photo-Driven Hat in Batch or Continuous Flow Mode", papers.ssrn.com, 2025. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5309732

[1224] Felgueiras A, Arnaut Z, Martins G, Rodrigues F, Bagnato V, Oliveira K, Calvete M, Pereira M, "Unlocking Bodipy Dye Synthetic Methodologies with 1h-Nmr Monitoring and Continuous Flow Techniques", Available at SSRN , 2025. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5260538

[1223] Pecora D, "Development Of Flow Processes For The Efficient And Sustainable Preparation Of High Value Chemicals", Thesis, 2025. https://air.unimi.it/handle/2434/1166642

[1222] Carlucci C, Jiménez-Ramirez A, "Biofuel from seeds, extraction oil and its efficiency", PLANTS: Physiology, crop production, and stress responses, pp. 94-115, 2025. https://downloads.editoracientifica.com.br/articles/250419151.pdf

[1221] Moschen L, "Selective grignard addition to dialkyl oxalates: A flow chemistry approach", Thesis, 2025. https://irf.fhnw.ch/entities/publication/9218e2a2-594b-4323-afea-5d57c2fcd6d1

[1220] Gao J, BEng MR, "Construction Of A Novel Continuous Flow Reactor For Solid-State Photochemistry", Thesis, 2025. https://research.nottingham.edu.cn/files/1630243777/Thesis_Jiarui_V3.pdf

[1219] Bartholomew GL, Kim SF, Oyamada Y, Sbordone F, Carroll JA, Jurczyk JE, Yeung CS, Barner-Kowollik C, Sarpong R, "Phototransposition of Indazoles to Benzimidazoles: Tautomer-Dependent Reactivity, Wavelength Dependence, and Continuous Flow Studies", Angewandte Chemie (International ed. in English), pp. e202423803, 2025. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202423803

[1218] Woodliffe J, Myszczynski M, Fay M, Molinar-Díaz J, Lester E, Robertson K, "The impact of binders on magnetic framework composite pellets for CO2 capture", Chemical Engineering Journal, vol. 510, pp. 161641-161641, 2025. https://www.sciencedirect.com/science/article/pii/S1385894725024635

[1217] Le T, Lim C, Fisk I, Tran N, Hessel V, Robertson K, "Sustainable fertiliser mesh, '4D'-precision engineered by flow chemistry: minimising agrochemical pollution", Green Chemistry, vol. 27, pp. 696-715, 2024. https://doi.org/10.1039/d4gc04833d

[1216] Oliva M, Pillitteri S, Schörgenhumer J, Saito R, Van der Eycken EV, Sharma UK, "Bromine radical release from a nickel-complex facilitates the activation of alkyl boronic acids: a boron selective Suzuki-Miyaura cross coupling", Chemical science, vol. 15, pp. 17490-17497, 2024. https://doi.org/10.1039/d4sc04196h

[1215] Saunders JM, Rodriguez KD, Lammert R, Yirak J, Iyer KS, Lipshutz BH, Wong MJ, "Recent Green and Sustainable Pd-Catalyzed Aminations", ChemSusChem, pp. e202500184, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cssc.202500184

[1214] Ammini G, Weerarathna L, Junkers T, "Continuous Flow Block Copolymer Nanoaggregate Synthesis and Their Flow Dialysis Purification", Chemistry-Methods, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cmtd.202500025

[1213] Crawford R, Baumann M, "Continuous Flow Technology Enabling Photochemistry", Advanced Synthesis & Catalysis, 2025. https://advanced.onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202500133

[1212] Coursari D, Efstathiou S, Al-Shok L, Hall M, Eissa A, Liarou E, Haddleton D, "Optimisation of azide-alkyne click reactions of polyacrylates using online monitoring and flow chemistry", Polymer Chemistry, vol. 16, pp. 1065-1071, 2025. https://www.sciencedirect.com/org/science/article/pii/S1759995425000294

[1211] Marchini V, Paradisi F, "Self-sufficient biocatalytic cascade for the continuous synthesis of danshensu in flow", Applied Microbiology and Biotechnology, vol. 109, 2025. https://doi.org/10.1007/s00253-025-13407-3

[1210] Zhang J, Semochkina D, Sugisawa N, Woods D, Lapkin A, "Multi-objective reaction optimization under uncertainties using expected quantile improvement", Computers & Chemical Engineering, vol. 194, pp. 108983, 2025. https://doi.org/10.1016/j.compchemeng.2024.108983

[1209] Mata A, Fraipont C, Hervieux C, Giacchetti L, Hadj-Sassi O, Bogicevic A, Marichez V, Hermans, T, "Nonclogging Liquid-Walled Continuous Flow Reactors", Organic Process Research & Development, vol. 29, pp. 472-478, 2025. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00459

[1208] Loftus A, De Gregorio R, Baumann M, "Continuous flow synthesis of alkynes from isoxazolones", Organic & biomolecular chemistry, vol. 23, pp. 1314-1319, 2025. https://doi.org/10.1039/d4ob01772b

[1207] Londhe G, Bokade, V,Gnanaprakasam, B, "Continuous Flow β-Zeolite Catalysed Regioselective Alkylation of Naphthols Using Alcohols for Synthesis of Peroxynaphthalen-2(1H)-one, Azidonaphthalen-2(1H)-one and Fluoronaphthalen-2(1H)-one Derivatives", Asian Journal of Organic Chemistry, 2025. https://aces.onlinelibrary.wiley.com/doi/abs/10.1002/ajoc.202400658

[1206] Bonner A, García-Lacuna J, Baumann M, "Photocarboxylation of Arylated 2H-Azirines Exploiting Continuous Flow Technology", European Journal of Organic Chemistry, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202500177

[1205] Bandu Jamdade A, Bamayya Swami G, Vishambar Sutar D, Nair P, Gnanaprakasam B, "Ruthenium-Zeolite Catalyzed Dehydrative N-Benzylation of Amides for the Construction of Macrolactams Under Continuous Flow", European Journal of Organic Chemistry, vol. 28, 2025. https://doi.org/10.1002/ejoc.202401365

[1204] Yaseen M, Oelgemöller M, "Photochemical Acylation of 1,4-Naphthoquinone with Aldehydes Under Continuous-Flow Conditions", Organics, vol. 6, pp. 9, 2025. https://www.mdpi.com/2673-401X/6/1/9

[1203] Am A, Trapiella-Alfonso L, Lescot C, Doan B, d'Orlyé F, Varenne A, "From design to formulation of peptide building blocks for nanotheranostic applications: a synergistic multidisciplinary investigation", Comptes Rendus Chimie, vol. 28, pp. 239-263, 2025. https://comptes-rendus.academie-sciences.fr/chimie/item/CRCHIM_2025__28_G1_239_0/

[1202] Gambacorta G, Teo Q, Baxendale I, "2,4,6-Trichloro-cyclohexa-2,5-dienone", Molbank, vol. 2025, pp. M1969, 2025. https://www.mdpi.com/1422-8599/2025/1/M1969

[1201] Heyer M, Zhang J, Sugisawa N, Laub J, Lapkin A, "Automated Generation of Mechanistic Models for Chemical Process Digital Twins using Reinforcement Learning - Part I: Conceptual Framework and Equation Generation", ChemRxiv Chemical Engineering and Industrial Chemistry, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/67dd80526dde43c908bdf426

[1200] Rajendran S, Kogler S, Kögl P, Braje W, Ötvös S, Kappe C, "Sustainable and Scalable Amidations in Water Using Continuous Slurry-Flow Technology", ChemRxiv Organic Chemistry, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/67cef18e6dde43c9084684a7

[1199] Schatz D, Averdunk C, Fritzius R, Wegner, H, "An Azobenzene-Based Liquid Molecular Solar Thermal (MOST) Storage System - Energy Carrier and Solvent", ChemRxiv Energy, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/67b88ee06dde43c908ddc91a

[1198] Tinajero C, Zanatta M, García-Verdugo E, Sans, V,, "Artificial intelligence-driven platform for catalytic reactor discovery and optimization applied to carbon dioxide valorization", ChemRxiv Chemical Engineering and Industrial Chemistry, 2025. https://chemrxiv.org/engage/chemrxiv/article-details/67b59e446dde43c9088c60d8

[1197] Benitez-Mateos AI, Lim D, "Biocatalytic Reduction of Heterocyclic Imines in Continuous Flow with Immobilized Enzymes", ACS Sustainable Chemistry & Engineering, 2025. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.4c09676

[1196] Baker JR, Hamilton M, Russell CC, O'Brien NS, "An Expedient Flow Chemistry Approach to Substituted 1, 4-Dimethylcarbazoles", ChemistrySelect, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202500249

[1195] Sangachin MH, "Strategies for Well-Defined Conjugated Polymers via DHAP", Thesis, 2025. https://corpus.ulaval.ca/bitstreams/b7336a5d-1b13-49c8-8f65-f7631a05d683/download

[1194] Gambacorta G, Han T, Baxendale I,, "2,4,6-trichloro-cyclohexa-2,5-dienone", Preprint, 2025. https://www.preprints.org/frontend/manuscript/62569a1ec20ca5e61a21d4bd7a114cce/download_pub

2024

Year Total: 131

[1193] Marques, DL, Piccirillo, G, Rodrigues, FMS, Aroso, RT, Dias, LD, da Silva, GJ, Calvete, MJF, Pereira, MM, "Advancing continuous flow techniques in effective trimethoprim oxidation: combatting bacterial resistance in wastewater," Chemical communications (Cambridge, England), vol. 61, no. 3, pp. 480-483, 2025. https://pubs.rsc.org/en/content/articlehtml/2025/cc/d4cc04504a

[1192] Nespoli, L, Donzella, S, Moro, E, Mafezoli, J, Contente, M, Romano, D, Molinari, F, "Oxidation of benzyl alcohol derivatives into carboxylic acids with a new Acetobacter malorum strain: boosting the productivity in a continuous flow system," Molecular Catalysis, vol. 571, pp. 114698-114698, 2025. https://www.sciencedirect.com/science/article/pii/S2468823124008800

[1191] Currie, B, Neyt-Galetti, N, Olivier, T, Merwe, P, Dibokwane, L, Reinhardt, A, Wyk, L, Panayides, J, Riley, D, "Synthesis of an 8-membered oxygen-containing benzo-fused heterocycle using flow technologies - an exercise in undertaking research with sustainability as a driver.," RSC Sustainability, 2025 https://pubs.rsc.org/en/content/articlehtml/2025/su/d4su00528g

[1190] Du, C, Padgham, A, Slater, A, Zhang, L, "Efficient flow synthesis of a Star of David [2] catenane and a pentafoil knot," Chem, pp. 102328, 2024. https://www.cell.com/chem/abstract/S2451-9294(24)00496-0

[1189] Morvan, J, Kuijpers, KPL, Fanfair, D, Tang, B, Bartkowiak, K, van Eynde, L, Renders, E, Alcazar, J, Buijnsters, PJJA, Carvalho, MA, Jones, AX, , "Electrochemical C-O and C-N Arylation using Alternating Polarity in flow for Compound Libraries," Angewandte Chemie (International ed. in English), pp. e202413383, 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.202413383

[1188] Bonciolini, S, Pulcinella, A, Leone, M, Schiroli, D, Ruiz, AL, Sorato, A, Dubois, MAJ, Gopalakrishnan, R, Masson, G, Della Ca', N, Protti, S, Fagnoni, M, Zysman-Colman, E, Johansson, M, Noël, T, , "Metal-free photocatalytic cross-electrophile coupling enables C1 homologation and alkylation of carboxylic acids with aldehydes," Nature communications, vol. 15, no. 1, pp. 1509, 2024. http://dx.doi.org/10.1038/s41467-024-45804-z

[1187] Woodliffe, J, Molinar-Díaz, J, Holland, B, Hussein, O, Lester, E, Robertson, K, "Magnetic framework composites via continuous flow syntheses for CO2 capture," Chemical Engineering Journal, vol. 503, pp. 158445-158445, 2024. https://www.sciencedirect.com/science/article/pii/S1385894724099364

[1186] Rakhatkyzy, M, Askar, Z, Akhmetzhanova, Z, Nuraje, N, Shah, D, "Innovative microwave and continuous flow synthesis of 5-Hydroxymethylfurfural from Biomass-Derived Resources using Deep eutectic solvents," Chemical Engineering Journal, vol. 499, pp. 156304-156304, 2024. https://www.sciencedirect.com/science/article/pii/S1385894724077957

[1185] Dunlap, JH, Feng, H, Pioch, T, Volk, AA, Giordano, AN, Reidell, A, Tran, LD, Hampton, CM, Luo, SL, Rao, R, Crouse, CA, Swager, TM, Baldwin, LA, "Continuous Flow Chemistry and Bayesian Optimization for Polymer-Functionalized Carbon Nanotube-Based Chemiresistive Methane Sensors," ACS applied materials & interfaces, vol. 16, no. 49, pp. 68181-68196, 2024. https://pubs.acs.org/doi/abs/10.1021/acsami.4c14279

[1184] Ellis, S, Buchard, A, Junkers, T, "Depolymerisation of poly(lactide) under continuous flow conditions," Chemical science, vol. 16, no. 1, pp. 211-217, 2024. https://doi.org/10.1039/d4sc05891g

[1183] Santiago-Arcos, J, Velasco-Lozano, S, Diamanti, E, Benítez-Mateos, A, Grajales-Hernández, D, Paradisi, F, López-Gallego, F, "Optimized Spatial Configuration of Heterogeneous Biocatalysts Maximizes Cell-Free Biosynthesis of ω-Hydroxy and ω-Amino Acids," ACS Sustainable Chemistry & Engineering, vol. 12, no. 25, pp. 9474-9489, 2024. https://doi.org/10.1021/acssuschemeng.4c02396

[1182] Liu, R, Wang, Z, Yang, W, Cao, J, Tao, S, "Self-optimizing Bayesian for continuous flow synthesis process," Digital Discovery, 2024. https://doi.org/10.1039/d4dd00223g

[1181] Ruiz, A, Pijper, B, Linares, M, Cañellas, S, Protti, S, Fagnoni, M, Alcázar, J, "Automated One-pot Library Synthesis with Aldehydes as Radical Precursors," Book, 2024 https://doi.org/10.26434/chemrxiv-2024-xcjgq

[1180] Plevová, K, Michelet, V, Antoniotti, S, "Small gold nanoparticles for tandem cyclization/reduction and cyclization/hydroalkoxylation reactions," Communications chemistry, vol. 7, no. 1, pp. 248, 2024. https://www.nature.com/articles/s42004-024-01336-7

[1179] Cronly, D, Smyth, M, Moody, TS, Wharry, S, Bruno-Colmenarez, J, Twamley, B, Baumann, M, "Structurally Diverse Nitrogen-Rich Scaffolds via Continuous Photo-Click Reactions," Organic Letters, vol. 26, no. 49, pp. 10559-10563, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.4c03953

[1178] Crawford, R, Ortin, Y, Twamley, B, Baumann, M, "Direct Photochemical Synthesis of Substituted Benzo[b]fluorenes," Organic letters, vol. 26, no. 48, pp. 10364-10368, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.4c03978

[1177] Ponce, I, Sujanani, R, Moon, J, Urueña, J, Hawker, C, Segalman, R, "3D Printing of Functional Hydrogel Devices for Screenings of Membrane Permeability and Selectivity," ACS Applied Polymer Materials, 2024. https://pubs.acs.org/doi/abs/10.1021/acsapm.4c02732

[1176] Brassart, L, Manneveau, M, Poisson, T, Legros, J, Huez, P, Forcato, M, Jubault, P, Chausset-Boissarie, L, "Continuous Flow Synthesis of α-Chloroketones from Esters," Advanced Synthesis & Catalysis, 2024. https://advanced.onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202401438

[1175] O'Hanlon, D, Davin, S, Glennon, B, Baumann, M, "Metal-free [2+2]-photocycloaddition of unactivated alkenes enabled by continuous flow processing," Chemical communications (Cambridge, England), 2024. http://dx.doi.org/10.1039/d4cc06000h

[1174] Velichko, V, Moi, D, Soddu, F, Scipione, R, Podda, E, Luridiana, A, Cambie, D, Secci, F, Cabua, MC, "Two-step continuous flow-driven synthesis of 1,1-cyclopropane aminoketones," Chemical communications (Cambridge, England), 2024. http://dx.doi.org/10.1039/d4cc04089a

[1173] Pillitteri, S, Van der Eycken, EV, Sharma, UK, "Recent developments in the photoredox catalyzed Minisci-type reactions under continuous flow," Chemical communications (Cambridge, England), vol. 61, no. 1, pp. 13-22, 2024 https://pubs.rsc.org/en/content/articlehtml/2025/cc/d4cc04801f

[1172] Yaseen, M, Guo, Z, Junk, P, Oelgemöller, M, "[2+2]-Photocycloadditions of 1,4-Naphthoquinone Under Batch and Continuous-Flow Conditions," Molecules, vol. 29, no. 24, pp. 5920, 2024. https://www.mdpi.com/1420-3049/29/24/5920

[1171] Browne, L, Hancox, C, Helin, S, Todd, P, Vincent, K, "Riboflavin with H2-driven or Electrochemical Recycling is a Cheap Cofactor System for Supporting Biocatalytic Alkene Reduction," ChemCatChem, 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202401578

[1170] Javdani, A, Ivanushkin, G, Deneyer, A, Dusselier, M, "Monitoring and controlling zeolite synthesis via reactor-based solutions: a fed-batch strategy," Reaction chemistry & engineering, 2024. http://dx.doi.org/10.1039/d4re00440j

[1169] Tanbouza, N, Caron, L, Biniaz, M, Marcoux, A, Ollevier, T, "Metal-Free Oxidation of Acceptor-Donor Acylhydrazones into Diazo Compounds Using Phenyl Iododiacetate," The Journal of organic chemistry, vol. 89, no. 22, pp. 16600-16612, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.joc.4c01893

[1168] Charvet, S, Jacob, C, Dietsch, A, Tintori, G, Echeverria, P, Vantourout, J, "Electrochemical Cyclopropanation of 1, 3-Dialkyl Bromides," Organic Process Research & Development, vol. 28, no. 11, pp. 4011-4017, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00302

[1167] Nagarajan, S, Barathkumar, J, Gupta, R, "Recent Developments in the Photochemical Reactions of N-Heterocyclic Compounds," European Journal of Organic Chemistry, vol. 27, no. 48, 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202401195

[1166] Lehmann, H, Ruppen, T, Oswald, S, Ye, N, Tian, X, Gu, X, Dai, C, Fairhurst, R, "Development of a Safe and Efficient Continuous Flow Method for the Synthesis of 3-Difluoromethoxypyridine Derivatives," Helv. Chim. Acta, 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/hlca.202400182

[1165] Hongnak, S, Vorasin, O, Aunbamrung, P, Techapanalai, S, Tiyasakulchai, T, Sonwong, W, Jaito, N, Thongpanchang, C, Whungsinsujarit, S, Srikun, O, Srimongkolpithak, N, , "From Batch to Continuous Flow Synthesis in Enzymatic Process Towards Molnupiravir," Chemistry, an Asian journal, pp. e202401134, 2024. https://aces.onlinelibrary.wiley.com/doi/abs/10.1002/asia.202401134

[1164] Jorayev, P, Soritz, S, Sung, S, Jeraal, M, Russo, D, Barthelme, A, Toussaint, F, Gaunt, M, Lapkin, A, , "Machine learning-driven optimisation of continuous flow photoredox amine synthesis," ChemRxiv Organic Chemistry, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/675c1e15f9980725cff3a51c

[1163] Aloisi, M, Luteran, E, Harper, J, Peterson, P, "Cost-efficient temperature mediation of DPMS synthesis in flow using continuous flow chemistry," OSTI.GOV, 2024 https://www.osti.gov/biblio/2377683

[1162] Lyall-Brookes, G, "Dichloromethylation of Nitrobenzene Derivatives via Vicarious Nucleophilic Substitution of Hydrogen with Trichloromethyl Carbanions in Flow," Thesis, 2024.
http://etheses.dur.ac.uk/15863/1/George_Lyall-Brookes_Thesis.pdf?DDD7+

[1161] Mortimer, JE, "The Photochemical Reactivity of Conjugated Enolates," Thesis, 2024.
https://research-information.bris.ac.uk/files/431044084/Final_Thesis.pdf

[1160] Currie, BM, "Synthesis of an 8-Membered Oxygen-Containing Benzo-Fused Heterocycle Using Flow Technologies," Thesis, 2024.
https://search.proquest.com/openview/a7725dd70c32400fa613f34de0338397/1?pq-origsite=gscholar&cbl=2026366&diss=y

[1159] Kiss, K, "Novel Approaches for Cancer Therapy: Peptides and New Iv: Applicable Formulations to Solve Low Bioavailability," Thesis, 2024.
https://search.proquest.com/openview/9a4a731f26258c1e006abbfe3a58f5b4/1?pq-origsite=gscholar&cbl=2026366&diss=y

[1158] Paul, S, "Synthesis of Saturated Building Blocks: From Conformationally Rigid Bicycles to Alkyl Boronates," Thesis, 2024.
https://www.proquest.com/openview/270c49e6c75f48b8e1969f0080ac9687/1?pq-origsite=gscholar&cbl=18750&diss=y

[1157] Van Coillie, L, "paraformaldehyde slurry mediated α-hydroxymethylation reactions in continuous flow," Thesis, 2024.
https://libstore.ugent.be/fulltxt/rug01/003/200/705/rug01-003200705_2024_0001_ac.pdf

[1156] Liu, Y, "Boron Enabled Photosensitized [2+ 2]-Cycloadditions: Advances in the Synthesis of Borylated Cyclobutanes," Thesis, 2024.
https://doi.org/10.1039/D3SC06600B

[1155] Perinić, H, "Photochemical transformations of various biologically active resveratrol derivatives in batch and flow reactors," Thesis, 2024
https://www.mdpi.com/1420-3049/29/1/201#

[1154] N. Reis Conceição, K. Mahmudov, M. Guedes da Silva, A. Pombeiro, “Alkane functionalization: Recent advances,” Coordination Chemistry Reviews, pp. 216175, vol. 522, 2024.
https://www.sciencedirect.com/science/article/pii/S0010854524005216

[1153] D. Taylor, J. Tobin, L. Amicosante, A. Prentice, M. Paterson, S. Dalgarno, N. McKeown, F. Vilela, “Immobilisation of benzo[c][1,2,5]thiadiazole (BTZ) within polymers of intrinsic microporosity (PIMs) for use in flow photochemistry,” Journal of Materials Chemistry A, vol. 12, no. 18, pp. 10932-10941, 2024.
https://pubs.rsc.org/en/content/articlehtml/2024/ta/d4ta01009d

[1152] M. Regnier, C. Vega, D. I. Ioannou, T. Noël, "Enhancing electrochemical reactions in organic synthesis: the impact of flow chemistry," Chemical Society reviews, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/cs/d4cs00539b

[1151] S. Beduru, D. B. Huple, A. G. Kutateladze, "Complexity-Building Exhaustive Dearomatization of Benzenoid Aromatics within an ESIPT-Initiated Three-Step Photochemical Cascade," Angewandte Chemie (International ed. in English), pp. E202415176, 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202415176

[1150] T. Patra, S. Arepally, J. Seitz, T. Wirth, "Electrocatalytic continuous flow chlorinations with iodine(I/III) mediators," Nature communications, pp. 6329, vol. 14, no. 17, 2024. https://www.nature.com/articles/s41467-024-50643-z

[1149] A. Mudugamuwa, U. Roshan, S. Hettiarachchi, H. Cha, H. Musharaf, X. Kang, Q. T. Trinh, H. M. Xia, N.T. Nguyen, J. Zhang, "Periodic Flows in Microfluidics," Small (Weinheim an der Bergstrasse, Germany), pp. E2404685, 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/smll.202404685

[1148] R. Nallagonda, R. Quan, L. Grant, C. Jorge, S. Yip, D. Wu, T. Dhar, J. Kempson, A. Mathur, M. Oderinde, "Unveiling the Stereoselectivity Aspects of Metallaphotoredox Decarboxylative Arylation," ACS Catalysis, pp. 13439-13450, vol. 14. No. 17, 2024. https://pubs.acs.org/doi/abs/10.1021/acscatal.4c03818

[1147] S. Marchetti, C. Tinajero, G. Palmara, E. García-Verdugo, I. Roppolo, M. Zanatta, V. Sans, "High-resolution 3D printable inks based on functional polymeric ionic liquids for applications in carbon dioxide valorization," Additive Manufacturing, pp. 104304, vol. 89, 2024. https://www.sciencedirect.com/science/article/pii/S2214860424003506

[1146] S. Gillhuber, J. O. Holloway, K. Mundsinger, J. A. Kammerer, J. R. Harmer, H. Frisch, C. Barner-Kowollik, P. W. Roesky, "Visible light photoflow synthesis of a Cu(ii) single-chain polymer nanoparticle catalyst," Chemical science, pp. 15280-15290, vol.15, no. 37, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/sc/d4sc03079f

[1145] F. Rodrigues, V. Masliy, Y. Hryhoryev, L. Dias, R. Carrilho, M. Calvete, A. Takács, G. Mikle, L. Kollár, M. Pereira, "Gas-liquid tubular continuous-flow Pd-catalysed aminocarbonylation process for scalable synthesis of carboxamides," Catalysis Science & Technology, pp. 4245-4255, vol. 14, no. 15, 2024. http://dx.doi.org/10.1039/d4cy00633j

[1144] E. Graziano, P. Natho, M. Andresini, F. Mastrolorito, I. Mahdi, E. Mesto, M. Colella, L. Degennaro, O. Nicolotti, R. Luisi, “1-Oxa-2,6-Diazaspiro[3.3]heptane as a New Potential Piperazine Bioisostere - Flow-Assisted Preparation and Derivatisation by Strain-Release of Azabicyclo[1.1.0]butanes,” Advanced Synthesis & Catalysis, 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202400781

[1143] S. Michałek, A. M. Maj, L. Gurba-Bryśkiewicz, W. Maruszak, K. Wiśniewski, M. Zagozda, M. Stypik, K. Dubiel, M. Wieczorek, “Development of the telescoped flow Pd-catalyzed aerobic alcohol oxidation/reductive amination sequence in the synthesis of new phosphatidylinositide 3-kinase inhibitor (CPL302415),” RSC advances, pp. 28516-28523, vol. 14, no. 39, 2024.

https://pubs.rsc.org/en/content/articlehtml/2024/ra/d4ra04923c

[1142] J. Kwon, N. Y. Ko, J. W. Lim, “Characterization of Continuous Neutralization of a Chemical Warfare Agent and Its Simulants,” ACS omega, pp. 38583-38590, vol. 9, no. 37, 2024.
https://pubs.acs.org/doi/abs/10.1021/acsomega.4c04000

[1141] A. Ładosz, A. Friedli, A. Lhuillery, G. Rueedi, “Carbonylations in flow: tube-in-tube reactor vs. gas-liquid slug flow,” Reaction Chemistry & Engineering, 2024.
https://pubs.rsc.org/en/content/articlehtml/2024/re/d4re00287c

[1140] K. Okamoto, T. Ueno, Y. Hato, Y. Kawaguchi, T. Hakogi, S. Majima, T. Ohara, M. Hagihara, N. Tanimoto, T. Tsuritani, “Stereoselective Synthesis of Baloxavir Marboxil Using Diastereoselective Cyclization and Photoredox Decarboxylation of l-Serine,” The Journal of organic chemistry, pp. 9937-9948, vol. 89, no. 14, 2024.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.4c00799

[1139] O. Revu, M. Vasilev, P. Gajula, N. Kalikinidi, M. Gadi, H. Zhao, S. Gamage, G. Hibbert, O. Ravikumar, L. Gummidi, V. Nasipireddy, A. Vinodini, J. Bietsch, Z. Wang, J. Brown, G. Sirasani, J. Armstrong, A. Gangu, B. Qu, C. Senanayake, “Development of a Safer Continuous Flow Process for B2(OH)4-Mediated Chemoselective Reduction of Nitroarenes to Anilines,” Organic Process Research & Development, 2024.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00267

[1138] Hodgin, G;Burns, M;Deadman, B;Roberts, C;Hii, K;Nguyen, B; Reactivities of N-Nitrosamines against Common Reagents and Reaction Conditions, Organic Process Research & Development, 2024.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00217

[1137] P. Brady, K. Harper, B. Sorensen, S. Greszler, C. Lai, A. Florjancic, G. Zhao, B. Shelat, G. Storer, R. Henry, T. Hansen, "Stereoselective Synthesis of ABBV-992 Enabled by a Flow Diazotization and a Partial Reduction of a Pyridone," Organic Process Research & Development, pp. 3152-3160, vol. 28, no. 9, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00077

[1136] I. Patel, G. Ganesan, S. Jain, "Catalytic Advancements: Optimizing Pd-Based Cross-Coupling Reactions Through Flow Chemistry," Organic Process Research & Development, pp. 3464-3508, vol. 28, no.9, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00027

[1135] M. Agnes, A. Santagata, D. Veclani, A. Venturini, M. Monari, P. Dambruoso, I. Manet, "Structure-Based Design and in-Flow Synthesis of Aromatic Endoperoxides Acting as Oxygen Releasing Agents," European Journal of Organic Chemistry, 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202400861

[1134] F. Minuto, A. Basso, M. Baumann, "Expedited access to β-lactams via a telescoped three-component Staudinger reaction in flow," Journal of Flow Chemistry, 2024. https://link.springer.com/article/10.1007/s41981-024-00333-0

[1133] S. Green, H. Broderick, K. Wheelhouse, J. Hallett, P. Miller, J. Bull, "Continuous preparation and reaction of nonaflyl azide (NfN3) for the synthesis of organic azides and 1,2,3-triazoles," Journal of Flow Chemistry, pp. 559-568, vol. 14, no. 3, 2024. https://link.springer.com/article/10.1007/s41981-024-00327-y

[1132] S. Patrick, J. Bull, P. Miller, M. Crimmin, "A Continuous Flow Process for the Defluorosilylation of HFC-23 and HFO-1234yf," ChemRxiv Organic Chemistry, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/66d075a0a4e53c4876039c57

[1131] K. Lyon, C. Pan, S. Sathiyalingam, Y. Wu, J. Brandt, "Continuous photo-flow synthesis of heterohelicenes," ChemRxiv Materials Chemistry, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/66ddfa12cec5d6c14286ffb4

[1130] J. Zhang, D. Semochkina, N. Sugisawa, D. Woods, A. Lapkin, "Multi-objective reaction optimization under uncertainties using expected quantile improvement," ChemRxiv Chemical Engineering and Industrial Chemistry, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/66a26aef01103d79c5aaa7ea

[1129] M. Agnes, A. Santagata, D. Veclani, A. Venturini, M. Monari, P. Dambruoso, I. Manet, "Structural design and in flow synthesis of aromatic endoperoxides as oxygen releasing agents at physiological conditions," ChemRxiv Organic Chemistry, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/669f867b01103d79c558bba8

[1128] J. Woodliffe, J. Molinar-Díaz, B. Holland, O. Hussein, E. Lester, K. Robertson, "Magnetic Framework Composites Via Continuous Flow Syntheses for Co-2 Capture and Other Applications," Available at SSRN, 2024. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4962672

[1127] F. Molinari, L. Nespoli, E. Ribul Moro, J. Mafezoli, M. Contente, S. Donzella, D. Romano, "Biocatalytic Oxidation of Benzyl Alcohol Derivatives into Carboxylic Acids: From Biocatalyst Discovery to Productivity Leap in a Continuous Flow System," Available at SSRN, 2024. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4940632

[1126] C. Pinna, "NATURE-INSPIRED COMPOUNDS AS MULTI-TARGET DIRECTED LIGANDS," Thesis, 2024. https://air.unimi.it/handle/2434/1055872

[1125] M. Waskaas, "Synthesis and Comparative Analysis of Carbon Dots: A Study on Continuous Flow, Microwave, and Furnace Methods," Thesis, 2024. https://bora.uib.no/bora-xmlui/handle/11250/3149476

[1124] J. Schütte, D. Corsi, W. Haumer, S. Schmid, J. Žurauskas, J. Barham, "A hydrazine-free photoredox catalytic synthesis of azines by reductive activation of readily available oxime esters," *Green Chemistry,* vol. 26, no. 11, pp. 6446-6453, 2024. http://dx.doi.org/10.1039/d4gc00804a

[1123] R. Barrulas, C. Tinajero, D. Ferreira, C. Illanes-Bordomás, V. Sans, M. Carrott, C. García-González, M. Zanatta, M. Corvo, "Poly(ionic liquid)-based aerogels for continuous-flow CO2 upcycling," *Journal of CO2 Utilization,* vol. 83, pp. 102771, 2024. https://www.sciencedirect.com/science/article/pii/S2212982024001069

[1122] F. Nanto, S. Ötvös, C. Oliver Kappe, P. Canu, "Experimental and computational investigation of fluid flow and solid transport in split-and-recombine oscillatory flow reactors for organic chemistry in water," *Journal of Industrial and EngineeringChemistry,* 2024. https://www.sciencedirect.com/science/article/pii/S1226086X2400255

[1121] S. B. H. Patterson, V. Arrighi, F. Vilela, "A Sacrificial Linker in Biodegradable Polyesters for Accelerated Photoinduced Degradation, Monitored by Continuous Atline SEC Analysis," *ACS macro letters,* vol. 13, no. 5, pp. 508-514, 2024. https://pubs.acs.org/doi/abs/10.1021/acsmacrolett.4c00117

[1120] D. Ghosh, A. Sherin, S. Ghosh, S. Kalose, A. Hajra, "Photochemical and Electrochemical Synthesis of Oxazoles and Isoxazoles: An Update," *Advanced Synthesis ; Catalysis,* vol. 366, no. 10, pp. 2186-2208, 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202400221

[1119] A. I. Alfano, M. Smyth, S. Wharry, T. S. Moody, M. Nuño, C. Butters, M. Baumann, "Multiphase photochemistry in flow mode via an integrated continuous stirred tank reactor (CSTR) approach," *Chemical communications (Cambridge, England)*, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/cc/d4cc02477j

[1118] K. Donnelly, M. Baumann, "Advances in the Continuous Flow Synthesis of 3- and 4-Membered Ring Systems," *chemistry - A european journal,* vol. 30, no. 32, pp. E202400 https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202400758

[1117] J. O. Wenzel, L. Santos Correa, S. Schmidt, M. A. R. Meier, "Benign synthesis of terpene-based 1,4-p-menthane diamine," *Scientific reports,* vol. 14, no. 1, pp. 8055, 2024. https://www.nature.com/articles/s41598-024-58615-5

[1116] M. Spano, A. Pamidi, M. Liu, A. Evans, G. Weiss, "Optimizing Continuous-Flow Biocatalysis with 3D-Printing and Inline IR Monitoring," *ChemCatChem,* 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202400498

[1115] B. Vandekerckhove, L. Van Coillie, B. Metten, T. Heugebaert, C. Stevens,"Development of a solid-compatible continuous flow reactor for the paraformaldehyde slurry mediatedα-hydroxymethylation of methyl vinyl ketone," *Reaction Chemistry & Engineering,* 2024. https://pubs.rsc.org/en/content/articlehtml/2024/re/d4re00220b

[1114] Y. Tsai, M. Cattoen, G. Masson, G. Christen, L. Traber, M. Donnard, F. Leroux, G. Bentzinger, S. Guizzetti, J. Monbaliu, "On a seamlessly replicable circular photoreactor for lab-scale continuous flow applications," *Reaction Chemistry & Engineering,* vol. 9, no. 7, pp. 1646-1655, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/re/d4re00109e

[1113] T. Masson, S. Zondag, J. Schuurmans, T. Noël, "Open-source 3D printed reactors for reproducible batch and continuous-flow photon-induced chemistry: design and characterization," *Reaction Chemistry ; Engineering,* 2024. https://pubs.rsc.org/en/content/articlehtml/2024/re/d4re00081a

[1112] M. Weiser, A. M. Pálvölgyi, M. Weil, K. Bica-Schröder, "Continuous Enantioselective α-Alkylation of Ketones via Direct Photoexcitation," *The Journal of organic chemistry,* vol. 89, no. 12, pp. 8906-8914, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.joc.4c00759

[1111] K. Ruhl, M. Di Maso, H. Rose, D. Schultz, F. Lévesque, S. Grosser, S. Silverman, S. Li, N. Sciammetta, U. Mansoor, "Continuous-Flow Solid-Phase Peptide Synthesis to Enable Rapid, Multigram Deliveries of Peptides," *Organic Process Research & Development*, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00165

[1110] H. Thalla, V. Uma Jayaraman, M. Uppada, V. Eda, S. Sen, R. Bandichhor, S. Oruganti, "Supervised Machine-Learning Algorithm using Low Data Sets: Flow Chemistry Optimization of the Key Urea Moiety Construction in Larotrectinib," *Organic Process Research & Development,* 2024 https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00489

[1109] M. Hosoya, A. Manaka, T. Kawajiri, T. Ohara, "Application of Taylor Vortex Flow Reactor Enabling Precise Control of Nucleation in Reactive Crystallization," *Organic Process Research & Development,* vol. 28, no. 5, pp. 1752-1763, 2024. http://dx.doi.org/10.1021/acs.oprd.3c00369

[1108] R. Lapierre, T. Le, B. Schiavi, D. Thevenet, M. Bazin, R. Buzdygon, P. Jubault, T. Poisson, "Photocatalytic and Photoinduced Phosphonylation of Aryl Iodides: A Batch and Flow Study," *Organic Process Research & Development,* vol. 28, no. 5, pp. 1436-1446, 2024. http://dx.doi.org/10.1021/acs.oprd.2c00379

[1107] B. C. Hong, R. R. Indurmuddam, "Tetrabutylammonium decatungstate (TBADT), a compelling and trailblazing catalyst for visible-light-induced organic photocatalysis," *Organic & biomolecular chemistry,* vol. 22, no. 19, pp. 3799-3842, 2024. http://dx.doi.org/10.1039/d4ob0017

[1106] S.Pollington, B. Kalirai, E. Stitt, "Batch to Continuous: From Laboratory Recycle Trickle Bed Test Reactor Data to Full-Scale Plant Preliminary Design—A Case Study Based on the Hydrogenation of Resorcinol," *Processes*, vol. 12, no. 5, pp. 859, 2024. https://www.mdpi.com/2227-9717/12/5/859

[1105] A. Alshammari, J. Boyd, N. Greaves, J. Kettle, J. McKendrick, L. Parker, A. Russell, A. Sani, C. Smith, "Effect of Tether Length on endo/exo Stereoselectivity in Alkene-Arene meta-Photocycloaddition Reactions towards the Aphidocolin/Stemodin Scaffolds," *European Journal of Organic Chemistry*, 2024. https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202400463

[1104] T. Arunkumar, M. Pallavi, R. Philip, G. Anilkumar, "Nickel-Catalysed Decarboxylative Coupling Reactions - An Overview," *ChemistrySelect,* vol. 9, no. 20, 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202400367

[1103] I. C. F. Fonseca, M. L. Pais, F. M. S. Rodrigues, J. Sereno, M. Castelo-Branco, C. Cavadas, M. M. Pereira, A. J. Abrunhosa, "Improved Chemical and Radiochemical Synthesis of Neuropeptide Y Y2 Receptor Antagonist N-Methyl-JNJ-31020028 and Preclinical Positron Emission Tomography Studies," *Pharmaceuticals (Basel, Switzerland),* vol. 17, no. 4, 2024. https://www.mdpi.com/1424-8247/17/4/474

[1102] A. Luguera Ruiz, B. Pijper, M. Linares, S. Cañellas, S. Protti, M. Fagnoni, J. Alcazar, "Automated One-pot Library Synthesis with Aldehydes as Radical Precursors," *ChemRxiv,* 2024. https://chemrxiv.org/engage/chemrxiv/article- details/667c2131c9c6a5c07a712920

[1101] L. Weerarathna, O. Weismantel, T. Junkers, "Comprehensive Screening of Conditions for Block Copolymer Nanoaggregate Formation via Automated DLS," *Thesis,* 2024. https://chemrxiv.org/engage/chemrxiv/article-details/666c2ee201103d79c534c2a1

[1100] J. Morvan, K. Kuijpers, D. Fanfair, B. Tang, K. Bartkowiak, L. Van eynde, E. Renders, S. Wolkenberg, J. Alcazar, P. Buijnsters, M. Carvalho, A. Jones, "Enabling Electrochemical C-O and C-N Arylation Libraries using Alternating Polarity in Flow," *ChemRxiv*, 2024. https://chemrxiv.org/engage/api-gateway/chemrxiv/assets/orp/resource/item/66707cfc5101a2ffa8cb0228/original/enabling-electrochemical-c-o-and-c-n-arylation-libraries-using-alternating- polarity-in-flow.pdf

[1099] T. Ozaki, S. Bentley, N. Rybansky, B. Li, S. Liu, "A BN-Benzvalene," *Chemxiv,* 2024. https://chemrxiv.org/engage/chemrxiv/article-details/666bea6ec9c6a5c07a72a802

[1098] O. Weismantel, L. Weerarathna, T. Junkers, "Autonomous Size-Targeting for Block Copolymer Nanoparticles," *ChemRxiv*, 2024. https://chemrxiv.org/engage/chemrxiv/article-details/666d872701103d79c547c3c1

[1097] A. Bogdan, M. Organ, "Durchflusschemie als Werkzeug zur Arzneimittelforschung: eine medizinchemische Perspektive," *Flow-Chemie für die Synthese von Heterocyclen*, pp. 349 - 374, 2024. https://link.springer.com/chapter/10.1007/978-3-031-51912-3_7

[1096] R. Gérardy, J. Monbaliu, “Mehrstufige kontinuierliche Durchflussprozesse zur Herstellung von heterocyclischen Wirkstoffen,” *Flow-Chemie für die Synthese von Heterocyclen*, pp. 1-112, 2024. https://link.springer.com/chapter/10.1007/978-3-031-51912-3_

[1095] M. Vartabedian, “Study of the Hydrodynamics of Wastewater Treatment Plant Reactors,” *Thesis,* 2024. https://digital.wpi.edu/downloads/cn69m876n

[1094] D. T. Hogan, “Mapping the Unexplored Reactivity Landscape of Benzo [ghi] perylene,” *Thesis,* 2024 https://prism.ucalgary.ca/server/api/core/bitstreams/12deb78e-f870- 4044-864a 902084fb05a8/content

[1093] X. Bertrand, “Synthèse d'halogénures tertiaires aliphatiques,” *Thesis,* 2024. https://theses.hal.science/tel-04547854

[1092] J. Chen, Y. Yuan, A. K. Ziabari, X. Xu, H. Zhang, “AI for Manufacturing and Healthcare: a chemistry and engineering perspective,” *preprint arXiv*, 2024. https://arxiv.org/abs/2405.01520

[1091] S. D. Rihm, Y. R. Tan, W. Ang, M. Hofmeister, X. Deng, S. D. Rihm, Y. R. Tan, W. Ang, M. Hofmeister, X. Deng, “Supplementary Information: The Digital Lab Manager: Automating Research Support,” *Thesis,* 2024. https://www.repository.cam.ac.uk/bitstreams/40a9cd5c-785d-41e3-8a3f-a6953e2c2826/download

[1090] A. Slattery, Z. Wen, P. Tenblad, J. Sanjosé-Orduna, D. Pintossi, T. den Hartog, T. Noël, “Automated self-optimization, intensification, and scale-up of photocatalysis in flow,” *Science (New York, N.Y.)*, vol. 383, no. 6681, pp. eadj1817, 2024. https://www.science.org/doi/abs/10.1126/science.adj1817

[1089] J. Bai, S. Mosbach, C. J. Taylor, D. Karan, K. F. Lee, S. D. Rihm, J. Akroyd, A. A. Lapkin, M. Kraft, “A dynamic knowledge graph approach to distributed self-driving laboratories,” *Nature communications*, vol. 15, no. 1, pp. 462, 2024. https://www.repository.cam.ac.uk/items/bf946b4e-d41e-4d25-a852-0612c75fad16

[1088] S. Cañellas, M. Nuño, E. Speckmeier, “Improving reproducibility of photocatalytic reactions-how to facilitate broad application of new methods,” *Nature communications*, vol. 15, no. 1, pp. 307, 2024. https://www.nature.com/articles/s41467-023-44362-0

[1087] I. Östergren, I. Darmadi, S. Lerch, R. da Silva, M. Craighero, S. Paleti, K. Moth-Poulsen, C. Langhammer, C. Müller, "A surface passivated fluorinated polymer nanocomposite for carbon monoxide resistant plasmonic hydrogen sensing," *Journal of Materials Chemistry A*, vol. 12, no. 13, pp. 7906-7915, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/ta/d4ta00055b

[1086] P. Díaz-Kruik, F. Paradisi, "Rapid production of the anaesthetic mepivacaine through continuous, portable technology," *Green chemistry : an international journal and green chemistry resource : GC*, vol. 26, no. 4, pp. 2313-2321, 2024. http://dx.doi.org/10.1039/d3gc04375d

[1085] P. Mizar, S. Arepally, T. Wirth, "Biphasic organic synthesis with continuous electro-flow," *Current Opinion in Green and Sustainable Chemistry*, vol. 46, pp. 100896, 2024. https://www.sciencedirect.com/science/article/pii/S2452223624000178

[1084] J. Duan, X. Ding, P. Choy, B. Xu, L. Li, H. Qin, Z. Fang, F. Kwong, K. Guo, "Oxidative spirolactonization for modular access of γ-spirolactones via a radical tandem annulation pathway," *Chinese Chemical Letters,* pp. 109565, 2024. https://www.sciencedirect.com/science/article/pii/S1001841724000

[1083] D. Cantillo, "Recent advances in synthetic organic electrochemistry using flow systems," *Current Opinion in Electrochemistry*, vol. 44, pp. 101459, 2024. https://www.sciencedirect.com/science/article/pii/S2451910324000206

[1082] E. Leclercq, W. Barakat, R. Maazaoui, M. Penhoat, I. Gillaizeau, L. Chausset-Boissarie, "Electrochemical Trifluoromethylalkoxylation of Endocyclic Enamides in Batch and Flow," *Advanced Synthesis ; Catalysis,* 2024. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202301485

[1081] A. Guntermann, L. Koch, H. Gröger, "Process Development for the Sustainable and Economic Production of Biobased and Biodegradable High-Performance Lubricants," *ACS Sustainable Chemistry & Engineering*, 2024. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.3c06884

[1080] D. Sutar, G. Swami, A. Jamdade, B. Gnanaprakasam, "Direct Intramolecular Coupling of Primary/Secondary Alcohols with Secondary Alcohols for Macrocyclic Alkenylation Using Ni-Zeolite Catalyst Under Continuous-Flow Conditions," *Advanced Synthesis & Catalysis,* vol. 366, no. 6, pp. 1356-1365, 2024. http://dx.doi.org/10.1002/adsc.202301195

[1079] J. García-Lacuna, M. Baumann, “Continuous Flow Synthesis of Benzotriazin-4(3H)-ones via Visible Light Mediated Nitrogen-Centered Norrish Reaction,” *Organic letters*, vol. 26, no. 12, pp. 2371-2375, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.4c00248

[1078] J. Yu, J. Liu, C. Li, J. Huang, Y. Zhu, H. You, “Recent advances and applications in high-throughput continuous flow,” *Chemical communications (Cambridge, Engla nd),* vol. 60, no. 24, pp. 3217-3225, 2024. https://pubs.rsc.org/en/content/articlehtml/2024/cc/d3cc06180a

[1077] D. Pollon, F. Annunziata, S. Paganelli, L. Tamborini, A. Pinto, S. Fabris, M. A. Baldo, O. Piccolo, “Improved Process for the Continuous Acylation of 1,3-Benzodioxole,” *Molecules (Basel, Switzerland),* vol. 29, no. 3, 2024. https://www.mdpi.com/1420-3049/29/3/726

[1076] K. Stalder, A. Benitez-Mateos, F. Paradisi, “Biocatalytic Syntheis of L-Pipecolic Acid by a Lysine Cyclodeaminase: Batch and Flow Reactors,” *ChemCatChem,* 2024. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202301671

[1075] G. Prakash, J. Grover, P. Pathak, A. Mittal, P. Balasubramaniam, D. Maiti, “A scalable continuous photo-flow protocol for anaerobic oxidative cleavage of styrenes,” *Reaction Chemistry ; Engineering,* 2024. https://pubs.rsc.org/en/content/articlehtml/2024/re/d4re00009a

[1074] H. Stephen, H. Longhurst, M. Nunn, C. Parsons, M. Burns, “The electrochemical oxidation of a thioether to form an API intermediate and the effects of substrate electronics on impurity formation,” *Reaction Chemistry ; Engineering,* vol. 9, no. 4, pp. 883-887, 2024. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00632h

[1073] M. A. Shaikh, A. S. Ubale, B. Gnanaprakasam, “Amberlyst-A26-Mediated Corey-Chaykovsky Cyclopropanation of 9-Alkylidene-9H-fluorene under Continuous Process,” *The Journal of organic chemistry*, vol. 89, no. 4, pp. 2283-2293, 2024. https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c02260

[1072] P. Khairnar, J. Saathoff, D. Cook, S. Hochstetler, U. Pandya, S. Robinson, V. Satam, K. Donsbach, B. Gupton, L. Jin, C. Shanahan, “Practical Synthesis of 6-Amino-1-hydroxy-2,1-benzoxaborolane: A Key Intermediate of DNDI-6148,” *Organic Process Research & Development,* 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00031

[1071] J. Bennett, P. Murphy, "Flow Chemistry for Synthesis of 2-(C-Glycosyl)acetates from Pyranoses via Tandem Wittig and Michael Reactions," *Organic Process Research & Development,* 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00414

[1070] G. Yano, M. Hyakumura, K. Nakano, H. Yasukouchi, H. Kawachi, M. Funabashi, T. Ohishi, Y. Ogawa, A. Nishiyama, "Establishment and Development of Organolithium-Mediated Continuous Flow Process for Intermediate of Canagliflozin," *Organic Process Research & Development,* 2024. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00385

[1069] K. Veeramani, M. Shinde, V. Eda, S. Peraka, S. Mohan, R. Bandichhor, S. Oruganti, "Investigation into a high-p,T,c continuous flow synthesis of myristyl-γ-picolinium chloride (MGPC) - a preservative in pharmaceutical formulations," *Journal of Flow Chemistry,* 2024. https://link.springer.com/article/10.1007/s41981-024-00309-0

[1068] B. Pijper, L. Saavedra, M. Lanzi, M. Alonso, A. Fontana, M. Serrano, J. Gómez, A. Kleij, J. Alcázar, S. Cañellas, "Addressing Reproducibility Challenges in High-Throughput Photochemistry," *ChemRxiv Back to Organic Chemistry,* 2024. https://chemrxiv.org/engage/chemrxiv/article-details/65ecd15a66c1381729a481e2

[1067] O. Alzaidi, T. Wirth, "Continuous Flow Electroselenocyclization of Allylamides and Unsaturated Oximes to Selenofunctionalized Oxazolines and Isoxazolines," *ACS Organic ; Inorganic Au,* 2024. https://pubs.acs.org/doi/abs/10.1021/acsorginorgau.4c00008

[1066] J. Lu, J. Pan, Y. Mo, Q. Fang, "Automated Intelligent Platforms for High-Throughput Chemical Synthesis," *Artificial Intelligence Chemistry,* vol. 2, no. 1, pp. 100057, 2024. https://www.sciencedirect.com/science/article/pii/S2949747724000150

[1065] E. Selmi Higashi, "Innovative Developments in the field of Difluoromethylation Chemistry," *Thesis,* 2024. https://qmro.qmul.ac.uk/xmlui/handle/123456789/95679

[1064] J. Liu, "The control and analysis of one-pot multistep reactions by automation and reaction monitoring technologies," *Thesis,* 2024. https://open.library.ubc.ca/soa/cIRcle/collections/ubctheses/24/items/1.0440689

2023

Year Total: 135

[1063] S. Gianolio, "Decarboxylases and Dehydrogenases in Biocatalysis: Sustainable Production of Amines in Batch and Continuous Flow Systems," *Thesis,* 2023. https://boristheses.unibe.ch/id/eprint/4983

[1062] L. Capaldo, Z. Wen, T. Noël, "A field guide to flow chemistry for synthetic organic chemists," Chemical science, pp. 4230-4247, vol. 14, no. 16, 2023. http://dx.doi.org/10.1039/d3sc00992k

[1061] Deeksha, Bittu, R. Singh, "Synthetic strategies for the construction of C3-fluorinated oxindoles," *Organic & biomolecular chemistry,* vol. 21, no. 32, pp. 6456-6467, 2023. http://dx.doi.org/10.1039/d3ob01012k

[1060] S. Luan, "New development in electrochemistry-Toward new methods for the functionalization of electron-rich olefins," *Thesis,* 2023. https://theses.hal.science/tel-04502328/

[1059] M. A. Gutiérrez López, R. Ali, M. L. Tan, N. Sakai, T. Wirth, S. Matile, "Electric field-assisted anion-π catalysis on carbon nanotubes in electrochemical microfluidic devices," *Science advances*, vol. 9, no. 41, pp. eadj5502, 2023. https://www.science.org/doi/abs/10.1126/sciadv.adj5502

[1058] D. Iglesias, C. Tinajero, S. Marchetti, I. Roppolo, M. Zanatta, V. Sans, "Multi-step oxidative carboxylation of olefins with carbon dioxide by combining electrochemical and 3D-printed flow reactors," *Green Chemistry,* vol. 25, no. 23, pp. 9934-9940, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/gc/d3gc03360k

[1057] N. Baggi, H. Hölzel, H. Schomaker, K. Moreno, K. Moth-Poulsen, "Flow-Integrated Preparation of Norbornadiene Precursors for Solar Thermal Energy Storage," *ChemSusChem*, pp. e202301184, 2023. https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/cssc.202301184

[1056] S. Paul, D. Adelfinsky, C. Salome, T. Fessard, M. K. Brown, "2,5-disubstituted bicyclo[2.1.1]hexanes as rigidified cyclopentane variants," *Chemical science,* vol. 14, no. 30, pp. 8070-8075, 2023. https://pdfs.semanticscholar.org/d181/b81932e31bcdbf81247434ee071a1f1160da.pdf

[1055] A. I. Alfano, M. Smyth, S. Wharry, T. S. Moody, M. Baumann, "Modular Synthesis of Benzoylpyridines Exploiting a Reductive Arylation Strategy," *Organic letters*, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.3c03833

[1054] M. Mlakić, H. Perinić, V. Vušak, O. Horváth, D. Sampedro, R. Losantos, I. Odak, I. Škorić, "Photochemical Transformations of Diverse Biologically Active Resveratrol Analogs in Batch and Flow Reactors," *Molecules,* vol. 29, no. 1, pp. 201, 2023. https://www.mdpi.com/1420-3049/29/1/201

[1053] N. Fracchiolla, S. Patti, F. Sangalli, D. Monti, F. Presini, P. Giovannini, F. Parmeggiani, E. Brenna, D. Tessaro, E. Ferrandi, "Insight into the Stereoselective Synthesis of (1S)-Nor(pseudo)ephedrine Analogues by a Two-Steps Biocatalytic Process," *ChemCatChem*, 2023. https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202301199

[1052] I. E. Romero, A. Postigo, S. M. Bonesi, "Preparation of Carbazoles Involving 6π-Electrocyclization, Photoredox-, Electrochemical-, and Thermal Cyclization Reactions: Mechanistic Insights," *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202303229, 2023. https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202303229

[1051] K. Stagel, L. Ielo, K. Bica-Schröder, "Continuous Synthesis of Carbamates from CO2 and Amines," *ACS omega*, vol. 8, no. 50, pp. 48444-48450, 2023. https://pubs.acs.org/doi/abs/10.1021/acsomega.3c0824

[1050] E. Rial-Rodríguez, J. Wagner, H. Eggenweiler, T. Fuchss, A. Sommer, C. Kappe, J. Williams, D. Cantillo, "A low-volume flow electrochemical microreactor for rapid and automated process optimization," *Reaction Chemistry ; Engineering,* vol. 9, no. 1, pp. 31-36, 2023. https://pubs.rsc.org/en/content/articlehtml/2024/re/d3re00586k

[1049] R. Labes, J. Pastre, R. Ingham, C. Battilocchio, H. Marçon, M. Damião, D. Tran, S. Ley, "Automated multistep synthesis of 2-pyrazolines in continuous flow, Reaction Chemistry ;" Engineering, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00515a

[1048] D. Drelinkiewicz, T. Corrie, R. Whitby, "Rapid investigation of the effect of binary and ternary solvent gradient mixtures on reaction outcomes using a continuous flow system," *Reaction Chemistry ; Engineering*, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00464c

[1047] N. Disney, M. Smyth, S. Wharry, T. Moody, M. Baumann, "A cyanide-free synthesis of nitriles exploiting flow chemistry," *Reaction Chemistry & Engineering,* 2023. https://pubs.rsc.org/en/content/articlehtml/2024/re/d3re00458a

[1046] S. Martinuzzi, M. Tranninger, P. Sagmeister, M. Horn, J. Williams, C. Kappe, "Dynamic experiments in flow accelerate reaction network definition in a complex hydrogenation using catalytic static mixers," *Reaction Chemistry & Engineering,* vol. 9, no. 1, pp. 132-138, 2023. https://pubs.rsc.org/en/content/articlehtml/2024/re/d3re00451a

[1045] L. van Wyk, N. Neyt, J. Jugmohan, J. Panayides, D. Riley, "The synthesis of bupropion hydrochloride under greener and safer conditions utilizing flow technologies," *Reaction Chemistry & Engineering,* vol. 9, no. 1, pp. 45-57, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00443k

[1044] H. F. Grantham, R. J. Lee, G. M. Wardas, J. R. Mistry, M. R. J. Elsegood, I. A. Wright, G. J. Pritchard, M. C. Kimber, "Transition-Metal-Free Continuous-Flow Synthesis of 2,5-Diaryl Furans: Access to Medicinal Building Blocks and Optoelectronic Materials," *The Journal of organic chemistry*, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c02237

[1043] J. García-Lacuna, M. Baumann, "Continuous Flow Synthesis of Nitrosoarenes via Photochemical Rearrangement of Aryl Imines," *The Journal of organic chemistry,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c02362

[1042] N. Kánya, T. Zsigmond, T. Hergert, K. Lövei, G. Dormán, F. Kálmán, F. Darvas, "Click Reactions Meet Flow Chemistry: An Overview of the Applications of Click Chemistry under Continuous Flow Conditions," *Organic Process Research &; Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00364

[1041] T. Jerkovic, H. Cruickshank, Y. Chen, A. Trindade, A. Dumas, J. Edwards, A. Alorati, H. Ho, "Development and Kilogram-Scale Implementation of a Flavin-Catalyzed Photoredox Fluorodecarboxylation," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c0034

[1040] P. Filipponi, B. Cerra, A. Piccinno, E. Camaioni, A. Gioiello, "Continuous Flow Synthesis of the PARP-1/2 Inhibitor HYDAMTIQ: Synthetic Strategy, Optimization, and Green Metrics Evaluation," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00295

[1039] D. Bhagwandin, J. Dunlap, L. Tran, A. Reidell, D. Austin, A. Putnam-Neeb, M. Loveday, R. Rao, L. Baldwin, N. Glavin, "Covalent organic framework crystallization using a continuous flow packed-bed reactor," *CrystEngComm,* vol. 26, no. 1, pp. 27-31, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/ce/d3ce01030a

[1038] M. Spennacchio, P. Natho, M. Andresini, M. Colella, "Continuous Flow Generation of Highly Reactive Organometallic Intermediates: A Recent Update," *Journal of Flow Chemistry,* 2023. https://link.springer.com/article/10.1007/s41981-023-00292-y

[1037] P. Singh, V. Srivastava, "Visible-Light Photoredox Catalysis in the Late-Stage Functionalization of Anticancer Agents," *ChemistrySelect*, vol. 8, no. 44, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202302732

[1036] T. Maschmeyer, B. Conklin, T. C. Malig, D. J. Russell, K. L. Kurita, J. E. Hein, J. G. Napolitano, "A reliable external calibration method for reaction monitoring with benchtop NMR," *Magnetic resonance in chemistry : MRC*, 2023. https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/mrc.5421

[1035] M. Hosoya, A. Manaka, T. Kawajiri, T. Ohara, "Application of Taylor Vortex Flow Reactor Enabling Precise Control of Nucleation in Reactive Crystallization," *ChemRxiv Back to Organic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article- details/65289f668bab5d20553d8a32

[1034] R. Mondal, N. Jacob, M. Devuyst, M. Quertenmont, G. Averochkin, S. Deri, L. Galmidi, D. Gordon-Levitan, M. Feller, J. Vantourout, P. Echeverria, S. Gnaim, "Electro-Oxidative Platform for Nucleophilic α-Functionalization of Ketones," *ChemRxiv Back toOrganic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article- details/65411e9ba8b423585aa73285

[1032] S. Bonciolini, A. Pulcinella, M. Leone, D. Schiroli, A. Luguera Ruiz, A. Sorato, M. Dubois, R. Gopalakrishnan, G. Masson, N. Della Ca', S. Protti, M. Fagnoni, E. Zysman-Colman, M. Johansson, T. Noel, "Metal-free Photocatalytic Cross-Electrophile Coupling enables C1 Homologation and Alkylation of Carboxylic Acids with Aldehydes," *ChemRxiv Back to Organic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/655518f0dbd7c8b54b55adbd

[1032] J. Zhang, N. Sugisawa, K. Felton, S. Fuse, A. Lapkin, "Multi-objective Bayesian optimisation using q-Noisy Expected Hypervolume Improvement (qNEHVI) for Schotten-Baumann reaction," *Reaction Chemistry & Engineering,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00502j

[1031] J. Santiago-Arcos, S. Velasco-Lozano, E. Diamanti, D. Grajales, A. Mateos, F. Paradisi, F. López-Gallego, "Optimized Spatial Configuration of Heterogeneous Biocatalysts Maximizes Cell-Free Biosynthesis of ω-Hydroxy and ω-Amino Acids," *Research Square,* 2023. https://www.researchsquare.com/article/rs-3644964/latest

[1030] 中原祐一, “Advanced Control of Reaction Selectivity via High-speed Micromixing Flow Processes: A Breakthrough Approach to Protein Functionalization,” *Thesis,* 2023. https://eprints.lib.hokudai.ac.jp/dspace/bitstream/2115/90796/1/NAKAHARA_Yuichi.pdf

[1029] T. Maschmeyer-Tombs, “Advancing benchtop nuclear magnetic resonance (NMR) spectroscopy as a tool for pharmaceutical development,” *Thesis,* 2023. https://open.library.ubc.ca/soa/cIRcle/collections/ubctheses/24/items/1.0438307

[1028] K. Felton, “Transfer Learning for Accelerated Process Development,” *Thesis,* 2023. https://www.repository.cam.ac.uk/items/a89ff0da-f6b0-49a6-b426-9f61f319135e

[1027] S. Thuillier, “Étude du mode d'action de la radulanine A, une molécule phytotoxique d'origine naturelle,” *Thesis,* 2023. https://theses.hal.science/tel-04318019/

[1026] G. Mathieu, “Nouvelles méthodologies de synthèse pour la création de liens carbone-azote par voie nucléophile et electrophile,” *Thesis,* 2023. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/31920

[1025] J. A. D. Silvestre, “Síntese de Espiro-β-lactamas com potente atividade antimicrobiana: Estudo de condições de reação em fluxo contínuo,” *Thesis,* 2023. https://estudogeral.uc.pt/retrieve/265439/Tese%20Mestrado_Quimica%20Medicinal_Jo%C3%A3o%20Silvestre.pdf

[1024] K. Greis, “Structural Analysis of Glycosyl Cations and Other Intermediates Using Cryogenic Infrared Spectroscopy,” *Thesis,* 2023. https://search.proquest.com/openview/89af7a9e95aa6f88e9914fd32786ce8f/1?pq-origsite=gscholar;cbl=2026366;diss=y

[1023] X. Yuan, H. Fan, J. Liu, L. Qin, J. Wang, X. Duan, J. Qiu, K. Guo, “Recent advances in photoredox catalytic transformations by using continuous-flow technology,” *Chinese Journal of Catalysis,* vol. 50, pp. 175-194, 2023. https://www.sciencedirect.com/science/article/pii/S187220672364447X

[1022] S. Hammer, F. Nanto, P. Canu, S. B. Otvos, C. O. Kappe, “Application of an Oscillatory Plug Flow Reactor to Enable Scalable and Fast Reactions in Water Using a Biomass-Based Polymeric Additive,” *ChemSusChem,* pp. e202301149, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cssc.202301149

[1021] T. Biremond, M. Riomet, P. Jubault, T. Poisson, "Photocatalytic and Electrochemical Borylation and Silylation Reactions," *Chemical record (New York, N.Y.),* pp. e202300172, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/tcr.202300172

[1020] Q. Cao, J. D. Tibbetts, G. L. Wrigley, A. P. Smalley, A. J. Cresswell, "Modular, automated synthesis of spirocyclic tetrahydronaphthyridines from primary alkylamines," *Communications chemistry*, vol. 6, no. 1, pp. 215, 2023. https://www.researchsquare.com/article/rs-3146809/latest

[1019] J. Nova-Fernández, G. Pascual-Coca, S. Cabrera, J. Alemán, "Rapid and Safe Continuous-Flow Simmons-Smith Cyclopropanation using a Zn/Cu Couple Column," *Advanced Synthesis ; Catalysis,* 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202300665

[1018] A. Ubale, M. Shaikh, N. Mohanta, B. Gnanaprakasam, "Peroxidation and Skeletal Rearrangement for the Synthesis of Dioxole-2-Carboxamide Derivatives under ContinuousFlow Conditions," *Advanced Synthesis & Catalysis,* vol. 365, no. 18, pp. 3094-3100, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202300591

[1017] E. Broumidis, C. G. Thomson, B. Gallagher, L. Sotorríos, K. G. McKendrick, S. A. Macgregor, M. J. Paterson, J. E. Lovett, G. O. Lloyd, G. M. Rosair, A. S. Kalogirou, P. A. Koutentis, F. Vilela, "The Photochemical Mediated Ring Contraction of 4H-1,2,6-Thiadiazines To Afford 1,2,5Thiadiazol-3(2H)-one 1-Oxides," *Organic letters*, vol. 25, no. 37, pp. 6907-6912, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.3c02673

[1016] C. Bracken, M. Baumann, "Synthesis of Highly Reactive Ketenimines via Photochemical Rearrangement of Isoxazoles," *Organic letters*, vol. 25, no. 35, pp. 6593-6597, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.3c02556

[1015] M. Mhate, C. S. Mahanta, D. K. Dhaked, V. Ravichandiran, S. P. Swain, "Metal-free synthesis of selenoesters directly from carboxylic acids using bifunctional selenoureas under batch and continuous-flow conditions," *Chemical communications (Cambridge, England),* vol. 59, no.73, pp. 10920-10923, 2023. https://pubs.rsc.org/en/content/articlehtml/2003/x4/d3cc02872k

[1014] M. O'Shaughnessy, A. C. Padgham, R. Clowes, M. A. Little, M. C. Brand, H. Qu, A. G. Slater, A. I. Cooper, "Controlling the crystallisation and hydration state of crystalline porous organic salts," *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202302420, 2023. https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202302420

[1013] J. H. Griwatz, M. L. Kessler, H. A. Wegner, "Continuous-Flow Synthesis of Cycloparaphenylene Building Blocks on a Large Scale," *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202302173, 2023. https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202302173

[1012] A. K. Mittal, P. Pathak, G. Prakash, D. Maiti, "Highly Scalable and Inherently Safer Preparation of Di, Tri and Tetra Nitrate Esters Using Continuous Flow Chemistry," *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202301662, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202301662

[1011] S. Vicinanza, F. Annunziata, D. Pecora, A. Pinto, L. Tamborini, "Lipase-mediated flow synthesis of nature-inspired phenolic carbonates," *RSC advances*, vol. 13, no, 33pp. 2290122904, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/ra/d3ra04735k

[1010] J. Liao, D. N. Hunter, U. N. Oloyede, J. W. McLaughlin, C. Wang, A. El Marrouni, "Metal-Free Addition of Alkyl Bromides to Access 3,3-Disubstituted Quinoxalinones Enabled by VisibleLight Photoredox Catalysis," *The Journal of organic chemistry,* vol. 88, no.16, pp.1176211766, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c01054

[1009] J. Noh, J. Y. Cho, M. Park, B. Y. Park, "Visible-Light-Mediated TiO2-Catalyzed Aerobic Dehydrogenation of N-Heterocycles in Batch and Flow," *The Journal of organic chemistry,* vol. 88, no. 15, pp. 10682-10692, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c00743

[1008] P. Naik, J. García-Lacuna, P. O'Neill, M. Baumann, "Continuous Flow Oxidation of Alcohols Using TEMPO/NaOCl for the Selective and Scalable Synthesis of Aldehydes," *Organic Process Research ; Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00237

[1007] A. Bonner, M. Baumann, "Development of a Continuous Flow Baldwin Rearrangement Process and Its Comparison to Traditional Batch Mode," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00213

[1006] M. Vasilev, A. Gangu, P. Gajula, N. Kaetzel, V. Natarajan, B. Desai, G. Sirasani, B. Qu, C. Senanayake, "Development of Continuous Flow Processes to Access Pyrrolo[2,1f][1,2,4]triazin-4-amine: An RSM for the Synthesis of Antiviral Drugs," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00184

[1005] K. Kumar, M. Mhate, V. Ravichandiran, S. Swain, "Bis(pinacoloto)diboran/4-phenyl pyridine system for one-pot photocatalyzed borylation and reduction of aldehyde: synthesis of tavaborole in a flow reactor," Synthesis, 2023. https://www.thieme- connect.com/products/ejournals/pdf/10.1055/a-2169-6200.pdf

[1004] A. Petronilli, T. Carofiglio, P. Zardi, "Direct Arylation of Thiophenes in Continuous Flow," *ChemistrySelect,* vol. 8, no. 30, 2023. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202302326

[1003] T. Maschmeyer, D. J. Russell, J. G. Napolitano, J. E. Hein, "Reaction monitoring via benchtop nuclear magnetic resonance spectroscopy: A practical comparison of on-line stopped-flow and continuous-flow sampling methods," *Magnetic resonance in chemistry : MRC,* 2023. https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/mrc.5395

[1002] S. Michałek, A. Powała, L. Gurba-Bryśkiewicz, N. Piórkowska, P. Olejkowska, A. Yamani, Z. Ochal, K. Dubiel, M. Wieczorek, "Fast Claisen condensation reaction optimization in a continuous flow reactor," *Monatshefte für Chemie- Chemical Monthly,* 2023. https://link.springer.com/article/10.1007/s00706-023-03121-z

[1001] T. C. Lee, Y. Tong, W. C. Fu, "Advances in Continuous Flow Fluorination Reactions," *Chemistry, an Asian journal,* pp. e202300723, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/asia.202300723

[1000] R. Martin, C. Odena, M. Linares, N. Castellanos-Blanco, R. McGuire, J. Alonso, A. Dieguez, E. Tan, J. Alcazar, P. Buijnsters, S. Cañellas, "Late-Stage C(sp2)-C(sp3) Diversification via Nickel Oxidative Addition Complexes," *Organic Chemistry*, 2023. https://chemrxiv.org/engage/chemrxiv/article-details/64cca70469bfb8925a551908

[999] F. Nanto, S. Otvos, C. Kappe, P. Canu, "Experimental and Computational Investigation of Fluid Dynamics and Solid Transport in Split-and-Recombine Oscillatory Flow Reactors Using Water as Medium," Chemical Engineering and Industrial Chemistry, 2023. https://chemrxiv.org/engage/chemrxiv/article- details/64c260649ed5166e938e8632

[998] N. Petrović, B. Malviya, C. Kappe, D. Cantillo, "Scaling-up electroorganic synthesis using a spinning electrode electrochemical reactor in batch and flow mode," *Organic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article- details/64c24b15ce23211b20a321ff

[997] H. Grantham, R. Lee, G. Wardas, J. Mistry, M. Elsegood, I. Wright, G. Pritchard, M. Kimber, "Transition metal free continuous flow synthesis of 2,5-diaryl furans: access to medicinal building blocks and optoelectronic materials," *Organic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/65007e50b6ab98a41c5299a0

[996] T. A. Nguyen, T. H. Nguyen, V. D. Pham, M. T.Vu, "Research Activities at Faculty of Chemical Technology, Hanoi University of Industry-20 Years of Growth and Development, Vietnam Journal of CHEMISTRY," 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/vjch.202300081

[995] J. Lowe, "4-π-Photocyclisation of Troponoids-Scope and Applications," *Thesis,* 2023. https://eprints.lancs.ac.uk/id/eprint/202402/

[994] M. Kraft, J. Bai, S. Mosbach, C. Taylor, D. Karan, K. Lee, S. Rihm, J. Akroyd, A. Lapkin, "Expanding the Scope of the Paternò-Büchi Reaction Methodology Development and Mechanistic Studies," *Thesis,* 2023. https://eprints.lancs.ac.uk/id/eprint/200309/

[993] P. Zambelli, "A biocatalytic approach for the synthesis of Lilybelle and other fragrances starting from citrus industry by-products," *Thesis,* 2023. https://www.politesi.polimi.it/handle/10589/204686

[992] E. Brenna, "A biocatalytic approach for the synthesis of Lilybelle® and other fragrances starting from citrus industry by-products," *Thesis,* 2023. https://www.politesi.polimi.it/retrieve/e17a4e6a-99cb-45ee-82c0-46a4b5cc65a0/2023_5_Z ambelli_Tesi_easy_read_02.pdf

[991] L. Caron, "Étude de nouvelles méthodes d'oxydation d'hydrazones en composés diazoïques," *Thesis,* 2023. https://corpus.ulaval.ca/entities/publication/01aee3e4-767c- 4c65-b6a1-b1ffabd3db81

[990] R.C. Epplin, "[2]-Ladderanes as Building Blocks for Medicinal Chemistry," *Thesis,* 2023. https://search.proquest.com/openview/39bd0b22805503b3741dcb248c8405ee/1?pq-origsi te=gscholar;cbl=18750;diss=y

[989] T. Jiang, G. Darlot, C. Ma, T. Gefflaut, V. De, "Enzyme activity prediction using neural networks, docking and high-throughput screening results." *Conference,* 2023. https://www.mabc-cambridge.ai/_files/ugd/02bec4_b501901cafeb4de7928c407b92f43f9d. pdf#page=20

[988] S. B. H Patterson, R. Wong, G. Barker, F. Vilela, "Advances in continuous polymer analysis in flow with application towards biopolymers," *Journal of Flow Chemistry,* 2023. https://link.springer.com/article/10.1007/s41981-023-00268-y

[987] A.I. Alfano, S. Pelliccia, G. Rossino, O. Chianese, "Photo-Flow Technology for Chemical Rearrangements: A Powerful Tool to Generate Pharmaceutically Relevant Compounds," *ACS Med. Chem. Lett.*, 2023. https://pubs.acs.org/doi/full/10.1021/acsmedchemlett.3c00072

[986] S. Jana, V.J. Mayerhofer, C. Teskey, "Photo-and Electrochemical Cobalt Catalysed Hydrogen Atom Transfer for the Hydrofunctionalisation of Alkenes," *Angewandte Chemie International Edition,* 2023. https://onlinelibrary.wiley.com/doi/full/10.1002/anie.202304882

[985] D. C. Salgueiro, "Tuning Reactivity in C (sp 3)—C (sp 2) Cross-Electrophile Coupling," *The University of Wisconsin - Madison ProQuest Dissertations Publishing,* 2023. https://www.proquest.com/docview/2812309946?pqorigsite=gscholar&fromopenview=true

[984] B. Pijper, R. Martín, A.J. Huertas-Alonso, M.L. Linares, "Fully Automated Flow Protocol for C (sp3)–C (sp3) Bond Formation from Tertiary Amides and Alkyl Halides," *Organic Letters,* 2023. https://pubs.acs.org/doi/full/10.1021/acs.orglett.3c01390

[983] Y. Hato, T.F. Jamison, "Multi-platform synthesis of ondansetron featuring process intensification in flow," *Reaction Chemistry & Engineering*, 2023. https://pubs.rsc.org/en/content/articlelanding/2023/re/d3re00249g

[982] A. Slattery, Z. Wen, P. Tenblad, D. Pintossi, "An all-in-one multipurpose robotic platform for the self-optimization, intensification and scale-up of photocatalysis in flow," *ChemRxiv,* 2023. https://chemrxivc.org/engage/chemrxiv/articledetails/64809b97e64f843f41767eac

[981] P.G. Grützmacher, R. Neuhauser, K. Stagel, "Combining Tailored Ionic Liquids with Ti3C2T x MXenes for an Enhanced Load-Carrying Capacity under Boundary Lubrication," *Advanced Engineering Materials,* 2023. https://onlinelibrary.wiley.com/doi/10.1002/adem.202300721

[980] A. Kukor, "Leveraging novel process analytical technologies to access chiral small molecule drug precursors via dynamic crystallization," *PhD Thesis,* 2023. https://scholar.google.es/scholar_url?url=https://open.library.ubc.ca/media/download/pdf

[979] A. Azizan, L. Venter, P.J. Jansen van Rensburg, "Metabolite Changes of Perna canaliculus Following a Laboratory Marine Heatwave Exposure: Insights from Metabolomic Analyses," *Metabolites,* 2023. https://www.mdpi.com/2218-1989/13/7/815

[978] T.A. Nguyen, T.H. Nguyen, V.D. Pham, M.T. Vu, T.M.H. Pham, "Research Activities at Faculty of Chemical Technology, Hanoi University of Industry - 20 Years of Growth and Development," *Vietnam Journal of Chemistry,* 2023. https://onlinelibrary.wiley.com/doi/full/10.1002/vjch.202300081

[977] J. Garcia-Lacuna, M. Baumann, "Modular Photochemical Flow Synthesis of Structurally Diverse Benzyne and Triazine Precursors," *Advanced Synthesis & Catalysis,* 2023 https://onlinelibrary.wiley.com/doi/full/10.1002/adsc.202300414

[976] A. Cresswell, Q. Cao, J. Tibbetts, G. Wrigley, A. Smalley, "Modular, Automated Synthesis of Spirocyclic Tetrahydronaphthyridines from Primary Alkylamines," 2023. https://assets.researchsquare.com/files/rs-3146809/v1_covered_a2cbd9e6-0327-4c2ba86d- f08b5c29e752.pdf?c=1689241276

[975] E.E. Callard-Langdon, A. Steven, R.J. Kahan, "Shining a Light on the Advances, Challenges and Realisation of Utilising Photoredox Catalysis in Pharmaceutical Development," *ChemCatChem,*2023. https://chemistryeurope.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202300537

[974] Y. Sato, J. Liu, I.E. Ndukwe, M.V.S. Elipe, D.J. Griffin "Liquid/liquid heterogeneous reaction monitoring: Insights into biphasic Suzuki-Miyaura cross-coupling," *Chem Catalysis,* 2023. https://www.cell.com/chem-catalysis/pdf/S2667-1093(23)00219-1.pdf

[973] J. R. Swierk, "The Cost of Quantum Yield," *Org. Process Res. Dev.,* 2023. https://pubs.acs.org/doi/full/10.1021/acs.oprd.3c00167

[972] J.H. Dunlap, J.G. Ethier, A.A. Putnam-Neeb, S. Iyer, "Continuous flow synthesis of pyridinium salts accelerated by multi-objective Bayesian optimization with active learning," *Chemical Science,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/sc/d3sc01303k

[971] J. Noh, J.Y. Cho, M. Park, B.Y. Park, "Visible-Light-Mediated TiO2-Catalyzed Aerobic Dehydrogenation of N-Heterocycles in Batch and Flow," *The Journal of Organic Chemistry,* 2023. https://pubs.acs.org/doi/full/10.1021/acs.joc.3c00743

[970] L. F. Peña, P. González-Andrés, L. G. Parte, R. Escribano, "Continuous Flow Chemistry: A Novel Technology for the Synthesis of Marine Drugs," *Marine Drugs,* 2023. https://www.mdpi.com/1660-3397/21/7/402

[969] M. Kraft, J. Bai, S. Mosbach, C. Taylor, D. Karan, K. F. Lee, "From Platform to KnowledgeGraph: Distributed Self-Driving Laboratories," 2023. https://assets.researchsquare.com/files/rs

[968] L. Chang, S. Wung, Q. An, L. liu, H. Wang, Y. Li, K. Feng, Z. Zuo, "Resurgence and advancement of photochemical hydrogen atom transfer processes in selective alkane functionalizations," *Chemical Science,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/sc/d3sc01118f

[967] S. Jana, V. Mayerhofer, C. Teskey "Photo- and electrochemical cobalt catalyzed hydrogen atom transfer for the hydrofunctionalisation of Alkenes," *Angewandte Chemie International Edition,* pp. e202304882, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202304882

[966] E. Cooper, E. Alcock, M. Power, G. McGlacken, "The α-alkylation of ketones in flow," *Reaction Chemistry and Engineering,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00229b

[965] M. Smyth, T.S. Moody, S. Wharry, M. Baumann, "Continuous flow synthesis of cyclobutenes using LED technology," *Synlett,* 2023. https://www.thieme-connect.com/products/ejournals/html/10.1055/a-2086-0630

[964] P. Baronas, J.L. Elholm, K. Moth-Poulsen, "Efficient degassing and ppm level oxygen monitoring flow chemistry system," *Reaction Chemistry and Engineering,* 2023. https://pubs.rsc.org/en/content/articlehtml/2023/re/d3re00109a

[963] M. Oliva, V.V. Chernobrovkina, E.V. Van der Eycken. U.K. Sharma, "Boronic acids and their derivatives as continuous flow-friendly alkyl radical precursors," *Synlett,* 2023 https://www.thieme-connect.com/products/ejournals/html/10.1055/a-2068-6038

[962] S.B.H. Patterson, R. Wong, G. Barker, F. Vilela, "Advances in continuous polymer analysis in flow with application towards biopolymers," *Journal of Flow Chemistry,* 20 https://link.springer.com/article/10.1007/s41981-023-00268-y

[961] P. Sagmeister, M. Prieschl, D. Kaldre, C. Gadiyar, C. Moessner, J. Sedelmeier, J.D. Williams, C.O. Kappe, "Continuous Flow-Facilitated CB2 Agonist Synthesis, Part 1: Azidation and [3+2] cycloaddition," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00036

[960] R. Ali, T. Patra, T. Wirth, "Alkene reactions with superoxide radical anions in flow electrochemistry," *Faraday Discussions,* 2023. https://pubs.rsc.org/en/content/articlelanding/2023/fd/d3fd00050h

[959] M. Zhang, P. Roth, "Flow photochemistry – from microreactors to large-scale processing." Science *Direct,* 2023. https://www.sciencedirect.com/science/article/abs/pii/S2211339823000011

[958] M. Krstic, S. Rossi, M. Sanz, A. Puglisi, "Laboratory scale continuous flow systems for the Enantioselective Phase Transfer catalytic synthesis of quaternary amino acids," *Molecules,* vol. 28, no. 3, pp. 1002, 2023. https://www.mdpi.com/1420-3049/28/3/1002

[957] M. Molnar, M. Baumann, "Continuous flow synthesis of phenyl glucosazone and its conversion to 2h-1,2,3- triazole building blocks," *Journal of Flow Chemistry,* 2023. https://link.springer.com/article/10.1007/s41981-022-00255-9

[956] A.A. Ryan, S. D. Dempsey, M. Smyth, K. Fahey, T.S. Moody, S. Wharry, P. Dingwall, D.W. Rooney, J.M. Thompson, P.C. Knipe, M.J. Muldoon, "Continuous flow epoxidation of alkenes using a homogenous manganese catalyst with paracetic acid," *ACS Publications,* vol. 27, no. 2, pp. 262-268, 2023. https://pubs.acs.org/doi/10.1021/acs.oprd.2c00222

[955] K. Veeramani, N. Nayak, N. R. Cameron, A. Kumar, "Process intensification of dendritic fibrous nanospheres (DFMS) via continuous flow: a scalable and sustainable alternative to the conventional batch synthesis," *Reaction Chemistry and Engineering,* no. 4, 2023. https://pubs.rsc.org/en/content/articlelanding/2023/re/d2re00405d

[954] Y. Sato, "Development of process analytical technologies and application for complicated reaction conditions," *Thesis,* 2023. https://open.library.ubc.ca/soa/cIRcle/collections/ubctheses/24/items/1.0423046

[953] B. Pijper, J. Alcázar, G. Oksdath-Mansilla, F. Bisogno, "Continuous-flow photochemistry as an automated platform integrated with closed-loop AI/ML approaches," *Chem Catalysis,* vol.3, no. 1, pp. 100488, 2023. https://www.sciencedirect.com/science/article/pii/S2667109322006674

[952] Q. Wu, L. Li, B. Xu, J. Sun, D. Ji, Y. Li, L. Shen, Z. Fang, J. Duan, B. Chen, K. Guo, "Ironcatalyzed [4 + 2] annulation of amidines with α,β-unsaturated ketoxime acetates toward 2,4,6-trisubstituted pyrimidines," *Green Synthesis and Catalysis,* 2023. https://www.sciencedirect.com/science/article/pii/S2666554923000017

[951] G. Kiala Kinkutu, C. Louis, M. Roy, J. Blanchard, J. Oble, "C3-Alkylation of Furfural Derivatives by Continuous Flow Homogeneous Catalysis," *ChemRxiv Catalysis,* 2023. https://chemrxiv.org/engage/chemrxiv/article-details/63e561ca9da0bc6b33a50b4b

[950] B. Wright, A. Matviitsuk, M. Black, P. García-Reynaga, L. Hanna, A. Herrmann, M. Ameriks, R. Sarpong, T. Lebold, "Skeletal Editing Approach to Bridge-Functionalized Bicyclo[1.1.1]pentanes from Aza-Bicyclo[2.1.1]hexanes," *ChemRxiv Organic Chemistry,* 2023. https://pubs.acs.org/doi/abs/10.1021/jacs.3c02616

[949] C. Taylor, K. Felton, D. Wigh, M. Jeraal, R. Grainger, G. Chessari, C. Johnson, A. Lapkin "Accelerated Chemical Reaction Optimization using Multi-Task Learning," *ChemRxiv Organic Chemistry,* 2023. https://chemrxiv.org/engage/chemrxiv/article- details/63d54989bb08ed3ed71ac4fa

[948] K. Veeramani, M. Shinde, V. Eda, B. Darapaneni, R. Hindupur, S. Madarapu, S. Sen, S. Oruganti, "Alternate end-game strategies towards Nirmatrelvir synthesis: Defining a continuous flow process for the preparation of an anti-COVID drug," *Tetrahedron Letters,* vol. 116, pp. 154344, 2023. https://www.sciencedirect.com/science/article/pii/S0040403923000084

[947] F. Fanini, A. Luridiana, D. Mazzarella, A. Alfano, P. van der Heide, J. Rincón, P. García-Losada, C. Mateos, M. Frederick, M. Nuño, T. Noël, "Flow photochemical Giese reaction via silanemediated activation of alkyl bromides," *Tetrahedron Letters,* vol. 117, pp. 154380, 2023. https://www.sciencedirect.com/science/article/pii/S0040403923000540

[946] K. Kiss, S. Ránky, G. Gyulai, L. Molnár, "Development of a novel, automated, robotic system for rapid, high-throughput, parallel, solid-phase peptide synthesis," *SLAS technology,* vol. 28, no. 2, pp. 89-97, 2023. https://www.sciencedirect.com/science/article/pii/S2472630323000031

[945] A. Labiche, M. Norlöff, S. Feuillastre, F. Taran, D. Audisio, "Continuous Flow Synthesis of Non-Symmetrical Ureas from CO2," *Asian Journal of Organic Chemistry,* vol. 12, no.3, 2023. https://onlinelibrary.wiley.com/doi/abs/10.1002/ajoc.202200640

[944] R. Rubert, R. Paul, "The applications of organozinc reagents in continuous flow chemistry: Negishi coupling," *Journal of Flow Chemistry,* 2023. https://link.springer.com/article/10.1007/s41981-022-00253-x

[943] D. Tarange, N. Nayak, A. Kumar, "Continuous Flow Synthesis of Substituted 3,4-Propylenedioxythiophene Derivatives," *Organic Process Research & Development,* vol. 27, no.2, pp. 358-366, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00356

[942] K. Cole, J. Douglas, T. Hammerstad, C. Stephenson, "Visible-Light Photocatalysis AcademicIndustrial Collaboration Retrospective: Shared Learning and Impact Analysis," *Organic Process Research & Development,* vol. 27, no. 2, pp. 399-408, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00358

[941] M. Prieschl, P. Sagmeister, C. Moessner, J. Sedelmeier, J. Williams, C. Kappe, "Continuous Flow-Facilitated CB2 Agonist Synthesis, Part 2: Cyclization, Chlorination, and Amination," *Organic Process Research & Development,* 2023. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.3c00036

[940] H. Thankappan, C. Burke, B. Glennon, "Indium chloride catalysed benzyl bromination using continuous flow technology," *Organic & biomolecular chemistry*, vol. 21, no. 2, pp. 508-513, 2023. https://pubs.rsc.org/en/content/articlehtml/2023/ob/d2ob01840c

[939] Y.M. Kang, R.H. Kim, S.R. Atriardi, S.K. Woo, "Visible-Light Photoredox-Catalyzed Giese Reaction of α-Silyl Ethers with Various Michael Acceptors," *The Journal of organic chemistry,* vol. 88, no. 6, pp. 3555-3566, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.joc.2c02754

[938] D.V. Sutar, N.U. Sarang, A.B. Jamdade, B. Gnanaprakasam, "Continuous Flow Inter- and Intramolecular Macrolactonization under High Dilution Conditions," *The Journal of organic chemistry,* vol. 88, no. 6, pp. 3740-3759, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.joc.2c03000

[937] A.I. Alfano, S. Pelliccia, G. Rossino, O. Chianese, V. Summa, S. Collina, M. Brindisi, "Continuous-Flow Technology for Chemical Rearrangements: A Powerful Tool to Generate Pharmaceutically Relevant Compounds," *ACS medicinal chemistry letters,* vol. 14, no. 3, pp. 326-337, 2023. https://pubs.acs.org/doi/abs/10.1021/acsmedchemlett.3c00010

[936] R. Ali, R. Babaahmadi, M. Didsbury, R. Stephens, R.L. Melen, T. Wirth, "Flow Electrochemistry for the N-Nitrosation of Secondary Amines," *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202300957, 2023. https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202300957

[935] S. Michałek, A. Maj, L. Gurba-Bryśkiewicz, W. Maruszak, M. Zagozda, Z. Ochal, K. Dubiel, M. Wieczorek, "Development and optimization of a continuous flow ester reduction with LiAlH4 in the synthesis of a key intermediate for a PI3Kδ inhibitor (CPL302415)," *Reaction Chemistry ; Engineering,* 2023. https://pubs.rsc.org/en/content/articlelanding/2023/re/d2re00561a

[934] M. Zhang, P. Roth, "Flow photochemistry — from microreactors to large-scale processing," *Current Opinion in Chemical Engineering,* vol. 39, pp. 100897, 2023. https://www.sciencedirect.com/science/article/pii/S2211339823000011

[933] A. Burke, M. Di Filippo, S. Spiccio, A.M. Schito, D. Caviglia, C. Brullo, M. Baumann, "Antimicrobial Evaluation of New Pyrazoles, Indazoles and Pyrazolines Prepared in Continuous Flow Mode," *International journal of molecular sciences,* vol. 24. no. 6, 2023. https://www.mdpi.com/1422-0067/24/6/5319

[932] F. Rodrigues, V.Masliy, M. Silva, A. Felgueiras, R. Carrilho, M. Pereira, "Catalytic multi-step continuous-flow processes for scalable transformation of eugenol into potential fragrances," *Catalysis Today,* vol. 418, pp. 114055, 2023. https://www.sciencedirect.com/science/article/pii/S0920586123000627

[931] E. Brenna, V. De Fabritiis, F. Parmeggiani, F. Tentori, D. Tessaro, "Lipase-Mediated Synthesis of Oleoyl Ethanolamide Starting from High-Oleic Sunflower Oil Soapstock," *ACS Sustainable Chemistry & Engineering,* vol. 11, no. 7, pp. 2764-2772, 2023. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.2c05598

[930] C.J. Taylor, A. Pomberger, K.C. Felton, R. Grainger, M. Barecka, T.W. Chamberlain, R.A. Bourne, C.N. Johnson, A.A. Lapkin, "A Brief Introduction to Chemical Reaction Optimization," *Chemical reviews,* vol. 123, no. 6, pp. 3089-3126, 2023. https://pubs.acs.org/doi/abs/10.1021/acs.chemrev.2c00798

[929] T. Kliś, "Visible-Light Photoredox Catalysis for the Synthesis of Fluorinated Aromatic Compounds," *Catalysts,* vol. 13, no. 1, pp. 94, 2023. https://www.mdpi.com/2045554

2022

Year total: 122

[928] A.I. Benitez-Mateos, A. Schneider, E. Hegarty, B. Hauer, F. Paradisi, "Spheroplasts preparation boosts the catalytic potential of a squalene-hopene cyclase," *Nature Journal,* vol. 13, no. 6269, 2022. https://www.nature.com/articles/s41467-022-34030-0

[927] C. Cavedon, S. Gisbertz, S. Reischauer, S. Vogl, E. Sperlich, J. H. Burke, R. F. Wallick, S. Schrottke, W. Hsu, L. Aghileri, Y. Pfeifer, N. Richter, C. Teutloff, H. Muller-Werkmeister, D. Cambie, P. H. Seeberger, J. Vura-Weis, R. M. Van dee Veen, A. Thomas, B. Pieber, "Intraligand charge transfer enables visible-light-mediated Nickel-catalysed cross-coupling reactions," *Angewandte Chemie International Edition,* vol. 61, no. 46, pp. e202211433, 2022. https://onlinelibrary.wiley.com/doi/full/10.1002/anie.202211433

[926] R.I. Rodriguez, M. Sicignano, M.J. Garcia, R.C. Enriquez, S. Cabrera, J. Aleman, "Taming photocatalysis in flow: easy and speedy preparation of α-aminoamide derivatives," *Green Chemistry,* no. 17, 2022. https://pubs.acs.org/doi/10.1021/acscentsci.1c00303

[925] T. Cohen, N. Waiskopf, A. Levi, D. Stone, S. Remennik, U. Banin, "Flow synthesis of photocatalytic semiconductor-metal hybrid nanocrystals," *Nanoscale,* no. 5, 2022. https://pubs.rsc.org/en/content/articlelanding/2022/nr/d1nr07681g

[924] K. Machida, H. Yasukouchi, "Innovative process development of pharamaceutical intermediates under continuous- flow system," *Flow and Microreactor Technology in Medicinal Chemistry,* 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527824595.ch9

[923] W. Hsu, S. Reischauer, P.H. Seeberger, B. Pieber, D. Cambie, "Heterogenous metallophotoredox catalysis in a continuous-flow packed bed reactor," *Beilstein Journal of Organic Chemistry,* vol. 18, pp. 1123-1130, 2022. https://www.beilstein-journals.org/bjoc/articles/18/115

[922] X. Tian, J. Kaur, S. Yakubov, J. P. Barham, "α-amino radical halogen atom transfer agents for metallaphotoredox catalyzed cross-electrophile couplings of distinct organic halides," *ChemSusChem,* vol. 15, no. 15, pp. e202200906, 2022 https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/cssc.202200906

[921] B. Lockett-Walters, S. Thuillier, E. Baudouin, B. Nay, "Total synthesis of phytotoxic radulanin A facilitated by the photochemical ring expansion of a 2,2-dimethylchromene in flow," *ACS Publications,* vol. 24, no. 22, pp. 4029-4033, 2022. https://pubs.acs.org/doi/10.1021/acs.orglett.2c01462

[920] C.F. Liang, H.S. Hahm, N.M. Sabbavarapu, P.H. Seeberger, "Automated synthesis of chondroitin sulfate oligosaccharides," *MethodsMolBiol,* vol. 2303, pp. 319-327, 2022. https://pubmed.ncbi.nlm.nih.gov/34626390/

[919] G. Xu, H. Yan, S. Zhang, Q. Wu, J. Duan, K. Guo, "Iron-catalysed synthesis of pyridines from α,β-unsaturated ketoxime acetates and N-acetyl enamides," *Synlett,* vol. 33, no. 03, pp. 283287, 2022. https://www.thieme- connect.com/products/ejournals/abstract/10.1055/a-1679-7225

[918] L. Candish, K.D. Collins, G.C. Cook, J.J. Douglas, A. Gomez-Suarez, A. Jolit, S. Keess, "Photocatalysis in the life science industry," *Chemical Reviews,* vol. 122, no. 2, pp. 2907-2980, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.chemrev.1c00416

[917] Y. Ko, M. Kim, C. Noh, M. J. Kim, K. lee, J. Kim, S. D. Kim, S. S. Jee, "Organic-inorganic hybrid electro-optic material with disperse red 1 chromophore fabricated by flow chemistry," *Journal of Flow Chemistry,* vol. 12, pp. 79-90, 2022. https://link.springer.com/article/10.1007/s41981-021-00191-0

[916] L. Buglioni, F. Raymenants, A. Slattery, S.D.A. Zondag, T. Noel, "Technological Innovations in photochemistry for organic synthesis: Flow chemistry, high-Throughput Experimentation, scale-up, photochemistry," *Chemical Review,* vol. 122, no. 2, pp. 2752-2906, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.chemrev.1c00332

[915] C. A. Shukla, B. Udaykumar, Y. Saisivanarayana, A. Ismaili, T. Haripriya, M. M. Shinde, S. Neti, M. Uppada, V. Eda, S. Sen, S. Oruganti, "Delineating a green, catalyst free synthesis of a popular ntraceutical methylsulfonylmethane (MSM) in continuous flow," *Journal of Flow Chemistry,* vol. 12, pp. 1-7, 2022. https://link.springer.com/article/10.1007/s41981-021-00186-x

[914] K. Baldwin, "Photochemical approaches to azetidines," *Thesis,* 2022. http://eprints.nottingham.ac.uk/69782/

[913] T. Wan, Z. Wen, G. Laudadio, L. Capaldo, R. Lammers, J.A. Rincón, P. García-Losada, C. Mateos, M.O. Frederick, R. Broersma, T. Noël, "Accelerated and Scalable C(sp3)-H Amination via Decatungstate Photocatalysis Using a Flow Photoreactor Equipped with High-Intensity LEDs," *ACS central science,* vol. 8, no. 1, pp. 51-56, 2022. https://link.springer.com/protocol/10.1007/978-1-0716-1579-9_14

[912] B. Casali, E. Brenna, F. Parmeggiani, F. Tentori, D. Tessaro, "Multi-step chemo-enzymatic synthesis of azelaic and pelargonic acids from the soapstock of high-oleic sunflower oil refinement," *Green Chemistry*, vol. 24, no. 5, pp. 2082-2093, 2022. http://dx.doi.org/10.1039/d1gc03553c

[911] A.I. Benítez-Mateos, F. Paradisi, “Sustainable Flow-Synthesis of (Bulky) Nucleoside Drugs by a Novel and Highly Stable Nucleoside Phosphorylase Immobilized on Reusable Supports, *ChemSusChem,* vol. 15, no. 1, pp. e202102030, 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cssc.202102030

[910] J.L. Nova-Fernández, M.J. García, L. Mollari, G. Pascual-Coca, S. Cabrera, J. Alemán, “Continuous-flow synthesis of alkyl zinc sulfinates for the direct photofunctionalization of heterocycles,” *Chemical communications (Cambridge, England),* 2022. https://pubs.rsc.org/en/content/articlehtml/2022/cc/d2cc01065h

[909] J.B. Azeredo, F. Penteado, V. Nascimento, L. Sancineto, A.L. Braga, E.J. Lenardao, C. Santi, “Green Is the Color": An Update on Ecofriendly Aspects of Organoselenium Chemistry,” *Molecules (Basel, Switzerland),* vol. 27, no. 5, 2022. https://www.mdpi.com/1521466

[908] T. Maschmeyer, L. Yunker, J. Hein, “Quantitative and convenient real-time reaction monitoring using stopped-flow benchtop NMR,” *Reaction Chemistry & Engineering,* 2022. https://pubs.rsc.org/en/content/articlehtml/2022/re/d2re00048b

[907] L. Wan, M. Jiang, D. Cheng, M. Liu, F. Chen, “Continuous flow technology-a tool for safer oxidation chemistry,” *Reaction Chemistry ; Engineering,* vol. 7, no. 3, pp. 490-550, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/re/d1re00520k

[906] H. Marçon, J. Pastre, “Continuous flow Meerwein-Ponndorf-Verley reduction of HMF and furfural using basic zirconium carbonate,” *RSC Advances,* vol. 12, no. 13, pp. 7980-7989, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/ra/d2ra00588c

[905] H. Lehmann, T. Ruppen, T. Knoepfel,“Scale-Up of Diazonium Salts and Azides in a Three-Step Continuous Flow Sequence,” *Organic Process Research & Development*, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00016

[904] G. Gambacorta, I. Baxendale, “Continuous-Flow Hofmann Rearrangement Using Trichloroisocyanuric Acid for the Preparation of 2-Benzoxazolinone,” *Organic Process Research & Development,* vol. 26, no. 2, pp. 422-430, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00440

[903] S. Nabil, E. Shalaby, M. Elkady, Y. Matsushita, A. El-Shazly, “Optimizing the Performance of the Meso-Scale Continuous-Flow Photoreactor for Efficient Photocatalytic CO2 Reduction with Water Over Pt/TiO2/RGO Composites,” *Catalysis Letters,* 2022. https://link.springer.com/article/10.1007/s10562-021-03915-y

[902] M. Werłos, G. Kachkovskyi, M. Cieślak, P. Graczyk, P. Zawadzki, J. Kalinowska-Tłuścik, "Photocatalytic Approach to α,α-Difluoroalkyl Alcohols," *Photocatalytic Approach to α,αDifluoroalkyl Alcohols,* Synthesis, 2022. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0041-1737546

[901] J. Forni, M. Czyz, D. Lupton, A. Polyzos, "An electrochemical γ-C-H arylation of amines in continuous flow," *Tetrahedron Letters,* vol. 91, pp. 153647, 2022. https://www.sciencedirect.com/science/article/pii/S0040403922000223

[900] J. Bai, L. Cao, S. Mosbach, J. Akroyd, A.A. Lapkin, M. Kraft, "From Platform to Knowledge Graph: Evolution of Laboratory Automation," *JACS Au,* vol. 2, no. 2, pp. 292-309, 2022. https://pubs.acs.org/doi/abs/10.1021/jacsau.1c00438

[899] A. Benítez-Mateos, A. Schneider, E. Hegarty, B. Hauer, F. Paradisi, "Spheroplasts preparation boosts the catalytic potential of a terpene cyclase," *ChemRxiv,* 2022. https://chemrxiv.org/engage/chemrxiv/article-details/623b279f5c8dae26acf3e8c5

[898] M. Oliva, F. Martens, E. Van der Eycken, U. Sharma "A continuous-flow protocol for photoredox-catalyzed multicomponent Petasis reaction," *STAR Protocols*, vol. 3, no.1, pp.101162, 2022. https://www.sciencedirect.com/science/article/pii/S2666166722000429

[897] J.R. Baker, P.J. Cossar, M.A.T. Blaskovich, A.G. Elliott, "Amino Alcohols as Potential Antibiotic and Antifungal Leads," *Molecules,* 2022. https://www.mdpi.com/1553974

[896] D. Kyprianou, G. Rarata, G. Emma, G. Diaconu, M. Vahčič, "Flow chemistry and the synthesis of energetic materials," *European Commission,* 2022. http://dx.doi.org/10.2760/097972

[895] F. Sommer, R.G. Aeschbacher, U. Thurnheer, C.O. Kappe, "Sustainable and Scalable Synthesis of Noroxymorphone via a Key Electrochemical N-Demethylation Step," *ChemRxiv,*2022. https://chemrxiv.org/engage/chemrxiv/article-details/6241ff57bdebbaaa466f9be1

[894] C. Bracken, M. Baumann, "Assessment of the Impact of Continuous Flow Chemistry on Modern Heterocyclic Chemistry," *researchgate.net*, pp. 21-307, 2022. http://dx.doi.org/10.17374/targets.2022.25.281

[893] M.A. Quibus, “Hydrogénation de dérivés de cétones en flux continu par catalyse de paires de Lewis frustrées,” *Thesis,* 2022. https://pure.unamur.be/ws/portalfiles/portal/62795805/Quibus_Marie_Astrid_M_moire_de_ recherche.pdf

[892] A. Luridiana, D. Mazzarella, L. Capaldo, J.A. Rincón, P. García-Losada, C. Mateos, M.O. Frederick, M. Nuño, W. Jan Buma, T.Noël, “The Merger of Benzophenone HAT Photocatalysis and Silyl Radical-Induced XAT Enables Both Nickel-Catalyzed Cross-Electrophile Coupling and 1,2-Dicarbofunctionalization of Olefins,” *ACS catalysis,* vol. 12, no. 18, pp. 11216-11225, 2022. https://pubs.acs.org/doi/abs/10.1021/acscatal.2c03805

[891] A. Putnam-Neeb, J. Kaiser, A. Hubbard, D. Street, M. Dickerson, D. Nepal, L. Baldwin, “Selfhealing and polymer welding of soft and stiff epoxy thermosets via silanolates,” *Advanced Composites and Hybrid Materials,* 2022. https://link.springer.com/article/10.1007/s42114-022-00558-4

[890] N. Abd Razak, P. Cognet, Y. Pérès, L. Gew, M. Aroua, “Kinetics and hydrodynamics of Candida antartica lipase-catalyzed synthesis of glycerol dioleate (GDO) in a continuous flow packedbed millireactor,” *Journal of Cleaner Production*, vol. 373, pp. 13381, 2022. https://www.sciencedirect.com/science/article/pii/S0959652622033923

[889] H. Luo, J. Ren, Y. Sun, Y. Liu, F. Zhou, G. Shi, J. Zhou, “Recent advances in chemical fixation of CO2 based on flow chemistry,” *Chinese Chemical Letters*, pp. 107782, 2022. https://www.sciencedirect.com/science/article/pii/S1001841722007938

[888] K. Kochetkov, N. Bystrova, P. Pavlov, M. Oshchepkov, A. Oshchepkov, “Microfluidic asymmetrical synthesis and chiral analysis,” Journal of Industrial and Engineering Chemistry, vol., 115, pp. 62- 91, 2022. https://www.sciencedirect.com/science/article/pii/S1226086X22004518

[887] D. Perumal, M. Krishnan, K. Lakshmi, “Eco-friendly based stability-indicating RP-HPLC technique for the determination of escitalopram and etizolam by employing QbD approach,” *Green Chemistry Letters and Reviews,* vol. 15, no. 3, pp. 671-682, 2022. https://www.tandfonline.com/doi/abs/10.1080/17518253.2022.2127334

[886] M.A. Levenstein, K. Robertson, T.D. Turner, L. Hunter, C. O'Brien, C., O’Shaughnessy A.N. Kulak, P. Le Magueres, J. Wojciechowski, O.O. Mykhaylyk, N. Kapur,

F.C. Meldrum, “Serial small- and wide-angle X-ray scattering with laboratory sources,” *IUCrJ*, vol. 9, no. Pt 5, pp. 538-543, 2022. https://scripts.iucr.org/cgi-bin/paper?lq5047

[885] D. Taylor, T. Malcomson, A. Zhakeyev, S. Cheng, G. Rosair, J. Marques-Hueso, Z. Xu, M. Paterson, S. Dalgarno, F. Vilela, "4,7-Diarylbenzo[c][1,2,5]thiadiazoles as fluorophores and visible light organophotocatalysts," *Organic Chemistry Frontiers*, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/qo/d2qo01316a

[884] J. Feng, X. Jia, S. Zhang, K. Lu, D. Cahard, "State of knowledge in photoredox-catalysed direct difluoromethylation," *Organic Chemistry Frontiers,* vol. 9, no. 13, pp. 3598-3623, 2022. http://dx.doi.org/10.1039/d2qo00551d

[883] M. Andresini, S. Carret, L. Degennaro, F. Ciriaco, J.F. Poisson, R. Luisi, "Multistep Continuous Flow Synthesis of Isolable NH2 -Sulfinamidines via Nucleophilic Addition to Transient Sulfurdiimide," *Chemistry (Weinheim an der Bergstrasse, Germany),* pp. e202202066, 2022. https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202202066

[882] W. Li, M. Jiang, M. Liu, X. Ling, Y. Xia, L. Wan, F. Chen, "Development of a Fully ContinuousFlow Approach Towards Asymmetric Total Synthesis of Tetrahydroprotoberberine Natural Alkaloids," *Chemistry (Weinheim an der Bergstrasse, Germany),* vol. 28, no. 33, pp. e202200700, 2022. https://www.sciencedirect.com/science/article/pii/S2666554922000795

[881] C. Carlucci, "An Overview on the Production of Biodiesel Enabled by Continuous Flow Methodologies," *Catalysts,* vol. 12, no. 7, pp. 717, 2022. https://www.mdpi.com/1703958

[880] O.M. Griffiths, S.V. Ley, "Multicomponent Direct Assembly of N-Heterospirocycles Facilitated by Visible-Light-Driven Photocatalysis," *The Journal of organic chemistry,* 2022. https://pubs.acs.org/doi/abs/10.1021/acs.joc.2c01684

[879] A.M. Pandey, S. Mondal, B. Gnanaprakasam, "Continuous-Flow Direct Azidation of Alcohols and Peroxides for the Synthesis of Quinoxalinone, Benzooxazinone, and Triazole Derivatives," *The Journal of organic chemistry*, vol. 87, no. 15, pp. 9926-9939, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.joc.2c00941

[878] B. Venezia, D. Morris, A. Gavriilidis, "Taylor-vortex membrane reactor for continuous gasliquid reactions," *AIChE Journal,* 2022. https://aiche.onlinelibrary.wiley.com/doi/abs/10.1002/aic.17880

[877] M. Mlakić, L. Rajič, A. Ljubić, V. Vušak, B. Zelić, M. Gojun, I. Odak, I. Čule, I. Šagud, A. Šalić, I. Škorić, "Synthesis of new heterocyclic resveratrol analogues in milli- and microreactors: intensification of the Wittig reaction," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00239-9

[876] W. Connors, R. DeKorte, S. Lucas, A. Gopalsamy, R. Ziegler, "Synthesis of Benzothiazinones from Benzoyl Thiocarbamates: Application to Clinical Candidates for Tuberculosis Treatment," *European Journal of Organic Chemistry,* vol. 2022, no. 34, 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202200684

[875] K. Safo, H. Noby, M. Matatoshi, H. Naragino, A. El-Shazly, "Statistical optimization modeling of organic dye photodegradation process using slag nanocomposite," *Research on Chemical Intermediates,* vol. 48, no. 10, pp. 4183-4208, 2022. https://link.springer.com/article/10.1007/s11164-022-04807-5

[874] A. Mittal, G. Prakash, P. Pathak, D. Maiti, "Synthesis of CTA and DNAN Using Flow Chemistry," *Asian Journal of Organic Chemistry,* 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/ajoc.20220044

[873] J.H. Griwatz, A. Kunz, H.A. Wegner, "Continuous flow synthesis of azobenzenes via BaeyerMills reaction," *Beilstein journal of organic chemistry*, vol. 18, pp. 781-787, 2022. https://www.beilstein-journals.org/bjoc/articles/18/78

[872] V. Laude, M. Nuño, R.C. Moses, D. Guthrie, "Evaluation of unexpected protecting group removal in solid-phase peptide synthesis: Quantified using continuous flow methods," *Journal of peptide science : an official publication of the European Peptide Society,* pp. e3441, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/psc.3441

[871] A. Riddell, P. Kvist, D. Bernin, "A 3D printed photoreactor for investigating variable reaction geometry, wavelength, and fluid flow," *The Review of scientific instruments*, vol. 93,no. 8, pp. 084103, 2022. https://aip.scitation.org/doi/abs/10.1063/5.0087107

[870] E. Broumidis, C. Thomson, B. Gallagher, L. Sotorríos, K. McKendrick, S. Macgregor, M. Paterson, J. Lovett, G. Lloyd, G. Rosair, A. Kalogirou, P. Koutentis, F. Vilela, "Photochemical Ring Editing: Access to Privileged 1,2,5-Thiadiazole Scaffolds via Efficient Carbon Excision from Thiadiazines Under Ambient, Aerobic Conditions," *ChemRxiv Organic Chemistry*, 2022. https://chemrxiv.org/engage/chemrxiv/article- details/6304c0620187d93ebb9e35fe

[869] S. Pillitteri, P. Ranjan, G. Ojeda-Carralero, L. Vázquez Amaya, J. Alfonso-Ramos, E. Van der Eycken, U. Sharma, "Merging dual photoredox/cobalt catalysis and boronic acid (derivatives) activation for the Minisci reaction," *ChemRxiv Organic Chemistry*, 2022. https://chemrxiv.org/engage/chemrxiv/article-details/631080ad11986c10ce4e2761

[868] L. Wan, G. Kong, M. Liu, M. Jiang, D. Cheng, F. Chen, "Flow chemistry in the multi-step synthesis of natural products," *Green Synthesis and Catalysis,* vol. 3, no. 3, pp. 243-258, 2022. http://dx.doi.org/10.1016/j.gresc.2022.07.007

[867] F. Akwi, P. Watts, "Application of Continuous-Flow Processing in Multistep API and Drug Syntheses," *Flow and Microreactor Technology in Medicinal Chemistry,* pp. 199- 231, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527824595.ch6

[866] P. Richardson, "Flow Chemistry in Medicinal Chemistry: Applications to Bcr-Abl Kinase Inhibitors," *Flow and Microreactor Technology in Medicinal Chemistry,* pp. 103-158, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527824595.ch4

[865] H. Wang, "Analysis of the Current Uses and Future Possibilities of Flow Chemistry in Organic synthesis," *Highlights in Science, Engineering and Technology,* 2022. https://drpress.org/ojs/index.php/HSET/article/view/3238

[864] V. Masliy, "Sustainable synthesis of natural-based potential fragrances via flow chemistry," *Thesis,* 2022. https://estudogeral.uc.pt/handle/10316/104724

[863] A. Kremsmair, "Stereoretentive preparation and reactions of highly optically enriched secondary alkyllithium, alkylmagnesium and alkylzinc reagents," *Thesis,* 2022. https://edoc.ub.uni-muenchen.de/30976/1/Kremsmair_Alexander.pdf

[862] F. Herbrik, "(Asymmetric) photocatalysi under homogenous and heterogenous conditions – optimization in continuo, novel catalytic reactors and materials," *Thesis,* 2022. https://air.unimi.it/handle/2434/938229

[861] M. Krystic, "In batch and in flow synthesis of quaternary amino acids/amino derivatives," *Thesis,* 2022. https://air.unimi.it/bitstream/2434/938246/6/phd_unimi_R12466_1.pdf

[860] A. Santanilla, G. Cook, "Applications of High Throughput Chemistry to Medicinal Chemistry," *The Power of High-Throughput Experimentation: Case Studies from Drug Discovery, Drug Development, and Catalyst Discovery (Volume 2),* pp. 21-mar, 2022. https://pubs.acs.org/doi/abs/10.1021/bk-2022-1420.ch001

[859] A. Burke, S. Spiccio, M. Di Filippo, M. Baumann, "Photochemical Synthesis of Pyrazolines from Tetrazoles in Flow," *SynOpen,* 2022. https://www.thieme- connect.com/products/ejournals/abstract/10.1055/a-1995-1859

[858] J. Spils, T. Wirth, B. Nachtsheim, "Two-Step Continuous-Flow Synthesis of 6-Membered Cyclic Iodonium Salts via Anodic Oxidation," *ChemRxiv Organic Chemistry,* 2022. https://chemrxiv.org/engage/chemrxiv/article-details/634bfda24a18762789e5c3b1

[857] A. Kumar Mittal, G. Prakash, P. Pathak, D. Maiti, "Synthesis of Picramide Using Nitration and Ammonolysis in Continuous Flow," *Chemistry, an Asian journal,* pp. e202201028, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/asia.202201028

[856] J. Sharley, G. Gambacorta, A. Collado Pérez, E. Ferri, A. Miranda, I. Fernández, J. Quesada, I. Baxendale, "A simple one-pot oxidation protocol for the synthesis of dehydrohedione from Hedione," *Tetrahedron,* pp. 133068, 2022. https://www.sciencedirect.com/science/article/pii/S0040402022005361

[855] M. Ivanova, T. Poisson, P. Jubault, J. Legros, "Flow platform for the synthesis of benzodiazepines," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00243-z

[854] E. Brown, "Minireview: recent efforts toward upgrading lignin-derived phenols in continuous flow," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00248-8

[853] S. Donzella, A. Colacicco, L. Nespoli, M.L. Contente, "Mimicking Natural Metabolisms: CellFree Flow Preparation of Dopamine," *Chembiochem : a European journal of chemical biology,* pp. e202200462, 2022. https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/cbic.202200462

[852] S. Lathrop, L. Mlinar, O. Manjrekar, Y. Zhou, K. Harper, E. Sacia, M. Higgins, A. Bogdan, Z. Wang, S. Richter, W. Gong, E. Voight, J. Henle, M. Diwan, J. Kallemeyn, J. Sharland, B. Wei, H. Davies, "Continuous Process to Safely Manufacture an Aryldiazoacetate and Its Direct Use in a Dirhodium-Catalyzed Enantioselective Cyclopropanation," *Organic Process Research & Development,* 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00288

[851] M.B. Chaudhari, P. Gupta, P. Llanes, L. Zhou, N. Zanda, M.A. Pericàs, "An enantio- and diastereoselective approach to indoloquinolizidines in continuous flow," *Organic & biomolecular chemistry,* vol. 20, no. 42, pp. 8273-8279, 2022. http://dx.doi.org/10.1039/d2ob01462a

[850] D. Drelinkiewicz, R.J. Whitby, "A practical flow synthesis of 1,2,3-triazoles," *RSC advances,* vol. 12, no. 45, pp. 28910-28915, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/ra/d2ra04727f

[849] S. Michałek, L. Gurba-Bryśkiewicz, W. Maruszak, M. Zagozda, A.M. Maj, Z. Ochal, K. Dubiel, M. Wieczorek, "The design of experiments (DoE) in optimization of an aerobic flow Pd-catalyzed oxidation of alcohol towards an important aldehyde precursor in the synthesis of phosphatidylinositide 3-kinase inhibitor (CPL302415)," *RSC advances,* vol. 12, no. 52, pp. 33605-33611, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/ra/d2ra07003k

[848] G. Righetti, F. Tentori, E. Brenna, C. Gambarotti, "Development of a flow process for an easy and fast access to 2-pyrone derivatives," *Reaction Chemistry & Engineering,* vol. 8, no.1, pp. 199-204, 2022. https://pubs.rsc.org/en/content/articlehtml/2023/re/d2re00312k

[847] K. Veeramani, N. Nayak, N. Cameron, A. Kumar, "Process intensification of dendritic fibrous nanospheres of silica (DFNS) via continuous flow: a scalable and sustainable alternative to the conventional batch synthesis," *Reaction Chemistry & Engineering*, 2022. https://pubs.rsc.org/en/content/articlehtml/2023/re/d2re00405d

[846] S. Mondal, A. Pandey, B. Gnanaprakasam, "Continuous-flow Fe-zeolite-catalyzed temperature-directed synthesis of bioactive tetraketones and xanthenes using epoxides and cyclic-1,3-diketones via a Meinwald rearrangement," *Reaction Chemistry & Engineering*, 2022. https://pubs.rsc.org/en/content/articlehtml/2023/re/d2re00452f

[845] S. Zhu, H. Li, Y. Li, Z. Huang, L. Chu, "Exploring visible light for carbon-nitrogen and carbonoxygen bond formation via nickel catalysis," *Organic Chemistry Frontiers,* 2022. https://pubs.rsc.org/en/content/articlehtml/2023/qo/d2qo01700h

[844] B. Pijper, I. Abdiaj, D. Leonori, J. Alcázar, "Development of an automated platform for C(sp3)C(sp3) bond formation via XAT chemistry," *ChemCatChem*, 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202201289

[843] A. Cruise, M. Baumann, "TBADT-Mediated C-C Bond Formation Exploiting Aryl Aldehydes in a Photochemical Flow Reactor," *ChemCatChem*, 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202201328

[842] R. Crawford, M. Di Filippo, D. Guthrie, M. Baumann, "Consecutive photochemical reactions enabled by a dual flow reactor coil strategy," *Chemical communications (Cambridge, England)*, vol. 58, no. 95, pp. 13274-13277, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/cc/d2cc05601a

[841] H. Kim, J. Lee, S. Jae Lee, J. Eun Oh, S. Dong Kim, Y. Malpani, Y. Hwang, B. Park, "Improving the sustainability and safety of ursodeoxycholic acid synthesis in continuous flow process with water," *Journal of Industrial and Engineering Chemistry,* 2022. https://www.sciencedirect.com/science/article/pii/S1226086X22006785

[840] I. Abdiaj, S. Cañellas, A. Dieguez, M.L. Linares, B. Pijper, A. Fontana, R. Rodriguez, A. Trabanco, E. Palao, J. Alcázar, "End-to-End Automated Synthesis of C(sp3)-Enriched Drug-like Molecules via Negishi Coupling and Novel, Automated Liquid-Liquid Extraction," *Journal of medicinal chemistry*, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.2c01646

[839] J.J. Walkowiak, C. van Duijnhoven, P. Boeschen, N.A Wolter, J. Michalska-Walkowiak, M. Dulle, A. Pich, "Multicompartment polymeric colloids from functional precursor Microgel: Synthesis in continuous process," *Journal of colloid and interface science,* vol. 634, pp. 243254, 2022. https://www.sciencedirect.com/science/article/pii/S0021979722021920

[838] W.A. Ribeiro Junior, "Análise da distribuição de vapor de uma lavanderia hospitalar,"*Thesis,* 2022. https://repositorio.ufu.br/handle/123456789/35099

[837] J. Sæle, "Design and Synthesis of xCT Inhibitor Candidates," *Thesis,* 2022. https://bora.uib.no/bora-xmlui/bitstream/handle/11250/3014567/Design-and-Synthesis-of-xC T-Inhibitor-Candidates.pdf?sequence=1

[836] A. Bogdan, "Flow Chemistry at the Extremes: Turning Complex Reactions into Scalable Processes," *Flow and Microreactor Technology in Medicinal Chemistry,* pp. 31-Jan, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527824595.ch1

[835] M. Linares, E. López, E. Palao, J. Alcázar, "Flow Chemistry Opportunities for Drug Discovery," *Flow and Microreactor Technology in Medicinal Chemistry*, pp. 67-102, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527824595.ch3

[834] B. Heinz, "The Preparation of Ketones in Continuous Flow using Li- or MgOrganometallics and Convenient Ester and Amide Acylation Reagents and The Preparation of Functionalized Pyridines via Pyridyne Intermediates," *Thesis*, 2022. https://edoc.ub.uni-muenchen.de/29756/1/Heinz_Benjamin_Lukas.pdf

[833] C. Lai, "Synthèse de sulfilimines et sulfoximines à partir de N-mésyloxycarbamates catalysée par des complexes de fer," *Thesis,* 2022. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/26404

[832] B. Lockett-Walters, S. Thuillier, E. Baudouin, B. Nay, "A concise total synthesis of phytotoxic radulanin A facilitated by the photochemical ring expansion of a 2,2-dimethylchromene in flow," *ChemRxiv,* 2022. https://chemrxiv.org/engage/chemrxiv/article-details/62693c0cef2ade019c3f214f

[831] Z. Wen, D. Pintossi, M. Nuno, T. Noel, "Membrane-based TBADT recovery: increasing the sustainability of continuous-flow photocatalytic HAT transformations," *ChemRxiv,* 2022. https://chemrxiv.org/engage/chemrxiv/article-details/629304972f3a05788108a0a8

[830] J. Harenberg, R. Reddy Annapureddy, K. Karaghiosoff, P. Knochel, "Herstellung von Benzylischen Natrium Metallorganylen im Kontinuierlichen Durchfluss," *Angewandte Chemie*, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202203807

[829] A. Ladosz, B. Martin, "Selected Topic: SCS Seminar on Flow Chemistry 2022: Flow Chemistry Highlights," *Conferrence,* 2022. https://chimia.ch/chimia/article/download/2022_367/5318

[828] F. Lou, Q. Cao, C. Zhang, N. Ai, Q. Wang, J. Zhang, "Continuous synthesis of benzaldehyde by ozonolysis of styrene in a micro-packed bed reactor," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00220-6

[827] C. Buonomano, M. Holtz-Mulholland, S. Sullivan, P. Forgione, "Development of a palladiumcatalyzed decarboxylative arene cross-coupling of pyrrole derivatives in a flow reactor," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00222-4

[826] M. Ivanova, J. Legros, T. Poisson, P. Jubault, "A multi-step continuous flow synthesis of pomalidomide," *Journal of Flow Chemistry,* 2022. https://link.springer.com/article/10.1007/s41981-022-00223-3

[825] M.S. Phull, S.S. Jadav, C.S. Bohara, R. Gundla, P.S. Mainkar, "Continuous flow process for preparing budesonide," *Journal of flow chemistry*, vol. 12, no. 2, pp. 237-246, 2022. https://link.springer.com/article/10.1007/s41981-022-00221-5

[824] L. Vinet, L. Di Marco, V. Kairouz, A. harette, "Process Intensive Synthesis of Propofol Enabled by Continuous Flow Chemistry," *Organic Process Research & Development,* 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00416

[823] U. Wietelmann, J. Klösener, P. Rittmeyer, S. Schnippering, H. Bats, W. Stam, "Continuous Processing of Concentrated Organolithiums in Flow Using Static and Dynamic Spinning Disc Reactor Technologies," *Organic Process Research ; Development,* vol. 26, no. 5, pp. 1422-1431, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00007

[822] R. Radjagobalou, M. Imbratta, J. Bergraser, M. Gaudeau, G. Lyvinec, D. Delbrayelle, O. Jentzer, J. Roudin, B. Laroche, S. Ognier, M. Tatoulian, J. Cossy, P. Echeverria, "Selective Photochemical Continuous Flow Benzylic Monochlorination," *Organic Process Research ; Development,* vol. 26, no. 5, pp. 1496-1505, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00065

[821] B. Vandekerckhove, N. Piens, B. Metten, C. Stevens, T. Heugebaert, "Practical Ferrioxalate Actinometry for the Determination of Photon Fluxes in Production-Oriented Photoflow Reactors," *Organic Process Research; Development,* 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00079

[820] M. Hosoya, M. Tanaka, A. Manaka, S. Nishijima, N. Tsuno, "Integration of Liquid-Liquid Biphasic Flow Alkylation and Continuous Crystallization Using Taylor Vortex Flow Reactors," *Organic Process Research ; Development,* vol. 26, no. 5, pp. 1531-1544, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00088

[819] M. Rodriguez-Zubiri, F. Felpin, "Analytical Tools Integrated in Continuous-Flow Reactors: Which One for What?," *Organic Process Research ; Development, vol. 26,* no. 6, pp. 1766-1793, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.2c00102

[818] N. Fuenzalida, E. Alme, F. Lundevall, H. Bjørsvik, "An environmentally benign and high-rate Appel type reaction," *Reaction Chemistry ; Engineering*, vol. 7, no. 7, pp. 1650-1659, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/re/d2re00071g

[817] K. Donnelly, M. Baumann, "Continuous Flow Technology as an Enabler for Innovative Transformations Exploiting Carbenes, Nitrenes, and Benzynes," The Journal of organic chemistry, vol. 87, no. 13, pp. 8279-8288, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.joc.2c00963

[816] A. Marchand, R. Mishra, A. Bernard, J.N. Dumez, "Online reaction monitoring with fast and flow-compatible diffusion NMR spectroscopy," *Chemistry (Weinheim an der Bergstrasse, Germany),* 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.202201175

[815] T. Shioiri, K. Ishihara, M. Matsugi, "Cutting edge of diphenyl phosphorazidate (DPPA) as a synthetic reagent - A fifty-year odyssey," *Organic Chemistry Frontiers*, vol. 9, no. 12, pp. 33603391, 2022. https://pubs.rsc.org/en/content/articlehtml/2022/qo/d2qo00403h

[814] F. Herbrik, S. Rossi, M. Sanz, A. Puglisi, M. Benaglia, "Immobilized Eosin Y for the photocatalytic oxidation of tetrahydroisoquinolines in flow," *ChemCatChem,* 2022. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202200461

[813] K. Guo, G. Xu, X. Wang, C. Jia, H. Yan, S. Zhang, Q. Wu, N. Zhu, Z. Fang, J. Duan, "Synthesis of 2,4,6-Trisubstituted Pyrimidines via Iron-Catalyzed Homocoupling of α,β-Unsaturated Ketoximes," *Advanced Synthesis & Catalysis,* 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202200554

[812] X. Li, Y. Yang, "Automated Chemical Solid-Phase Synthesis of Glycans," *Chinese Journal of Chemistry,* vol. 40, no. 14, pp. 1714-1728, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/cjoc.202200183

[811] B. Lockett-Walters, S. Thuillier, E. Baudouin, B. Nay, "Total Synthesis of Phytotoxic Radulanin A Facilitated by the Photochemical Ring Expansion of a 2,2-Dimethylchromene in Flow," *Organic letters,* vol. 24, no. 22, pp. 4029-4033, 2022. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.2c01462

[810] F. Annunziata, M.L. Contente, V. Anzi, S. Donzella, P. Conti, F. Molinari, P. A. Martino, G. Meroni, V.M. Sora, L. Tamborini, A. Pinto, "Enzymatic continuous-flow preparation of natureinspired phenolic esters as antiradical and antimicrobial agents," *Food chemistry*, vol. 390, pp. 133195, 2022. https://www.sciencedirect.com/science/article/pii/S0308814622011578

[809] J.H. Harenberg, R. Reddy Annapureddy, K. Karaghiosoff, P. Knochel, "Continuous Flow Preparation of Benzylic Sodium Organometallics," *Angewandte Chemie (International ed. in English),* pp. e202203807, 2022. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.202203807

[808] Z. Huang, M. Shanmugam, Z. Liu, A. Brookfield, E.L. Bennett, R. Guan, D.E. Vega Herrera, J.A. Lopez-Sanchez, A.G. Slater, E.J.L. McInnes, X. Qi, J. Xiao, "Chemical Recycling of Polystyrene to Valuable Chemicals via Selective Acid-Catalyzed Aerobic Oxidation under Visible Light," *Journal of the American Chemical Society,* vol. 144, no. 14, pp. 6532-6542, 2022. https://pubs.acs.org/doi/abs/10.1021/jacs.2c01410

[807] S. Gnaim, A. Bauer, H.J. Zhang, L. Chen, C. Gannett, C.A Malapit, D.E. Hill, D. Vogt, T. Tang, R.A. Daley, W. Hao, R. Zeng, M. Quertenmont, W.D. Beck, E. Kandahari, J.C. Vantourout, P.G. Echeverria, H.D. Abruna, D.G. Blackmond, S.D. Minteer, S.E. Reisman, M.S. Sigman, P.S. Baran, "Cobalt-electrocatalytic HAT for functionalization of unsaturated C-C bonds," *Nature,* vol. 605, no. 7911, pp. 687-695, 2022. https://www.nature.com/articles/s41586-022-04595-3

2021

Year total: 110

[806] F. Anunziata, M. L. Contente, C. Pinna, L. Tamborini, A. Pinto, "Biocatalyzed flow oxidation of tyrosol to hydroxytyrosol and efficient production of their acetate esters," *Antioxidants,* vol. 10, no. 7, pp. 1142, 2021. https://www.mdpi.com/2076-3921/10/7/1142

[805] C. G. Thomson, C. Banks, M. Allen, G. Baker, C. R. Coxon, A. L. Lee, F. Vilela, "Expanding the tool kit of automated flow synthesis: development of In-line flash chromatography purification," *Journal of Organic Chemistry,* vol. 86, no. 20, pp. 14079-14094, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c01151

[804] A. Scurria, M. Pagliaro, R. Ciriminna, "Quick, convenient, and clean: advancing education in green chemistry and nanocatalysis using solgel catalysts under flow," *Current Research in Green and sustainable Chemistry,* vol. 4, 2021. https://www.sciencedirect.com/science/article/pii/S2666086521000709

[803] A. Di Michele, S. Giovagnoli, P. Filipponi, F. Venturoni, A. Gioiello, "SBA 15-supported Nanoruthenium catalyst for the oxidative cleavage of alkenes to aldehydes under flow conditions," *Tetrahedron Letters,* vol. 86, pp. 153509, 2021. https://www.sciencedirect.com/science/article/abs/pii/S0040403921007978#:~:text=SBA15%2Dsupported%20ruthenium%20nanoparticles%20were,for%20producing%20aldehydes%20fro m%20alkenes.

[802] A. B. Wood, S. Plummer, R. I. Robinson, M. Smith, J. Chang, F. Gallou, B. H. Lipshutz, "Continuous slurry plig flow Fe/ppm Pd nanoparticle catalyzed Suzuki-miyaura couplings in water utilizing novel solid handling equipment," *Green Chemistry,* no. 19, 2021.
https://pubs.rsc.org/en/content/articlehtml/2021/gc/d1gc02461b

[801] J. A. Souto, "Continuous-flow preparation of benzotropolones: combined batch and flow synthesis of epigenetic modulators of the (JmjC)- containing domain," *Chemistry Select,* vol. 6, no. 39, pp. 10717-10721, 2021.
https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/slct.202102457

[800] M. Oliva, P. Ranjan, S. Pillitteri, C. A. Coppola, M. Messina, E. V. van der Eycken, U. K. Sharma "Photoredox-catalyzed multicomponent Petasis Reaction in Batch and Continuous Flow with Alkyl Boronic acids," *iScience,* vol. 24, no. 10, pp. 103134, 2021.
https://www.sciencedirect.com/science/article/pii/S2589004221011020

[799] O. M. Griffiths, H. A. Esteves, Y. Chen, K. Sowa, O. S. May, P. Morse, D. C. Blakemre, S. V. Ley, "Photoredox-Catalyzed Dehydrogenative Csp3-Csp2 cross-coupling of alkylarenes to aldehydes in flow," *Journal of Organic Chemistry,* vol. 86, no. 19, pp. 13559-13571, 2021.
https://pubs.acs.org/doi/10.1021/acs.joc.1c01621

[798] P. Richardson, I. Abdiaj, "Drug discovery automation and library synthesis in flow," *Flow Chemistry in Drug Discovery,* pp. 421-479, 2021.
https://link.springer.com/chapter/10.1007/7355_2021_135

[797] T. Tiyasakulchai, N. Charoensekatul, T. Khamkhenshorngphanuch, C. Thongpanchanga, O. Srikun, Y. Yuthavong, N. Srimongkolpithak, "Scalable synthesis of favipiravir via conventional and continuous flow chemistry," *RSC Advances,* no. 61, 2021.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9044180/

[796] J. A. Souto, "Continuous-flow preparation of benzotropolones: combined batch and flow synthesis of epigenetic modulators of the (JmjC)- containing domain," *Chemistry Select,* vol. 6, no. 39, pp. 10717-10721, 2021.
https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/slct.20210245

[795] M. Oliva, P. Ranjan, S. Pillitteri, C. A. Coppola, M. Messina, E. V. van der Eycken, U. K. Sharma "Photoredox-catalyzed multicomponent Petasis Reaction in Batch and Continuous Flow with Alkyl Boronic acids," *iScience,* vol. 24, no. 10, pp. 103134, 2021.
https://www.sciencedirect.com/science/article/pii/S2589004221011020

[794] O. M. Griffiths, H. A. Esteves, Y. Chen, K. Sowa, O. S. May, P. Morse, D. C. Blakemore, S. V. Ley, "Photoredox-Catalyzed Dehydrogenative Csp3-Csp2 cross-coupling of alkylarenes to aldehydes in flow," *Journal of Organic Chemistry,* vol. 86, no. 19, pp. 13559-13571, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c01621

[793] P. Richardson, I. Abdiaj, "Drug discovery automation and library synthesis in flow," *Flow Chemistry in Drug Discovery,* pp. 421-479, 2021. https://www.researchgate.net/publication/356900088_Drug_Discovery_Automation_and_Lib rary_Synthesis_in_Flow

[792] T. Tiyasakulchai, N. Charoensekatul, T. Khamkhenshorngphanuch, C. Thongpanchanga, O. Srikun, Y. Yuthavong, N. Srimongkolpithak, "Scalable synthesis of favipiravir via conventional and continuous flow chemistry," *RSC Advances,* no. 61, 2021. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9044180/

[791] 乔凯张锴李玉光何伟郭凯 "Method for preparing epoxidized trans-1,4- polyisoprene by using microreaction device," CN113354758A, *Nanjing Advanced Biomaterials And Process Equipment Research Institute Co. ltd.* 2021. https://patents.google.com/patent/CN113354758A/en

[790] V. E. Murie, P. V. Nicolino, T. dos Santos, G. Gambacorta, R. H. V. Nishimura, I. S. Perovani, L. C. Furtado, L. V. Costa-lotufo, A. M. de Oliveira, R. Vessecchi, I. R. Baxendale, G. C. Closoki, "Synthesis of 7- chloroquinoline derivatives using mixed lithium-magnesium reagents," *Journal of Organic Chemistry,* vol. 86, no. 19, pp. 13402-13419, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c01521

[789] H. E. Askey, J. D. Grayson, J. D. Tibbetts, J. C. Turner-Dore, J. M. Holmes, G. Kociok-Kohn, G. L. Wrigley, A. J. Cresswell, "Photocatalytic hydroaminoalkylation of styrenes with unprotected primary alkylamines," *Journal of American Chemical Society,* vol. 143, no. 39, pp. 1593615945, 2021. https://pubs.acs.org/doi/abs/10.1021/jacs.1c07401

[788] B. Poznansky, S. E. Cleary, L. A. Thompson, H. A. Reeve, K. A. Vincent, "Boosting the productivity of H2-driven biocatalysis in a commercial hydrogenation flow reactor using H2 from water electrolysis," *Frontiers Chemical Engineering,* 2021. https://www.researchgate.net/publication/353736661_Boosting_the_Productivity_of_H2-Driven_Biocatalysis_in_a_Commercial_Hydrogenation_Flow_Reactor_Using_H2_From_Water_El ectrolysis

[787] M. Wernik, G. Sipos, B. Buchholcz, F. Darvas, Z. Novak, S. B. Otvos, C. O. Kappe, "Continuous flow heterogeneous catalytic reductive aminations under aqueous micellar conditions enabled by an oscillatory plug flow reactor," *Green Chemistry,* no. 15, 2021.
https://pubs.rsc.org/en/content/articlelanding/2021/gc/d1gc02039k

[786] P. Bianchi, J. D. Williams, C. O. Kappe, "Continuous flow processing of bismuth-photocatalyzed atom transfer radical addition reaction using an oscillatory flow reactor," *Green Chemistry,* no. 7, 2021.
https://pubs.rsc.org/en/content/articlelanding/2021/gc/d0gc03070h

[785] A. Pulcinella, D. Mazzarella, T. Noel, "Homogenous Catalytic C(sp3)-H functionalization of gaseous alkanes" *Chemical Communications,* no. 78, 2021
https://pubs.rsc.org/en/content/articlehtml/2021/cc/d1cc04073a

[784] D. Polterauer, J. D. Williams, C. A. Hone, C. O. Kappe, "Telescoped lithiation, C –arylation and methoxylation in flow batch hybrid toward the synthesis of canagliflozin," *Tetrahedron Letters,* vol. 82, pp. 153351, 2021.
https://www.sciencedirect.com/science/article/pii/S0040403921006110

[783] F. Sommer, D. Cantillo, C. O. Kappe, "A small footprint ocycodone generator based on continuous flow technology and real time analytics," *Journal of Flow Chemistry,* vol. 11, pp. 707-715, 2021.
https://link.springer.com/article/10.1007/s41981-021-00193-y

[782] P. Ranjan, S. Pillitteri, G. Coppola, M. Oliva, E. V. van der Eycken, U. K. Sharma, "Unlocking the accessibility of alkyl radicals from boronic acids through solvent-assisted organophotoredox activation," *American Chemical Society,* vol. 11, no. 17, pp. 10862-10870, 2021.
https://pubs.acs.org/doi/abs/10.1021/acscatal.1c02823

[781] B. J. M. Baker, W. J. Kerr, D. M. Lindsay, V. K. K. Patel, D. L. Poole, "A sustainable and scalable multicomponent continuous flow process to access fused imidazoheterocycle pharmacophores," *Green Chemistry,* no. 1, 2021.
https://pubs.rsc.org/ko/content/articlehtml/2021/gc/d0gc03675g

[780] P. Alper, J. Deane, S. Jiang, Tao, Jiang, T. Knoepfel, P. Y. Michellys, D. Mutnic, W. Pei, P. Syka, G. Zhang, Y. Zhang, "Compounds and compositions as inhibitors of endosomal toll-like receptors," US201902110009A1, 2021.
https://patents.google.com/patent/US20190211009A1/en

[779] J. Orrego-Hernández, H. Hölzel, M. Quant, Z. Wang, K. Moth-Poulsen, "Scalable Synthesis of norbornadienes via in situ Cracking of Dicyclopentadiene Using Continuous Flow Chemistry," *European Journal of Organic Chemistry,* vol. 2021, no. 38, 2021. https://research.chalmers.se/publication/526064/file/526064_Fulltext.pdf

[778] W. Shin, W. Ko, S. H. Jin, T. Earmme, Y. J. Hwang, "Reproducible and rapid synthesis of a conjugated polymer by stille polycondensation in flow effects of reaction parameters on molecular weight," *Chemical Engineering Journal* vol. 412, 2021. https://www.sciencedirect.com/science/article/pii/S1385894721001716

[777] D. Li, H. Zhang, T. W. Lyons, T. A. Martinot, A. Achab, M. Lu, L. Nogle, S. McMinn, M. Mitcheltree, M. Childers, Q. Pu, S. Gathiaka, A. Palani, K. Chakravarthy, A. Decastro, J. O'neil, R. Afshar, N. C. Walsh, P. W. Fan, M. Cheng, R. Miller, A. Doty, R. Palte, H. Y. Kim, J. Sauri, A. Beard, C. Brynczka, C. Fischer, "Innovation in delivering synthethically challenging bicyclic arginase inhibitors to enhance immunotherapy," *Cancer Research,*vol. 81, no. 13, pp. 297, 2021.

https://aacrjournals.org/cancerres/article/81/13_Supplement/297/668796/Abstract-297-Inno vation-in-delivering

[776] B. Winterson, T. Renningholtz, T. Wirth "Flow electrochemistry: a safe tool for fluorine chemistry," *Chemical Science,* vol. 12, pp. 9053-9059, 2021. https://pubs.rsc.org/en/content/articlelanding/2021/sc/d1sc02123k

[775] T. Duhail, T. Bortolato, J. Mateos, E. Anselmi, B. Jelier, A. Togni, E. Magnier, G. Dagousset, L. Dell'Amico, "Radical alpha- trifluoromethoxylation of ketones by means of organic photoredox catalysis," *Organic Letters,* vol. 23, no. 8, pp. 7088-7093, 2021. https://chemrxiv.org/engage/chemrxiv/article-details/60cb5ea1403d993be2bb0a92

[774] C. M. Heckmann, B. Dominguez, F. Paradisi, "Enantio-complementary continuous-flow synthesis of 2-aminobutanes using covalently immobilized transaminases,"*ACS Sustainable Chemical, Engineering,* vol. 9, no. 11, pp. 4122-4129, 2021. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.0c09075

[773] W. Dermaut, B. Cappuyns, M. Moens, C. Stevens, "A process for making brominating agents in flow. 20210017024, 2021. https://patents.google.com/patent/US20210017024A1/en

[772] F. Annunziata, A. Guaglio, P. Conti, L. Tamborini, R. Gandolfi, "Continuous-flow stereoselective reduction of prochiral ketones in a whole cell bioreactor with natural deep eutectic solvents," *Green Chemistry*, vol. 24, no. 2, pp. 950-956, 2021. http://dx.doi.org/10.1039/d1gc03786b

[771] J. Seitz, T. Wirth, "Electrochemical bromofunctionalization of alkenes in a flow reactor," *Organic & biomolecular chemistry,* vol. 19, no. 31, pp. 6892-6896, 2021. http://dx.doi.org/10.1039/d1ob01302e

[770] E. Skrotzki, "Taming Highly Reactive Species for Use in Organic Synthesis," *Thesis, 2021*. https://ruor.uottawa.ca/handle/10393/42739

[769] H. Grantham, M. Kimber, "Dimeric Cyclobutane Formation Under Continuous Flow Conditions Using Organophotoredox-Catalysed [2+2] Cycloaddition**," *ChemPhotoChem,* 2021. https://chemistry- europe.onlinelibrary.wiley.com/doi/abs/10.1002/cptc.202100273

[768] M. Haas, D. Krisch, S. Gonglach, M. Bechmann, M. Scharber, M. Ertl, U. Monkowius, W. Schöfberger, "Gallium(III) Corrole Complexes as Near-Infrared Emitter - Synthesis, Computational and Photophysical Study," *European Journal of Organic Chemistry*, vol. 2021, no. 10, pp. 1525-1537, 2021. http://dx.doi.org/10.1002/ejoc.202100097

[767] T. Rosalba, S. Kas, A. Sampaio, C. Salvador, C. Andrade, "The Ugly Duckling Metamorphosis: The Ammonia/Formaldehyde Couple Made Possible in Ugi Reactions," *European Journal of Organic Chemistry*, vol. 2021, no. 20, pp. 2831-2842, 2021. http://dx.doi.org/10.1002/ejoc.202001671

[766] A.P. Felgueiras, "Catalisadores para desenvolvimento de processos sequenciais sustentáveis," *Thesis,* 2021. https://eg.uc.pt/handle/10316/98008

[765] N. Leadbeater, "Flow Chemistry as an Enabling Technology for Synthetic Organic Chemistry," *Methods in Pharmacology and Toxicology*, pp. 489-526, 2021. https://link.springer.com/protocol/10.1007/978-1-0716-1579-9_14

[764] A. Gelle, "Shining light on plasmonic silver nanoparticles for catalysis,". thesis 2021 https://escholarship.mcgill.ca/concern/theses/zk51vn71

[763] K. Donnelly, M. Di Filippo, C. Bracken, "Flow Chemistry – Fundamentals," *Flow Chemistry– Fundamentals,* 2021. https://www.degruyter.com/document/doi/10.1515/9783110693676/pdf#page=395

[762] Z. Wang, Z. Wu, Z. Hu, J. Orrego-Hernandez, E. Mu, Z. Zhang, M. Jevric, Y. Liu, X. Fu, F. Wang, T. Li, K. Moth-Poulsen, "Chip-Scale Solar-Thermal-Electrical Power Generation," *SSRN Electronic Journal*, 2021. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3971145

[761] L. Capaldo, S. Bonciolini, A. Pulcinella, M. Nuno, T. Noel, "Modular allylation of C(sp3)−H bonds by combining decatungstate photocatalysis and HWE olefination in flow," *ChemRxiv,* 2021. https://chemrxiv.org/engage/chemrxiv/article-details/61894fce92abe0f30f39d079

[760] H. Grantham, M. Kimber, "Dimeric cyclobutane formation under continuous flow conditions using organophotoredox catalysed [2+2]-cycloaddition," *ChemRxiv,* 2021. https://chemrxiv.org/engage/chemrxiv/article-details/61800ae9e04a8e15e7234b64

[759] A. Ladosz, B. Martin, "Review of recent literature on flow Chemistry:. Selected Topic: Academic-Industrial partnerships: Flow Chemistry Highlights," *Chimia,* 2021. https://ojs.chimia.ch/index.php/chimia/article/download/662/69

[758] A. Abu-Hashem, A. El-Gazzar, A. Abdelgawad, M. Gouda, "Synthesis and chemical reactions of thieno[3,2-c]quinolines from arylamine derivatives, part (V): a review," *Phosphorus, Sulfur, and Silicon and the Related Elements,* pp. 1-24, 2021. https://www.tandfonline.com/doi/abs/10.1080/10426507.2021.2012176

[757] P. Sagmeister, D. Kaldre, J. Sedelmeier, C. Moessner, "Flow Chemistry Highlights," Conference*,* 2021. http://chimia.ch/component/phocadownload/category/335-flow-chemistry-column?downloa d=4550:2021-984

[756] J. Souto, "Continuous-Flow Preparation of Benzotropolones: Combined Batch and Flow Synthesis of Epigenetic Modulators of the (JmjC)-Containing Domain," *ChemistrySelect,* vol. 6, pp. 10717-10721, 2021. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202102457

[755] D. Padrosa, M. Contente, "Multi-gram preparation of cinnamoyl tryptamines as skin whitening agents through a chemo-enzymatic flow process," *Tetrahedron Letters,* vol. 86, pp. 153453, 2021. https://www.sciencedirect.com/science/article/pii/S004040392100736X

[754] A. Di Michele, S. Giovagnoli, P. Filipponi, F. Venturoni, A. Gioiello, "SBA15-supported nanoruthenium catalyst for the oxidative cleavage of alkenes to aldehydes under flow conditions," *Tetrahedron Letters,* vol. 86, pp. 153509, 2021. https://www.sciencedirect.com/science/article/pii/S0040403921007978

[753] M. Duffy, M. Di Filippo, M. Baumann, "Synthesis of 2H-indazoles via the Cadogan reaction in batch and flow mode," *Tetrahedron Letters,* vol. 86, pp. 153522, 2021. https://www.sciencedirect.com/science/article/pii/S0040403921008108

[752] A. Mohammadzadeh, S. Sharif, V. Semeniuchenko, N. Townsend, A. Corbett, M. Organ, "Lithium aluminum hydride in flow: overcoming exotherms, solids, and gas evolution en route to chemoselective reductions," *Journal of Flow Chemistry,* 2021. https://link.springer.com/article/10.1007/s41981-021-00201-1

[751] M. Ivanova, J. Legros, T. Poisson, P. Jubault, "Continuous flow synthesis of Celecoxib from 2bromo-3,3,3-trifluoropropene," *Journal of Flow Chemistry,* pp. 1-5, 2021. https://link.springer.com/article/10.1007/s41981-021-00205-x

[750] J. Orrego-Hernández, H. Hölzel, M. Quant, Z. Wang, K. Moth-Poulsen, "Scalable Synthesis of Norbornadienes via in situ Cracking of Dicyclopentadiene Using Continuous Flow Chemistry," European Journal of Organic Chemistry, vol. 2021, no. 38, pp. 5337-5342, 2021. https://research.chalmers.se/publication/526064/file/526064_Fulltext.pdf

[749] R. Duvadie, A. Pomberger, Y. Mo, E. Altinoglu, H. Hsieh, K. Nandiwale, V. Schultz, K. Jensen, R. Robinson, "Photoredox Iridium-Nickel Dual Catalyzed Cross-Electrophile Coupling: From a Batch to a Continuous Stirred-Tank Reactor via an Automated Segmented Flow Reactor," *Organic Process Research & Development,* vol. 25, no. 10, pp. 2323-2330, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00251

[748] G. Glotz, K. Waniek, J. Schöggl, D. Cantillo, C. Stueckler, A. Arzt, A. Gollner, R. Schipfer, R. Baumgartner, C. Kappe, "Continuous Flow Synthesis of a Blocked Polyisocyanate: Process Intensification,Reaction Monitoring Via In-Line FTIR Analysis, and Comparative Life Cycle Assessment," *Organic Process Research & Development,* vol. 25, no. 10, pp. 2367-2379, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00329

[747] C. Sagandira, S. Nqeketo, K. Mhlana, T. Sonti, P. Watts, S. Gaqa, "Towards 4th industrial revolution efficient and sustainable continuous flow manufacturing of active pharmaceutical ingredients," *Reaction Chemistry & Engineering*, 2021. https://pubs.rsc.org/en/content/articlehtml/2022/re/d1re00483b

[746] N.P. Rossouw, M.A Rizzacasa, A. Polyzos, "Flow-Assisted Synthesis of Alkyl Citrate Natural Products," *The Journal of organic chemistry*, vol. 86, no. 20. pp. 14223-14231, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c01645

[745] D. Djukanovic, B. Heinz, F. Mandrelli, S. Mostarda, P. Filipponi, B. Martin, P. Knochel, "Continuous Flow Acylation of (Hetero)aryllithiums with Polyfunctional N,N-Dimethylamides and Tetramethylurea in Toluene," *Chemistry (Weinheim an der Bergstrasse, Germany),* vol. 27, no. 56, pp. 13977-13981, 2021. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8519161/

[744] C. Pinna, P.A. Martino, G. Meroni, V.M. Sora, L .Tamborini, S. Dallavalle, M.L. Contente, A. Pinto, "Biocatalyzed Synthesis of Vanillamides and Evaluation of Their Antimicrobial Activity," *Journal of agricultural and food chemistry,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.jafc.1c06213

[743] C.E. Mowbray, S. Braillard, P.A. Glossop, G.A. Whitlock, R.T. Jacobs, J. Speake, B. Pandi, B. Nare, L. Maes, V. Yardley, Y. Freund, R.J. Wall, S. Carvalho, D. Bello, M. Van den Kerkhof, G. Caljon, I.H. Gilbert, V. Corpas-Lopez, I. Lukac, S. Patterson, F. Zuccotto, S. Wyllie, "DNDI-6148: A Novel Benzoxaborole Preclinical Candidate for the Treatment of Visceral Leishmaniasis," *Journal of medicinal chemistry,* vol. 64, no. 21, pp. 16159-16176, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.1c01437

[742] B. He, L.K. Macreadie, J. Gardiner, S.G. Telfer, M.R. Hill, "In Situ Investigation of Multicomponent MOF Crystallization during Rapid Continuous Flow Synthesis," *ACS applied materials & interfaces*, vol. 13, no. 45, pp. 54284-5429, 2021. https://pubs.acs.org/doi/abs/10.1021/acsami.1c04920

[741] C.D. Jones, L.J. Kershaw Cook, D. Marquez-Gamez, K.V. Luzyanin, J.W. Steed, A.G. Slater, "High-Yielding Flow Synthesis of a Macrocyclic Molecular Hinge," *Journal of the American Chemical Society,* vol. 143, no. 19, pp. 7217-7590, 2021. https://pubs.acs.org/doi/10.1021/jacs.1c02891

[740] J.T. Kohrt, P.H. Dorff, M. Burns, C. Lee, S.V. O'Neil, R.J. Maguire, R. Kumar, M. Wagenaar, L. Price, M.S. Lall, "Application of Flow and Biocatalytic Transaminase Technology for the Synthesis of a 1-Oxa-8-azaspiro [4.5] decan-3-amine," *Organic Process Research & Development,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00075

[739] N. Amri and T. Wirth, "Flow Electrosynthesis of Sulfoxides, Sulfones, and Sulfoximines without Supporting Electrolytes," *The Journal of organic chemistry,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c00860

[738] J. Baker, C. Russell, J. Gilbert, A. McCluskey and J. Sakoff, "Amino alcohol acrylonitriles as broad spectrum and tumour selective cytotoxic agents," *RSC Medicinal Chemistry,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/md/d1md00021g

[737] Z. Bao, J. Luo, Y. Wang, T. Hu, S. Tsai, Y. Tsai, H. Wang, F. Chen, Y. Lee, T. Tsai, R. Chung and R. Liu, "Microfluidic synthesis of CsPbBr3/Cs4PbBr6 nanocrystals for inkjet printing of miniLEDs," *Chemical Engineering Journal,* vol. 426, p. 130849, 2021. https://www.sciencedirect.com/science/article/pii/S1385894721024347

[736] M. Baumann, C. Bracken and A. Batsanov, "Development of a Continuous Photochemical Benzyne-Forming Process," *SynOpen,* vol. 05, no. 01, pp. 29-35, 2021. http://dx.doi.org/10.1055/s-0040-1706016

[735] M. Baumann, T. Moody, M. Smyth and S. Wharry, "Interrupted Curtius Rearrangements of Quaternary Proline Derivatives: A Flow Route to Acyclic Ketones and Unsaturated Pyrrolidines," *The Journal of organic chemistry,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c01133

[734] A. Benítez-Mateos, M. Contente, D. Roura Padrosa and F. Paradisi, "Flow biocatalysis 101: design, development and applications," *Reaction Chemistry & Engineering,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d0re00483a

[733] F. Dedè, O. Piccolo and D. Vigo, "Dimethyl Fumarate: Heterogeneous Catalysis for the Development of an Innovative Flow Synthesis," *Organic Process Research & Development,* vol. 25, no. 2, pp. 292-299, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00503

[732] L. Dell'Amico, T. Duhail, T. Bortolato, J. Mateos, E. Anselmi, B. Jelier, A. Togni, E. Magnier and G. Dagousset, "Radical alpha-Trifluoromethoxylation of Ketones by Means of Organic Photoredox Catalysis," *ChemRxiv,* 2021. https://chemrxiv.org/engage/chemrxiv/article-details/60cb5ea1403d993be2bb0a92

[731] K. Donnelly and M. Baumann, "A continuous flow synthesis of [1.1.1]propellane and bicyclo[1.1.1]pentane derivatives," *Chemical communications (Cambridge, England),* vol. 57, no. 23, pp. 2871-2874, 2021. https://pubs.rsc.org/da/content/articlehtml/2021/cc/d0cc08124h

[730] K. Donnelly and M. Baumann, "Scalability of photochemical reactions in continuous flow mode," *Journal of Flow Chemistry,* 2021. https://link.springer.com/article/10.1007/s41981-021-00168-z

[729] J. Duan, G. Xu, B. Rong, H. Yan, S. Zhang, Q. Wu, N. Zhu and K. Guo, "Iron-catalyzed [4 + 2] annulation of α,β-unsaturated ketoxime acetates with enaminones toward functionalized pyridines," *Green Synthesis and Catalysis,* 2021. https://www.sciencedirect.com/science/article/pii/S2666554921000259

[728] J. García-Lacuna, T. Fleiß, R. Munday, K. Leslie, A. O'Kearney-McMullan, C. Hone and C. Kappe, "Synthesis of the Lipophilic Amine Tail of Abediterol Enabled by Multiphase Flow Transformations," *Organic Process Research & Development,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00002

[727] M. González-Esguevillas, D. Fernández, J. Rincón, M. Barberis, O. de Frutos, C. Mateos, S. García-Cerrada, J. Agejas and D. MacMillan, "Rapid Optimization of Photoredox Reactions for Continuous-Flow Systems Using Microscale Batch Technology," *ACS Central Science,* 2021. https://pubs.acs.org/doi/abs/10.1021/acscentsci.1c00303

[726] K. Grollier, A. De Zordo-Banliat, F. Bourdreux, B. Pegot, G. Dagousset, E. Magnier and T. Billard, "(Trifluoromethylselenyl)methylchalcogenyl as Emerging Fluorinated Groups: Synthesis under Photoredox Catalysis and Determination of the Lipophilicity," *Chemistry (Weinheim an der Bergstrasse, Germany),* vol. 27, no. 19, pp. 6028-6033, 2021. https://hal.science/hal-03183403v1/file/version%20HAL.pdf

[725] M. Guidi, "An automated platform for multistep synthesis based on a new paradigm for combining flow modules," *Thesis,* 2021. https://refubium.fu-berlin.de/handle/fub188/29954

[724] M. Guidi, S. Moon, L. Anghileri, D. Cambié, P. Seeberger and K. Gilmore, "Combining radial and continuous flow synthesis to optimize and scale-up the production of medicines," *Reaction Chemistry & Engineering,* vol. 6, pp. 220-224, 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d0re00445f

[723] Q. Han, X. Zhou, X. He and H. Ji, "Mechanism and kinetics of the aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by cobalt porphyrin in a membrane microchannel reactor," *Chemical Engineering Science,* vol. 245, p. 116847, 2021. https://www.sciencedirect.com/science/article/pii/S000925092100412

[722] W. He, C. Zhang, W. Zhang, Y. Zhu, Z. Fang, L. Zhao and K. Guo, "The integration of catalyst design and process intensification in the efficient synthesis of 5-hydroxymethyl-2furancarboxylic acid from fructose," *Chemical Engineering Science,* vol. 245, p. 116858, 2021. https://www.sciencedirect.com/science/article/pii/S0009250921004231

[721] M. Hosoya, G. Shiino and N. Tsuno, "A Practical Transferring Method from Batch to Flow Synthesis of Dipeptides via Acid Chloride Assisted by Simulation of the Reaction Rate," *Chemistry Letters,* 2021. https://www.journal.csj.jp/doi/abs/10.1246/cl.210103

[720] G. Ignacz and G. Szekely, "6 Continuous microflow processes," *Sustainable Process Engineering,* pp. 95-116, 2021. https://www.degruyter.com/document/doi/10.1515/9783110717136-006/html

[719] J. Kestemont, J. Frost, J. Jacq, P. Pasau, F. Perl, J. Brown and M. Tissot, "Scale-Up and Optimization of a Continuous Flow Carboxylation of N-Boc-4,4-difluoropiperidine Using sBuLi in THF," *Organic Process Research & Development,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00092

[718] A. Leslie, T. Moody, M. Smyth, S. Wharry and M. Baumann, "Coupling biocatalysis with highenergy flow reactions for the synthesis of carbamates and β-amino acid derivatives," *Beilstein Journal of Organic Chemistry,* vol. 17, pp. 379-384, 2021. https://www.beilstein-journals.org/bjoc/articles/17/33

[717] J. Li, H. Šimek, D. Ilioae, N. Jung, S. Bräse, H. Zappe, R. Dittmeyer and B. Ladewig, "In situ sensors for flow reactors – a review," *Reaction Chemistry & Engineering,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d1re00038a

[716] H. Lin, C. Chen, T. Lin, L. Yeh, W. Hsieh, S. Gao, P. Burnouf, B. Chen, T. Hsieh, P. Dashnyam, Y. Kuo, Z. Tu, S. Roffler and C. Lin, "Entropy-driven binding of gut bacterial β-glucuronidase inhibitors ameliorates irinotecan-induced toxicity," *Communications biology,* p. 280, 2021. https://www.nature.com/articles/s42003-021-01815-w

[715] S. Miao and X. Li, "Enzymatic esterification of lauric acid to give monolaurin in a microreactor," *Journal of Chemical Research,* 2021. https://journals.sagepub.com/doi/abs/10.1177/1747519820977164

[714] S. Nabil, A. Hammad, H. El-Bery, E. Shalaby and A. El-Shazly, "The CO2 photoconversion over reduced graphene oxide based on Ag/TiO2 photocatalyst in an advanced meso-scale continuous-flow photochemical reactor," *Environmental science and pollution research international,* 2021. https://link.springer.com/article/10.1007/s11356-021-13090-7

[713] N. Neyt and D. Riley, "Application of reactor engineering concepts in continuous flow chemistry: a review," *Reaction Chemistry & Engineering,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d1re00004g

[712] P. Nichols, "Automated and enabling technologies for medicinal chemistry," *Progress in medicinal chemistry,* vol. 60, pp. 191-272, 2021. http://dx.doi.org/10.1016/bs.pmch.2021.01.003

[711] A. Petti, C. Fagnan, C. van Melis, N. Tanbouza, A. Garcia, A. Mastrodonato, M. Leech, I. Goodall, A. Dobbs, T. Ollevier and K. Lam, "Supporting-Electrolyte-Free Anodic Oxidation of Oxamic Acids into Isocyanates: An Expedient Way to Access Ureas, Carbamates, and Thiocarbamates," *Organic Process Research & Development,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00112

[710] R. Radjagobalou, V. Freitas, J. Blanco, F. Gros, J. Dauchet, J. Cornet and K. Loubiere, "A revised 1D equivalent model for the determination of incident photon flux density in a continuous-flow LED-driven spiral-shaped microreactor using the actinometry method with Reinecke's salt," *Journal of Flow Chemistry,* 2021. https://link.springer.com/article/10.1007/s41981-021-00179-w

[709] D. Roura Padrosa, Z. Nisar and F. Paradisi, "Efficient Amino Donor Recycling in Amination Reactions: Development of a New Alanine Dehydrogenase in Continuous Flow and Dialysis Membrane Reactors," *Catalysts,* vol. 11, no. 4, p. 520, 2021. https://www.mdpi.com/1079618

[708] S. Sade, "Methods, Photocatalytic N-Arylation of 3-Substituted Pyrrolidines and Comparison with Traditional," *Thesis,* 2021. https://helda.helsinki.fi/handle/10138/327327

[707] E. Seurat, A. Verdin, F. Cazier, D. Courcot, R. Fitoussi, K. Vié, V. Desauziers, I. Momas, N. Seta and S. Achard, "Influence of the environmental relative humidity on the inflammatory response of skin model after exposure to various environmental pollutants," *Environmental research,* vol. 196, p. 110350, 2021. https://www.degruyter.com/document/doi/10.1051/978-2-7598-2478-6-015/html

[706] T. Shi, S. Wang, Z. Yang, Y. Wang, C. Liu, W. He, Z. Fang and K. Guo, "Enzyme-electrochemical continuous flow cascades synthesis of substituted benzimidazoles," *Reaction Chemistry & Engineering,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d1re00058f

[705] E. Skrotzki, J. Vandavasi and S. Newman, "Ozone-Mediated Amine Oxidation and Beyond: A Solvent Free, Flow-Chemistry Approach," *ChemRxiv,* 2021. https://chemrxiv.org/ndownloader/files/26654969

[704] T. Faraggi, C. Rouget-Virbel, J. Rincón, M. Barberis, C. Mateos, S. García-Cerrada, J. Agejas, O. de Frutos and D. MacMillan, "Synthesis of Enantiopure Unnatural Amino Acids by Metallaphotoredox Catalysis," *Organic Process Research & Development,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00208

[703] F. Tentori, E. Brenna, C. Ferrari, F. Gatti, M. Ghezzi and F. Parmeggiani, "Chemo-enzymatic oxidative cleavage of isosafrole for the synthesis of piperonal," *Reaction Chemistry & Engineering,* 2021. https://pubs.rsc.org/en/content/articlehtml/2021/re/d1re00173f

[702] M. Van De Walle, "Continuous photoflow for macromolecular design," *Queensland University of Technology,* 2021. https://eprints.qut.edu.au/208293/

[701] T. Wan, L. Capaldo, G. Laudadio, A. Nyuchev, J. Rincon, P. Garcia-Losada, C. Mateos Gutierrez, M. O Frederick, M. Nuno and T. Noel, "Decatungstate-mediated C(sp3)-H Heteroarylation via Radical-Polar Crossover in Batch and Flow," *Angewandte Chemie (International ed. in English),* 2021. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202104682

[700] M. Waterford, S. Saubern and C. Hornung, "Evaluation of a Continuous-Flow PhotoBromination Using N-Bromosuccinimide for Use in Chemical Manufacture," *Australian Journal of Chemistry,* 2021. https://www.publish.csiro.au/ch/CH20372

[699] A. Zhakeyev, M. Jones, C. Thomson, J. Tobin, H. Wang, F. Vilela and J. Xuan, "Additive manufacturing of intricate and inherently photocatalytic flow reactor components," *Additive Manufacturing,* vol. 38, 2021. https://www.sciencedirect.com/science/article/pii/S2214860420312008

[698] I. Östergren, A. Pourrahimi, I. Darmadi, R. da Silva, A. Stolaś, S. Lerch, B. Berke, M. GuizarSicairos, M. Liebi, G. Foli, V. Palermo, M. Minelli, K. Moth-Poulsen, C. Langhammer and C. Müller, "Highly Permeable Fluorinated Polymer Nanocomposites for Plasmonic Hydrogen Sensing," *ACS applied materials & interfaces,* vol. 13, no. 18, pp. 21724-21732, 2021. https://pubs.acs.org/doi/abs/10.1021/acsami.1c01968

[697] E. Skrotzki, J. Vandavasi and S. Newman, "Ozone-Mediated Amine Oxidation and Beyond: A Solvent-Free, Flow-Chemistry Approach," *The Journal of organic chemistry,* 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c00768

2020

Year total: 106

[696] C. O'Beirne, M. E. Piatek, J. Fossen, H. Muller-Bunz, D. R. Andes, K. Kavanaugh, S. A. Patil, M. Baumann, M. Tackle, "Continuous flow synthesis and antimicrobial evaluation of NHC* silver carboxylate derivatives of SBC3 in vitro and in vivo," *Metallomics,* vol. 13, no. 2, 2020.
https://mural.maynoothuniversity.ie/17301/

[695] S. Bonciolini, M. Filippo, M. Baumann, "A scalable continuous photochemical process for the generation of aminopropylsulfones," *Organic and Biomolecular Chemistry,* no. 46, 2020.
https://pubs.acs.org/doi/10.1021/acscentsci.1c01109

[694] M. I. Jeraal, S. Sung, A. A. Lapkin, "A machine learning-enabled autonomous flow chemistry platform for process optimization of multiple reaction metrics," *Chemistry-Methods,* vol. 1, no. 1, pp. 71-77, 2020.
https://chemistry-europe.onlinelibrary.wiley.com/doi/full/101002/cmtd.202000044

[693] J. Hert, D. Hunziker, C. Kuratli, R. E. Martin, P. Mattei, A. L. Satz, "Bicyclic quinazolinone derivatives," 20200317624, 2020.
https://patents.justia.com/inventor/patrizio-mattei?page=2

[692] C. J. Spedaliere, "Antibody conjugation method," 20200254112, 2020.
https://patents.justia.com/assignee/fujirebio-diagnostics-inc

[691] M. Di Filippo, M. Baumann, "Continuous flow synthesis of quinolones via a scalable tandem photoisomerization cyclization process," *European Journal of Organic chemistry,* vol. 2020, no. 39, pp. 6199-6211, 2020.
https://www.researchgate.net/publication/343407327_Continuous_Flow_Synthesis_of_Quinolines_via_a_Scalable_Tandem_Photoisomerization-Cyclization_Process

[690] J. M. Bartolome-Nebreda, A. A. Trabanco-Suarez, A. I. D. Olivares, S. A. A. De Diego, "Pyrrolidine and bicycloheteroaryl containing oga inhibitor compoundsm," WO2021094312A1, 2020.
https://patents.google.com/patent/WO2021094312A1/en

[689] S. Chatterjee, M. Guidi, P. Seeberger and K. Gilmore, "Automated radial synthesis of organic molecules," Nature, vol. 579, pp. 379-384, 2020.
https://www.nature.com/articles/s41586-020-2083-5

[688] D. Heard and A. Lennox, "Minimal manual input," Nat Chem, vol. 12, no. 2, pp. 113-114, 2020.
https://www.nature.com/articles/s41557-019-0416-5

[687] S. Han, M. A. Kashfipour, M. Ramezani, M. Abolhasani "Accelerating gas-liquid chemical reactions in flow," *Chemical Communications,* no. 73, 2020.
https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc03511d#:~:text=The%20tube%2Din%2Dtube%20flow,toxic%20and%20flammable%20gases%20or

[686] E. Farrant, "Automation of synthesis in medicinal chemistry: progress and challenges," *ACS Medicinal Chemistry Letters,* vol. 11, no. 8, pp. 1506-1513, 2020.
https://pubs.acs.org/doi/10.1021/acsmedchemlett.0c00292

[685] S. Ötvös and C. Kappe, "Continuous-Flow Amide and Ester Reductions Using Neat Borane Dimethylsulfide Complex," ChemSusChem, 2020.
https://onlinelibrary.wiley.com/doi/abs/10.1002/cssc.201903459

[684] M. Shea, U. Mansoor and B. Hopkins, "A Metallaphotoredox Method for the Expansion of Benzyl SAR on Electron-Deficient Amines," Org. Lett., vol. 22, no. 3, pp. 1052-1055, 2020.
https://pubs.acs.org/doi/abs/10.1021/acs.orglett.9b04587

[683] M. Chaudhari, K. Jayan and B. Gnanaprakasam, "Sn-Catalyzed Criegee-Type Rearrangement of Peroxyoxindoles Enabled by Catalytic Dual Activation of Esters and Peroxides," J. Org. Chem., vol. 85, no. 5, pp. 3374-3382, 2020.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b03160

[682] C. Bracken and M. Baumann, "Development of a Continuous Flow Photoisomerization Reaction Converting Isoxazoles into Diverse Oxazole Products," J. Org. Chem., vol. 85, no. 4, pp. 2607-2617, 2020.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b03399

[681] B. Park, M. Pirnot and S. Buchwald, "Visible Light-Mediated (Hetero)aryl Amination Using Ni(II) Salts and Photoredox Catalysis in Flow: A Synthesis of Tetracaine," J. Org. Chem., vol. 85, no. 5, pp. 3234-3244, 2020.
https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b03107

[680] A. Folgueiras-Amador, A. Teuten, D. Pletcher and R. Brown, "A design of flow electrolysis cell for 'Home' fabrication," React. Chem. Eng., vol. 5, no. 4, pp. 712-718, 2020.
https://pubs.rsc.org/en/content/articlehtml/2020/re/d0re00019a

[679] D. Fitzpatrick, M. O'Brien and S. Ley, "A tutored discourse on microcontrollers, single board computers and their applications to monitor and control chemical reactions," React. Chem. Eng., vol. 5, no. 2, pp. 201-220, 2020. https://pubs.rsc.org/en/content/articlehtml/2020/re/c9re00407f

[678] N. Weeranoppanant and A. Adamo, "In-Line Purification: A Key Component to Facilitate Drug Synthesis and Process Development in Medicinal Chemistry," ACS Med Chem Lett, vol. 11, no. 1, pp. 9-15, 2020. https://pubs.acs.org/doi/abs/10.1021/acsmedchemlett.9b00491

[677] F. Tentori, E. Brenna, M. Crotti, G. Pedrocchi-Fantoni, M. Ghezzi and D. Tessaro, "Continuous-Flow Biocatalytic Process for the Synthesis of the Best Stereoisomers of the Commercial Fragrances Leather Cyclohexanol (4-Isopropylcyclohexanol) and Woody Acetate (4-(Tert-Butyl)Cyclohexyl Acetate)," Catalysts, vol. 10, no. 1, p. 102, 2020. https://www.mdpi.com/2073-4344/10/1/102

[676] M. Hosoya, S. Nishijima and N. Kurose, "Investigation into an Unexpected Impurity: A Practical Approach to Process Development for the Addition of Grignard Reagents to Aldehydes Using Continuous Flow Synthesis," Org. Process Res. Dev., vol. 24, no. 3, pp. 405414, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00515

[675] L. Tamborini, C. Previtali, F. Annunziata, T. Bavaro, M. Terreni, E. Calleri, F. Rinaldi, A. Pinto, G. Speranza, D. Ubiali and P. Conti, "An Enzymatic Flow-Based Preparative Route to Vidarabine," Molecules, vol. 25, no. 5, 2020. https://www.mdpi.com/1420-3049/25/5/1223

[674] P. Luque Navarro and D. Lanari, "Flow Synthesis of Biologically-Relevant Compound Libraries," Molecules, vol. 25, no. 4, 2020. https://www.mdpi.com/1420-3049/25/4/909

[673] M. Di Filippo, C. Bracken and M. Baumann, "Continuous Flow Photochemistry for the Preparation of Bioactive Molecules," Molecules, vol. 25, no. 2, 2020. https://www.mdpi.com/1420-3049/25/2/356

[672] J. Baker, C. Russell, J. Gilbert, J. Sakoff and A. McCluskey, "Amino Alcohol Acrylonitriles as Activators of the Aryl Hydrocarbon Receptor Pathway: An Unexpected MTT Phenotypic Screening Outcome," ChemMedChem, vol. 15, no. 6, pp. 490-505, 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/cmdc.201900643

[671] K. Omoregbee, K. Luc, A. Dinh and T. Nguyen, "Tropylium-promoted prenylation reactions of phenols in continuous flow," J Flow Chem, vol. 10, no. 1, pp. 161-166, 2020. https://link.springer.com/article/10.1007/s41981-020-00082-w

[670] S. Govaerts, A. Nyuchev and T. Noel, "Pushing the boundaries of C–H bond functionalization chemistry using flow technology," J Flow Chem, vol. 10, no. 1, pp. 13-71, 2020. https://link.springer.com/article/10.1007/s41981-020-00077-7

[669] C. Thomson, C. Jones, G. Rosair, D. Ellis, J. Marques-Hueso, A. Lee and F. Vilela, "Continuousflow synthesis and application of polymer-supported BODIPY Photosensitisers for the generation of singlet oxygen; process optimised by in-line NMR spectroscopy," J Flow Chem, vol. 10, no. 1, pp. 327-345, 2020. https://link.springer.com/article/10.1007/s41981-019-00067-4

[668] M. Ramezani, M. Kashfipour and M. Abolhasani, "Minireview: Flow chemistry studies of high-pressure gas-liquid reactions with carbon monoxide and hydrogen," J Flow Chem, vol. 10, no. 1, pp. 93-101, 2020. https://link.springer.com/article/10.1007/s41981-019-00059-4

[667] S. Maljuric, W. Jud, C. Kappe and D. Cantillo, "Translating batch electrochemistry to singlepass continuous flow conditions: an organic chemist's guide," J Flow Chem, vol. 10, no. 1, pp. 181-190, 2020. https://link.springer.com/article/10.1007/s41981-019-00050-z

[666] B. Li, S. Bader, S. Guinness, S. Ruggeri, C. Hayward, S. Hoagland, J. Lucas, R. Li, D. Limburg, J. McWilliams, J. Raggon and J. Van Alsten, "Continuous flow aminolysis under high temperature and pressure," J Flow Chem, vol. 10, no. 1, pp. 145-156, 2020. https://link.springer.com/article/10.1007/s41981-019-00049-6

[665] G. Meir, M. Leblebici, S. Kuhn and T. Van Gerven, "Principles of co-axial illumination for photochemical reactors: Part 2. Model Validation," Jnl Adv Manuf ; Process, 2020. https://aiche.onlinelibrary.wiley.com/doi/abs/10.1002/amp2.10045

[664] C. Allais, E. Hansen, N. Ide, R. Perkins and E. Swift, "Selected Free Radical Reactions," Practical Synthetic Organic Chemistry, pp. 563-589, 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119448914.ch11

[663] M. Guberman, "Development of Synthetic Strategies to Address Bottlenecks in Glycan Synthesis," Thesis, 2020. https://refubium.fu-berlin.de/handle/fub188/26983

[662] A. Ryder, W. Cunningham, G. Ballantyne, T. Mules, A. Kinsella, J. Turner-Dore, C. Alder, L. Edwards, B. McKay, M. Grayson and A. Cresswell, "Unmasked Primary Amines as CNucleophiles for Catalytic C–C Bond-Formation," ChemRxiv, 2020. https://chemrxiv.org/articles/Unmasked_Primary_Amines_as_C-Nucleophiles_for_Catalytic_ C_C_Bond-Formation/11841489

[661] W. He, Y. Gao, G. Zhu, H. Wu, Z. Fang and K. Guo, "Microfluidic synthesis of fatty acid esters: Integration of dynamic combinatorial chemistry and scale effect," *Chemical Engineering Journal,* 2020. https://www.sciencedirect.com/science/article/pii/S1385894719321242

[660] H. Qin, C. Liu, N. Lv, W. He, J. Meng, Z. Fang and K. Guo, "Continuous and green microflow synthesis of azobenzene compounds catalyzed by consecutively prepared tetrahedron CuBr," *Dyes and Pigments,* vol. 174, p. 108071, 2020. https://www.sciencedirect.com/science/article/pii/S0143720819321138

[659] A. Ryder, W. Cunningham, G. Ballantyne, T. Mules, A. Kinsella, J. Turner-Dore, C. Alder, L. Edwards, B. McKay, M. Grayson and A. Cresswell, "Photocatalytic α-Tertiary Amine Synthesis via C-H Alkylation of Unmasked Primary Amines," *Angew. Chem. Int. Ed. Engl.,* 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202005294

[658] M. Van De Walle, K. De Bruycker, J. Blinco and C. Barner-Kowollik, "Two Colour Photoflow Chemistry for Macromolecular Design," *Angew. Chem. Int. Ed. Engl.,* 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202003130

[657] E. Corcoran, J. McMullen, F. Lévesque, M. Wismer and J. Naber, "Photon Equivalents as a Parameter for Scaling Photoredox Reactions in Flow: Translation of Photocatalytic C-N CrossCoupling from Lab Scale to Multikilogram Scale," *Angew. Chem. Int. Ed. Engl.,* 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201915412

[656] C. Schotten, T. Nicholls, R. Bourne, N. Kapur, B. Nguyen and C. Willans, "Making electrochemistry easily accessible to the synthetic chemist," *Green Chem.,* vol. 22, no. 11, pp. 3358-3375, 2020. https://pubs.rsc.org/--/content/articlehtml/2020/gc/d0gc01247e

[655] E. Sletten, J. Danglad-Flores, M. Nuño, D. Guthrie and P. Seeberger, "Automated Glycan Assembly in a Variable-Bed Flow Reactor Provides Insights into Oligosaccharide-Resin Interactions," *Org. Lett.,* vol. 22, no. 11, pp. 4213-4216, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.0c01264

[654] S. Anand, S. Mardhekar, R. Raigawali, N. Mohanta, P. Jain, C. D Shanthamurthy, B. Gnanaprakasam and R. Kikkeri, "Continuous-Flow Accelerated Sulfation of Heparan Sulfate Intermediates," *Org. Lett.,* vol. 22, no. 9, pp. 3402-3406, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.0c00878

[653] M. Levenstein, L. Wayment, C. Scott, R. Lunt, P. Flandrin, S. Day, C. Tang, C. Wilson, F. Meldrum, N. Kapur and K. Robertson, "Dynamic Crystallization Pathways of Polymorphic Pharmaceuticals Revealed in Segmented Flow with Inline Powder X-ray Diffraction," *Anal. Chem.,* vol. 92, no. 11, pp. 7754-7761, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.analchem.0c00860

[652] C. Hunter, M. Boyd, G. May and R. Fimognari, "Visible-Light-Mediated N-Desulfonylation of N-Heterocycles Using a Heteroleptic Copper(I) Complex as a Photocatalyst," *J. Org. Chem.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.0c00983

[651] M. Ruggeri, A. Dombrowski, S. Djuric and I. Baxendale, "Rearrangement of 3-Hydroxyazetidines into 2-Oxazolines," *J. Org. Chem.,* vol. 85, no. 11, pp. 7276-7286, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.0c00656

[650] N. Mohanta, K. Nair, D. Sutar and B. Gnanaprakasam, "Continuous-Flow Approach for the Multi-Gram Scale Synthesis of C2-Alkyl- or β-Amino Functionalized 1,3-Dicarbonyl Derivatives and Ondansetron Drug Using 1,3-Dicarbonyls," *React. Chem. Eng.,* 2020. https://pubs.rsc.org/en/content/articlehtml/2020/re/d0re00171f

[649] W. He, P. Kang, Z. Fang, J. Hao, H. Wu, Y. Zhu and K. Guo, "Flow Reactor Synthesis of BioBased Polyol from Soybean Oil for the Production of Rigid Polyurethane Foam," *Ind. Eng. Chem. Res.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.iecr.0c01175

[648] T. Vieira, A. Stevens, A. Chtchemelinine, D. Gao, P. Badalov and L. Heumann, "Development of a Large-Scale Cyanation Process Using Continuous Flow Chemistry En Route to the Synthesis of Remdesivir," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00172

[647] T. Phung Hai, L. De Backer, N. Cosford and M. Burkart, "Preparation of Mono- and Diisocyanates in Flow from Renewable Carboxylic Acids," *Org. Process Res. Dev.,* 2020. http://dx.doi.org/10.1021/acs.oprd.0c00167

[646] N. Uhlig, A. Martins and D. Gao, "Selective DIBAL-H Monoreduction of a Diester Using Continuous Flow Chemistry: From Benchtop to Kilo Lab," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00158

[645] W. Debrouwer, W. Kimpe, R. Dangreau, K. Huvaere, H. Gemoets, M. Mottaghi, S. Kuhn and K. Van Aken, "Ir/Ni Photoredox Dual Catalysis with Heterogeneous Base Enabled by an Oscillatory Plug Flow Photoreactor," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00150

[644] J. de Souza, M. Berton, D. Snead and D. McQuade, "A Continuous Flow Sulfuryl ChlorideBased Reaction—Synthesis of a Key Intermediate in a New Route toward Emtricitabine and Lamivudine," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00146

[643] B. Li, G. Weisenburger and J. McWilliams, "Practical Considerations and Examples in Adapting Amidations to Continuous Flow Processing in Early Development," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00112

[642] M. Hosoya, S. Nishijima and N. Kurose, "Management of the Heat of Reaction under Continuous Flow Conditions Using In-Line Monitoring Technologies," *Org. Process Res. Dev.,* vol. 24, no. 6, pp. 1095-1103, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00109

[641] O. Dennehy, D. Lynch, S. Collins, A. Maguire and H. Moynihan, "Scale-up and Optimization of a Continuous Flow Synthesis of an α-Thio-β-chloroacrylamide," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00079

[640] M. Berton, K. Sheehan, A. Adamo and D. McQuade, "Disposable cartridge concept for the on-demand synthesis of turbo Grignards, Knochel-Hauser amides, and magnesium alkoxides," *Beilstein J Org Chem,* vol. 16, pp. 1343-1356, 2020. https://www.beilstein-journals.org/xiv/download/pdf/202040-pdf

[639] T. Wirth and N. Amri, "Accelerating Electrochemical Synthesis through Automated Flow: Efficient Synthesis of Chalcogenophosphites," *Synlett,* 2020. https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-00401707141

[638] T. Jamison, T. Monos, J. Jaworski and J. Stephens, "Continuous-Flow Synthesis of Tramadol from Cyclohexanone," *Synlett,* 2020. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0039-1690884

[637] W. Hung, Y. Chen, C. Chen, Y. Lee, J. Fang and W. Yang, "Flow Chemistry System for Carbohydrate Analysis by Rapid Labeling of Saccharides after Glycan Hydrolysis," *SLAS Technol,* 2020. https://journals.sagepub.com/doi/abs/10.1177/2472630320924620

[636] P. Kocienski, "Flow Synthesis of Anilines through Photoredox/Ni(II)-Catalyzed C–N CrossCoupling: Tetracaine," *Synfacts,* vol. 16, no. 6, p. 0745, 2020. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0040-1707527

[635] C. Huang, P. Chen, X. Liu and F. Li, "Metal–Organic Nanomaterials for Drug Delivery," *Polymers in Therapeutic Delivery,* pp. 79-95, 2020. https://pubs.acs.org/doi/abs/10.1021/bk-2020-1350.ch007

[634] T. Nicholls, C. Schotten and C. Willans, "Electrochemistry in continuous systems," *Current Opinion in Green and Sustainable Chemistry,* 2020. https://www.sciencedirect.com/science/article/abs/pii/S2452223620300444#:~:text=Electrochemistry%20in%20continuous%20systems%E2%98%86&text=The%20use%20of%20continuous%20flow,electrochemical%20reactors%20and%20their%20application

[633] A. Caron, "I: Synthèse de carbazole en débit continu. II: Transfert de proton couplé à l\'électron photocatalysé au cuivre," *Thesis,* 2020. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/23400

[632] R. Sullivan, "Improving Efficiency by Using Continuous Flow to Enable Cycles: PseudoCatalysis, Catalysis and Kinetics," *Thesis,* 2020. https://ruor.uottawa.ca/handle/10393/40387

[631] G. Laudadio, "Chapter 3 - C(sp3)–H Functionalizations of Light Hydrocarbons using Decatungstate Photocatalysis," in *New synthetic methods enabled by photochemistry and electrochemistry in flow.*, Technische Universiteit Eindhoven, pp. 45-78, 2020. https://pure.tue.nl/ws/portalfiles/portal/149778750/20200507_Laudadio.pdf#page=56

[630] G. Laudadio, "C(sp3)–H functionalizations of light hydrocarbons using decatungstate photocatalysis in flow," *Science,* vol. 369, no. 6499, pp. 92-96, 2020. https://www.science.org/doi/10.1126/science.abb4688

[629] S. Khillari, "Flow Chemistry Market Analysis| Recent Industry Trends Report, 2026," *Thesis,* 2020. https://works.bepress.com/shweta/403/download/

[628] M. Oelgemoeller and D. Guthrie, "Continuous-flow photochemistry made easy with Vapourtec\'s photoreactor series," *EPA Newsletters,* vol. 97, pp. 38-42, 2020. https://researchonline.jcu.edu.au/62375/

[627] P. Sharanyakanth and M. Radhakrishnan, "Synthesis of metal-organic frameworks (MOFs) and its application in food packaging: A critical review," *Trends in Food Science & Technology,* vol. 104, pp. 102-116, 2020. https://www.sciencedirect.com/science/article/pii/S0924224420305628

[626] Z. Li, T. Bavaro, S. Tengattini, R. Bernardini, M. Mattei, F. Annunziata, R. Cole, C. Zheng, M. Sollogoub, L. Tamborini, M. Terreni and Y. Zhang, "Chemoenzymatic synthesis of arabinomannan (AM) glycoconjugates as potential vaccines for tuberculosis," *Eur J Med Chem,* vol. 204, p. 112578, 2020. https://www.sciencedirect.com/science/article/pii/S022352342030550X

[625] K. Behm, E. Fazekas, M. Paterson, F. Vilela and R. McIntosh, "Discrete Ti-O-Ti Complexes: Visible-Light-Activated, Homogeneous Alternative to TiO2 Photosensitisers," *Chemistry (Weinheim an der Bergstrasse, Germany),* vol. 26, no. 43, pp. 9486-9494, 2020. https://pureapps2.hw.ac.uk/ws/files/41795788/chem.202001678_1_.pdf

[624] J. Wilson, M. Boyd, S. Giroux and U. Bandarage, "Application of a Dual Catalytic Nickel/Iridium-Based Photoredox Reaction to Synthesize 2-Alkyl-N-Arylindoles in a Continuous Flow," *J. Org. Chem.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.0c01809

[623] A. Ubale, M. Chaudhari, M. Shaikh and B. Gnanaprakasam, "Manganese-Catalyzed Synthesis of Quaternary Peroxides: Application in Catalytic Deperoxidation and Rearrangement Reactions," *J. Org. Chem.,* vol. 85, no. 16, pp. 10488-10503, 2020. https://pubs.acs.org/doi/abs/10.1021/acs.joc.0c00837

[622] S. Lee, Y. Malpani and I. Kim, "Development of a packed-bed flow process for the production scale hydrogenation of 7-oxo-lithocholic acid to ursodeoxycholic acid," *J Flow Chem,* 2020. https://link.springer.com/article/10.1007/s41981-020-00108-3

[621] E. López, M. Linares and J. Alcázar, "Flow chemistry as a tool to access novel chemical space for drug discovery," *Future Med Chem,* vol. 12, no. 17, pp. 1547-1563, 2020. https://www.future-science.com/doi/abs/10.4155/fmc-2020-0075

[620] F. Annunziata, M. Letizia Contente, D. Betti, C. Pinna, F. Molinari, L. Tamborini and A. Pinto, "Efficient Chemo-Enzymatic Flow Synthesis of High Value Amides and Esters," *Catalysts,* vol. 10, no. 8, p. 939, 2020. https://www.mdpi.com/2073-4344/10/8/939

[619] M. Carrera, L. De Coen, M. Coppens, W. Dermaut and C. Stevens, "A Vilsmeier Chloroformylation by Continuous Flow Chemistry," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00318

[618] G. Mathieu, H. Patel and H. Lebel, "Convenient Continuous Flow Synthesis of N-Methyl Secondary Amines from Alkyl Mesylates and Epoxides," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00193

[617] M. Sezen-Edmonds, J. Tabora, B. Cohen, S. Zaretsky, E. Simmons, T. Sherwood and A. Ramirez, "Predicting Performance of Photochemical Transformations for Scaling Up in Different Platforms by Combining High-Throughput Experimentation with Computational Modeling," *Org. Process Res. Dev.,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00182

[616] P. Knochel, R. Nishimura and N. Weidmann, "Preparation of Diorganomagnesium Reagents by Halogen–Lithium Exchange of Functionalized Heteroaryl Halides and Subsequent in situ Trapping with MgCl2·LiCl in Continuous Flow," *Synthesis,* 2020. https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0040-1707167

[615] T. Maschmeyer, P. Prieto, S. Grunert and J. Hein, "Exploration of continuous-flow benchtop NMR acquisition parameters and considerations for reaction monitoring," *Magn Reson Chem,* 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/mrc.5094

[614] I. Baxendale, O. Griffiths and M. Ruggeri, "Photochemical Flow Oximation of Alkanes," *Synlett,* 2020. https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0040-1707281

[613] F. Pfrengle, "Automated Glycan Assembly of Plant Cell Wall *Oligosaccharides," Methods Mol. Biol.,* pp. 503-512, 2020. https://link.springer.com/protocol/10.1007/978-1-0716-0621-6_28

[612] D. Paymode, F. Cardoso, J. Sieber, J. Tomlin, D. Cook, J. Burns, R. Stringham, B. Gupton, D. Snead and T. Agrawal, "Toward Secure Supply of Remdesivir via a 2-Pot Triazine Synthesis: Supply Centered Synthesis," *ChemRxiv,* 2020. http://itempdf74155353254prod.s3.amazonaws.com/12751124/Toward_Secure_Supply_of_Remdesivir_via_a_2-Pot_Triazine_Synthesis_Supply_Centered_Synthesis_v1.pdf

[611] M. Catalán, V. Castro-Castillo, J. Gajardo-de la Fuente, J. Aguilera, J. Ferreira, R. RamiresFernandez, I. Olmedo, A. Molina-Berríos, C. Palominos, M. Valencia, M. Domínguez, J. Souto and J. Jara, "Continuous flow synthesis of lipophilic cations derived from benzoic acid as new cytotoxic chemical entities in human head and neck carcinoma cell lines," *RSC Med. Chem.,* 2020. https://pubs.rsc.org/lv/content/articlehtml/2020/md/d0md00153h

[610] M. Santi, "Novel applications of α-Diazocarbonyl compounds and enabling technologies in stereoselective synthesis," *Thesis,* 2020. http://orca.cf.ac.uk/id/eprint/134006

[609] R. Zadravec and I. Vujasinović, "SUZUKI COUPLING IN CONTINUOUS FLOW: EFFICIENT APPLICATION IN LIBRARY SYNTHESIS," *Thesis,* 2020. https://fidelta.eu/cms/wp-content/uploads/2020/07/Poster_2018_Zadravec_Vujasinovic_Ur bino_Suzuki-coupling-in-continuous-flow.pdf

[608] J. Wang, X. Hu, N. Zhu and K. Guo, "Continuous Flow Photo-RAFT and Light-PISA," *Chemical Engineering Journal,* 2020. https://www.sciencedirect.com/science/article/pii/S1385894720337852

[607] T. Goodine and M. Oelgemöller, "Corymbia citriodora : A Valuable Resource from Australian Flora for the Production of Fragrances, Repellents, and Bioactive Compounds," *ChemBioEng Reviews,* vol. 7, no. 6, pp. 170-192, 2020. https://onlinelibrary.wiley.com/doi/abs/10.1002/cben.202000013

[606] P. Zardi, M. Maggini and T. Carofiglio, "Achieving selectivity in porphyrin bromination through a DoE-driven optimization under continuous flow conditions," *Journal of Flow Chemistry,* 2020. https://link.springer.com/article/10.1007/s41981-020-00131-4

[605] A. Price, A. Capel, R. Lee, P. Pradel and S. Christie, "An open source toolkit for 3D printed fluidics," *Journal of Flow Chemistry,* 2020. https://link.springer.com/article/10.1007/s41981-020-00117-2

[604] N. Sugisawa, H. Nakamura and S. Fuse, "Recent Advances in Continuous-Flow Reactions Using Metal-Free Homogeneous Catalysts," *Catalysts,* vol. 10, no. 11, p. 1321, 2020. https://www.mdpi.com/2073-4344/10/11/1321

[603] P. De Santis, L. Meyer and S. Kara, "The rise of continuous flow biocatalysis – fundamentals, very recent developments and future perspectives," *Reaction Chemistry & Engineering,* vol. 5, no. 12, pp. 2155-2184, 2020. https://pubs.rsc.org/--/content/articlehtml/2020/re/d0re00335b

[601] A. Ładosz, C. Kuhnle and K. Jensen, "Characterization of reaction enthalpy and kinetics in a microscale flow platform," *Reaction Chemistry & Engineering,* vol. 5, no. 11, pp. 2115-2122, 2020. https://pubs.rsc.org/en/content/articlehtml/2020/re/d0re00304b

[601] R. Ma, J. Feng, K. Zhang, B. Zhang and D. Du, "Photoredox β-thiol-α-carbonylation of enones accompanied by unexpected Csp2-C(CO) bond cleavage," *Organic & biomolecular chemistry,* vol. 18, no. 38, pp. 7549-7553, 2020. https://minerva-access.unimelb.edu.au/handle/11343/251398

[600] M. Graham, G. Noonan, J. Cherryman, J. Douglas, M. Gonzalez, L. Jackson, K. Leslie, Z. Liu, D. McKinney, R. Munday, C. Parsons, D. Whittaker, E. Zhang and J. Zhang, "Development and Proof of Concept for a Large-Scale Photoredox Additive-Free Minisci Reaction," *Organic Process Research & Development,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00483

[599] M. Baumann, A. Leslie, T. Moody, M. Smyth and S. Wharry, "Tandem Continuous Flow Curtius Rearrangement and Subsequent Enzyme-Mediated Impurity Tagging," *Organic Process Research & Development,* 2020. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.0c00420

[598] J. Grayson and A. Cresswell, "γ-Amino phosphonates via the photocatalytic α-C–H alkylation of primary amines," *Tetrahedron,* 2020. https://www.sciencedirect.com/science/article/pii/S0040402020311601

[597] P. Sagmeister, R. Lebl, I. Castillo, J. Rehrl, M. Horn, J. Kruisz, M. Sipek, S. Sacher, D. Cantillo, J. Williams and C. Kappe, "Advanced Real-Time Process Analytics for Multistep Synthesis in Continuous Flow," *ChemRxiv,* 2020. https://chemrxiv.org/ndownloader/files/25626863

[596] S. Das, K. Murugesan, G. RODRIGUEZ, J. Kaur, J. Barham, A. Savateev, M. Antonietti and B. Koenig, "Photocatalytic (Hetero)Arylation of C(sp3)–H Bonds with Carbon Nitride," *Photocatalytic (Hetero)Arylation,* 2020. https://pure.mpg.de/rest/items/item_3262471/component/file_3262476/content

[595] P. Cranwell, "Recent Advances Towards the Inclusion of Flow Chemistry within the Undergraduate Practical Class Curriculum," *SynOpen,* vol. 04, no. 04, pp. 96-98, 2020. http://dx.doi.org/10.1055/s-0040-1719539

[594] M. Ruggeri, "Exploring Flow Chemistry for the Synthesis and Scale-up of Small Organic Molecules," *Thesis,* 2020. http://etheses.dur.ac.uk/13768

[593] Y. Du, "Synthesis and application of organoboron compounds for catalytic amide formation and bifunctional catalysis," *Thesis,* 2020. http://etheses.dur.ac.uk/13731/1/Thesis_-_Final_-_YihaoDu_(000646710).pdf

[592] N. Weidmann, "Preparation of lithium, sodium and potassium organometallics by metalation and halogen/metal exchange in continuous flow," *Thesis,* 2020. https://edoc.ub.uni-muenchen.de/26873/1/Weidmann_Niels.pdf

2019

Year total: 95

[591] M. Elsherbini and T. Wirth, "Electroorganic Synthesis under Flow Conditions," *Acc. Chem. Res.,* vol. 52, no. 12, pp. 3287-3296, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.accounts.9b00497

[590] D. Caputo, M. Casiello, A. Laurenza, F. Fracassi, C. Fusco, A. Nacci and L. D'Accolti, "Preparation of Biowax Esters in Continuous Flow Conditions," *ACS Omega,* vol. 4, no. 7, pp. 12286-12292, 2019. https://pubs.acs.org/doi/abs/10.1021/acsomega.9b00861

[589] R. Lebl, T. Murray, A. Adamo, D. Cantillo and C. Kappe, "Continuous Flow Synthesis of Methyl Oximino Acetoacetate: Accessing Greener Purification Methods with Inline Liquid– Liquid Extraction and Membrane Separation Technology," *ACS Sustainable Chem. Eng.,* vol. 7, no. 24, pp. 20088-20096, 2019. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.9b05954

[588] C. Bottecchia, R. Martín, I. Abdiaj, E. Crovini, J. Alcazar, J. Orduna, M. Blesa, J. Carrillo, P. Prieto and T. Noël, "De novo Design of Organic Photocatalysts: Bithiophene Derivatives for the Visible-light Induced C−H Functionalization of Heteroarenes," *Adv. Synth. Catal.,* vol. 361, no. 5, pp. 945-950, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.201801571

[587] H. Seo, L. Nguyen and T. Jamison, "Using Carbon Dioxide as a Building Block in Continuous Flow Synthesis," *Adv. Synth. Catal.,* vol. 361, no. 2, pp. 247-264, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.201801228

[586] M. Elsherbini, B. Winterson, H. Alharbi, A. Folgueiras-Amador, C. Génot and T. Wirth, "Elektrochemischer Durchlaufgenerator für hypervalente Iodreagenzien: Synthetische Anwendungen," *Angew. Chem.,* pp. 9916-9920, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.201904379b

[585] W. Konrad, C. Fengler, S. Putwa and C. Barner-Kowollik, "Protection Group Free Synthesis of Sequence-Defined Macromolecules via Precision λ-Orthogonal Photochemistry," *Angew. Chem. Int. Ed. Engl.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201901933

[584] M. Elsherbini, B. Winterson, H. Alharbi, A. Folgueiras-Amador, C. Génot and T. Wirth, "Continuous-Flow Electrochemical Generator of Hypervalent Iodine Reagents: Synthetic Applications," *Angew. Chem. Int. Ed. Engl.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201904379

[583] X. Wei, I. Abdiaj, C. Sambiagio, C. Li, E. Zysman-Colman, J. Alcázar and T. Noël, "Visible-LightPromoted Iron-Catalyzed C(sp2)-C(sp3) Kumada Cross-Coupling in Flow," *Angew. Chem. Int. Ed. Engl.,* vol. 58, no. 37, pp. 13030-13034, 2019. https://pure.tue.nl/ws/files/137381319/20191105_Wei.pdf#page=120

[582] S. Kim, J. Lee, N. Kim and B. Park, "Visible-Light-Mediated Cross-Couplings and C−H Activation via Dual Photoredox/ Transition-Metal Catalysis in Continuous-Flow Processes," *Asian J. Org. Chem.,* vol. 8, no. 9, pp. 1578-1587, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ajoc.201900354

[581] M. York, K. Jarvis, J. Freemont, J. Ryan, G. Savage, S. Logan and L. Bright, "A Scalable, Combined-Batch, and Continuous-Flow Synthesis of a Bio-Inspired UV-B Absorber," *Aust. J. Chem.,* 2019. http://www.publish.csiro.au/CH/CH19252

[580] A. Parihar and S. Bhattacharya, "Cellulose fast pyrolysis for platform chemicals: assessment of potential targets and suitable reactor technology," *Biofuels, Bioprod. Bioref.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/bbb.2066

[579] M. Gojun, A. Šalić, A. Tušek, D. Valinger and M. Tišma, "The Smaller, The Better–Microtechnology for a Macroresults," in *Engineering Power: Bulletin of the Croatian Academy of Engineering*, 2019, pp. 2-7. https://www.hatz.hr/wp-content/uploads/2019/11/Engeneering-Power-2019-03-za-web.pdf

[578] A. Macchi, P. Plouffe, G. Patience and D. Roberge, "Experimental Methods in Chemical Engineering: Micro-Reactors," *Can. J. Chem. Eng.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/cjce.23525

[577] D. Roura Padrosa, V. De Vitis, M. Contente, F. Molinari and F. Paradisi, "Overcoming Water Insolubility in Flow: Enantioselective Hydrolysis of Naproxen Ester," *Catalysts,* vol. 9, no. 3, p. 232, 2019. https://www.mdpi.com/2073-4344/9/3/232

[576] V. De Vitis, F. Dall'Oglio, F. Tentori, M. Contente, D. Romano, E. Brenna, L. Tamborini and F. Molinari, "Bioprocess Intensification Using Flow Reactors: Stereoselective Oxidation of Achiral 1,3-diols with Immobilized Acetobacter Aceti," *Catalysts,* vol. 9, no. 3, p. 208, 2019.
https://www.mdpi.com/2073-4344/9/3/208

[575] Y. Du, T. Barber, S. Lim, H. Rzepa, I. Baxendale and A. Whiting, "A solid-supported arylboronic acid catalyst for direct amidation," *Chem. Commun. (Camb.),* vol. 55, no. 20, pp. 2916-2919, 2019.
https://pubs.rsc.org/en/content/articlehtml/2019/cc/c8cc09913h

[574] C. Lau, T. Lu, S. Sun, X. Chen, M. Carta and D. Dawson, "Continuous flow knitting of a triptycene hypercrosslinked polymer," *Chem. Commun. (Camb.),* vol. 55, no. 59, pp. 85718574, 2019.
https://pubs.rsc.org/en/content/articlehtml/2019/cc/c9cc03731d

[573] E. Sletten, M. Nuño, D. Guthrie and P. Seeberger, "Real-time monitoring of solid-phase peptide synthesis using a variable bed flow reactor," *Chem. Commun. (Camb.),* vol. 55, no. 97, pp. 14598-14601, 2019.
https://pubs.rsc.org/ko/content/articlehtml/2019/cc/c9cc08421e

[572] M. Contente and F. Paradisi, "Transaminase-catalyzed continuous synthesis of biogenic aldehydes," *Chembiochem,* 2019.
https://onlinelibrary.wiley.com/doi/abs/10.1002/cbic.201900356

[571] R. Semproli, G. Vaccaro, E. Ferrandi, M. Vanoni, T. Bavaro, G. Marrubini, F. Annunziata, P. Conti, G. Speranza, D. Monti, L. Tamborini and D. Ubiali, "Use of Immobilized Amine Transaminase from Vibrio fluvialis under Flow Conditions for the Synthesis of (S)-1-(5Fluoropyrimidin-2-yl)- ethanamine," *ChemCatChem,* 2019.
https://onlinelibrary.wiley.com/doi/abs/10.1002/cctc.201902080

[570] A. Shallan and C. Priest, "Microfluidic Process Intensification for Synthesis and Formulation in the Pharmaceutical Industry," *Chemical Engineering and Processing - Process Intensification,* 2019.
https://www.sciencedirect.com/science/article/pii/S0255270118315927

[569] P. Neumann, L. Cao, D. Russo, V. Vassiliadis and A. Lapkin, "A new formulation for symbolic regression to identify physico-chemical laws from experimental data," *Chemical Engineering Journal,* 2019.
http://dx.doi.org/10.1016/j.cej.2019.123412

[568] J. Wong, J. Tobin, F. Vilela and G. Barker, "Batch Versus Flow Lithiation-Substitution of 1,3,4Oxadiazoles: Exploitation of Unstable Intermediates Using Flow Chemistry," *Chemistry,* vol. 25, no. 53, pp. 12439-12445, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/chem.201902917

[567] M. Santi, J. Seitz, R. Cicala, T. Hardwick, N. Ahmed and T. Wirth, "Memory of Chirality in Flow Electrochemistry: Fast Optimisation with DoE and Online 2D-HPLC," *Chemistry,* vol. 25, no. 71, pp. 16230-16235, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/chem.201904711

[566] J. Williams, Y. Otake, G. Coussanes, I. Saridakis, N. Maulide and C. Kappe, "Towards a Scalable Synthesis of 2-Oxabicyclo[2.2.0]hex-5-en-3-one Using Flow Photochemistry," *ChemPhotoChem,* vol. 3, no. 5, pp. 229-232, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/cptc.201900017

[565] M. Ruggeri, A. Dombrowski, S. Djuric and I. Baxendale, "Photochemical Flow Synthesis of 3Hydroxyazetidines," *ChemPhotoChem,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/cptc.201900188

[564] M. Reis, T. Varner and F. Leibfarth, "The Influence of Residence Time Distribution on Continuous Flow Polymerization," *ChemRrivx,* 2019. https://chemrxiv.org/articles/The_Influence_of_Residence_Time_Distribution_on_Continuo us_Flow_Polymerization/7726166

[563] B. Cerra, M. Gabriele, M. Ricci, A. Schoubben and A. Gioiello, "In-flow flash nanoprecipitation of size-controlled D-leucine nanoparticles for spray-drying formulations," *ChemRxiv,* 2019. https://pubs.rsc.org/en/content/articlehtml/2019/re/c9re00242a

[562] L. Cao, D. Russo, V. Vassiliadis and A. Lapkin, "Identifying physico-chemical laws from the robotically collected data," *ChemRxiv,* 2019. https://chemrxiv.org/articles/Identifying_Physico-Chemical_Laws_from_the_Robotically_Coll ected_Data/8490149

[561] C. Mateos, "Lilly Research Award Program (LRAP): A Successful Academia-Industry Partnership Model in the Context of Flow Chemistry for Drug Discovery," *Chimia (Aarau),* vol. 73, no. 10, pp. 803-808, 2019. https://www.ingentaconnect.com/content/scs/chimia/2019/00000073/00000010/art00003

[560] S. Ley, Y. Chen, D. Fitzpatrick and O. May, "A New World for Chemical Synthesis?," *Chimia (Aarau),* vol. 73, no. 10, pp. 792-802, 2019. https://www.ingentaconnect.com/content/scs/chimia/2019/00000073/00000010/art00002

[559] S. Lai, X. Liao, H. Zhang, Y. Jiang, Y. Liu, S. Wang and X. Xiong, "Application of 3D Printing Technology in Organic Synthetic Chemistry," *Chin. J. Org. Chem.,* vol. 39, no. 7, p. 1858, 2019. http://manu19.magtech.com.cn/Jwk_yjhx/CN/article/downloadArticleFile.do?attachType=P DF;id=347058

[558] A. Zhakeyev, J. Tobin, H. Wang, F. Vilela and J. Xuan, "Additive manufacturing of photoactive polymers for visible light harvesting," *Energy Procedia,* vol. 158, pp. 5608-5614, 2019. https://www.sciencedirect.com/science/article/pii/S1876610219306034

[557] Y. Chen, D. Cantillo and C. Kappe, "Visible Light-Promoted Beckmann Rearrangements: Separating Sequential Photochemical and Thermal Phenomena in a Continuous Flow Reactor," *Eur. J. Org. Chem.,* pp. 2163-2171, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201900231

[556] N. Luise, E. Wyatt, G. Tarver and P. Wyatt, "A Continuous Flow Strategy for the Facile Synthesis and Elaboration of Semi-Saturated Heterobicyclic Fragments," *Eur. J. Org. Chem.,* pp. 1341-1349, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201801684

[555] F. Mortzfeld, J. Pietruszka and I. Baxendale, "A Simple and Efficient Flow Preparation of Pyocyanin a Virulence Factor of Pseudomonas aeruginosa," *Eur. J. Org. Chem.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201900526

[554] A. Barthelemy, G. Dagousset and E. Magnier, "Metal-Free Visible-Light-Mediated Hydrotrifluoro methylation of Unactivated Alkenes and Alkynes in Continuous Flow," *Eur. J. Org. Chem.,* 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201901252

[553] L. Rogers and K. Jensen, "Continuous manufacturing – the Green Chemistry promise?," *Green Chem.,* vol. 21, no. 13, pp. 3481-3498, 2019. https://pubs.rsc.org/en/content/articlehtml/2019/gc/c9gc00773c

[552] D. Bošković, "Reaktoren für spezielle technisch-chemische Prozesse: Mikrostrukturreaktoren," *Handbuch Chemische Reaktoren,* 2019. https://link.springer.com/content/pdf/10.1007/978-3-662-56444-8_44-1.pdf

[551] L. Amini-Rentsch, E. Vanoli, S. Richard-Bildstein, R. Marti and G. Vilé, "A Novel and Efficient Continuous-Flow Route To Prepare Trifluoromethylated N-Fused Heterocycles for Drug Discovery and Pharmaceutical Manufacturing," *Ind. Eng. Chem. Res.,* vol. 58, no. 24, pp. 10164-10171, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.iecr.9b01906

[550] T. von Keutz, D. Cantillo and C. Kappe, "Enhanced mixing of biphasic liquid-liquid systems for the synthesis of gem-dihalocyclopropanes using packed bed reactors," *J Flow Chem,* vol. 9, no. 1, pp. 27-34, 2019. https://link.springer.com/article/10.1007/s41981-018-0026-1

[549] A. Bouchard, V. Kairouz, M. Manneveau, H. Xiong, T. Besset, X. Pannecoucke and H. Lebel, "Continuous flow palladium-catalyzed trifluoromethylthiolation of C-H bonds," *J Flow Chem,* vol. 9, no. 1, 2019. https://link.springer.com/article/10.1007/s41981-018-0023-4

[548] G. Vilé, G. Schmidt, S. Richard-Bildstein and S. Abele, "Enantiospecific cyclization of methyl N-(tert-butoxycarbonyl)-N-(3-chloropropyl) D- alaninate to methylproline derivative via 'memory of chirality' in flow," *J Flow Chem,* vol. 9, no. 1, 2019. https://link.springer.com/article/10.1007/s41981-018-0022-5

[547] S. De Angelis, P. Celestini, R. Purgatorio, L. Degennaro, G. Rebuzzini, R. Luisi and C. Carlucci, "Development of a continuous flow synthesis of propranolol: tackling a competitive side reaction," *J Flow Chem,* 2019. https://link.springer.com/article/10.1007/s41981-019-00047-8

[546] A. Bogdan and A. Dombrowski, "Emerging Trends in Flow Chemistry and Applications to the Pharmaceutical Industry," *J. Med. Chem.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.8b01760

[545] W. Zhan, H. Hsu, T. Morgan, T. Ouellette, K. Burns-Huang, R. Hara, A. Wright, T. Imaeda, R. Okamoto, K. Sato, M. Michino, M. Ramjee, K. Aso, P. Meinke, M. Foley, C. Nathan, H. Li and G. Lin, "Selective Phenylimidazole-based Inhibitors of the Mycobacterium tuberculosis Proteasome," *J. Med. Chem.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.9b01187

[544] T. Sherwood, H. Xiao, R. Bhaskar, E. Simmons, S. Zaretsky, M. Rauch, R. Knowles and T. Dhar, Decarboxylative Intramolecular Arene Alkylation Using N-(Acyloxy)phthalimides, an Organic photocatalyst, and Visible Light," *J. Org. Chem.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b00432

[543] A. O'Brien, Y. Liu, M. Hughes, J. Lim, N. Hodnett and N. Falco, "Investigation of a Weak Temperature-Rate Relationship in the Carbamoylation of a Barbituric Acid Pharmaceutical Intermediate," *J. Org. Chem.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b00411

[542] B. Li, R. Li, P. Dorff, J. McWilliams, R. Guinn, S. Guinness, L. Han, K. Wang and S. Yu, "Deprotection of N-Boc Groups Under Continuous Flow High Temperature Conditions," *J. Org. Chem.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b02909

[541] N. Tosso, B. Desai, E. De Oliveira, J. Wen, J. Tomlin and B. Gupton, "A Consolidated and Continuous Synthesis of Ciprofloxacin from a Vinylogous Cyclopropyl Amide," *J. Org. Chem.,* vol. 84, no. 6, pp. 3370-3376, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b03222

[540] C. Crifar, F. Dücker, S. Nguyen Thanh, V. Kairouz and W. Lubell, "Heumann Indole Flow Chemistry Process," *J. Org. Chem.,* vol. 84, no. 17, pp. 10929-10937, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b01516

[539] S. Pollington, "10th International Symposium on Continuous Flow Reactor Technology for Industrial Applications," *Johnson Matthey Technology Review,* 2019. https://www.ingentaconnect.com/content/matthey/jmtr/pre-prints/content-jm_jmtr_pollijul19

[538] A. Pallipurath, P. Flandrin, L. Wayment, C. Wilson and K. Robertson, "In situ non-invasive Raman spectroscopic characterisation of succinic acid polymorphism during segmented flow crystallisation," *Mol. Syst. Des. Eng.,* 2019. https://pubs.rsc.org/lv/content/articlehtml/2020/me/c9me00103d

[537] R. Van Kerrebroeck, P. Naert, T. Heugebaert, M. D'hooghe and C. Stevens, "Electrophilic Bromination in Flow: A Safe and Sustainable Alternative to the Use of Molecular Bromine in Batch," *Molecules,* vol. 24, no. 11, 2019. https://www.mdpi.com/1420-3049/24/11/2116

[536] S. Mostarda, T. Gür Maz, A. Piccinno, B. Cerra and E. Banoglu, "Optimisation by Design of Experiment of Benzimidazol-2-One Synthesis under Flow Conditions," *Molecules,* vol. 24, no. 13, 2019. https://www.mdpi.com/1420-3049/24/13/2447

[535] S. Mumtaz, M. Robertson and M. Oelgemöller, "Continuous Flow Photochemical and Thermal Multi-Step Synthesis of Bioactive Arylmethylene-2,3-Dihydro-1H-Isoindolin-1Ones," *Molecules,* vol. 24, no. 24, 2019. https://www.mdpi.com/1420-3049/24/24/4527

[534] K. Donnelly, H. Zhang and M. Baumann, "Development of a Telescoped Flow Process for the Safe and Effective Generation of Propargylic Amines," *Molecules,* vol. 24, no. 20, 2019.
https://www.mdpi.com/1420-3049/24/20/3658

[533] N. Parvathalu, S. Agalave, N. Mohanta and B. Gnanaprakasam, "Reversible chemoselective transetherification of vinylogous esters using Fe-catalyst under additive free conditions," *Org. Biomol. Chem.,* vol. 17, no. 12, pp. 3258-3266, 2019.
https://pubs.rsc.org/en/content/articlehtml/2019/ob/c9ob00307j

[532] Y. Chen, O. May, D. Blakemore and S. Ley, "A Photoredox Coupling Reaction of Benzylboronic Esters and Carbonyl Compounds in Batch and Flow," *Org. Lett.,* vol. 21, no.15, pp. 6140-6144, 2019.
https://pubs.acs.org/doi/abs/10.1021/acs.orglett.9b02307

[531] Z. Brill, C. Ritts, U. Mansoor and N. Sciammetta, "Continuous Flow Enable Metallaphotoredox Catalysis in a Medicinal Chemistry Setting: Accelerated Optimization and Library Execution of a Reductive Coupling between Benzylic Chlorides and Aryl Bromides," *Org. Lett.,* 2019.
https://pubs.acs.org/doi/abs/10.1021/acs.orglett.9b04117

[530] N. Mohanta, M. Chaudhari, N. Digrawal and B. Gnanaprakasam, "Rapid and Multigram Synthesis of Vinylogous Esters under Continuous Flow: An Access to Transetherification and Reverse Reaction of Vinylogous Esters," *Org. Process Res. Dev.,* 2019.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00067

[529] Morin, J. Sosoe, M. Raymond, B. Amorelli, R. Boden and S. Collins, "Synthesis of a Renewable Macrocyclic Musk: Evaluation of Batch, Microwave, and Continuous Flow Strategies," *Org. Process Res. Dev.,* vol. 23, no. 2, pp. 283-287, 2019.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00450

[528] Y. Nakahara, B. Metten, O. Tonomura, A. Nagaki, S. Hasebe and J. Yoshida, "Modeling and Design of a Flow-Microreactor-Based Process for Synthesizing Ionic Liquids," *Org. Process Res. Dev.,* 2019.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00436

[527] A. Szelwicka, P. Zawadzki, M. Sitko, S. Boncel, W. Czardybon and A. Chrobok, "Continuous Flow Chemo-Enzymatic Baeyer–Villiger Oxidation with Superactive and Extra-Stable Enzyme/Carbon Nanotube Catalyst: An Efficient Upgrade from Batch to Flow," *Org. Process Res. Dev.,* 2019.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00132

[526] M. Littleson, A. Campbell, A. Clarke, M. Dow, G. Ensor, M. Evans, A. Herring, B. Jackson, L. Jackson, S. Karlsson, D. Klauber, D. Legg, K. Leslie, Moravčík, C. Parsons, T. Ronson and R. Meadows, "Synthetic Route Design of AZD4635, an A2AR Antagonist," *Org. Process Res. Dev.,* vol. 23, no. 7, pp. 1407-1419, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00171

[525] J. Lim, K. Arrington, A. Dunn, D. Leitch, I. Andrews, N. Curtis, M. Hughes, D. Tray, C. Wade, M. Whiting, C. Goss, Y. Liu and B. Roesch, "A Flow Process Built Upon a Batch Foundation – Preparation of a Key Amino-Alcohol Intermediate via Multi-Stage Continuous Synthesis," *Org. Process Res. Dev.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00478

[524] M. Guberman, B. Pieber and P. Seeberger, "Safe and Scalable Continuous Flow Azidophenylselenylation of Galactal to Prepare Galactosamine Building Blocks," *Org. Process Res. Dev.,* vol. 23, no. 12, pp. 2764-2770, 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00456

[523] B. Gleede, M. Selt, C. Gütz, A. Stenglein and S. Waldvogel, "Large, Highly Modular NarrowGap Electrolytic Flow Cell and Application in Dehydrogenative Cross-Coupling of Phenols," *Org. Process Res. Dev.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00451

[522] M. Tissot, J. Jacq and P. Pasau, "Stereospecific Amination of Mesylated Cyclobutanol in Continuous Flow," *Org. Process Res. Dev.,* 2019. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.9b00381

[521] C. Hone, A. Boyd, A. O'Kearney-McMullan, R. Bourne and F. Muller, "Definitive screening designs for multistep kinetic models in flow," *React. Chem. Eng.,* 2019. https://pubs.rsc.org/en/content/articlehtml/2019/re/c9re00180h

[520] B. Cerra, G. Mosca, M. Ricci, A. Schoubben and A. Gioiello, "Flow nanoprecipitation of sizecontrolled d-leucine nanoparticles for spray-drying formulations," *React. Chem. Eng.,* vol. 4, no. 10, pp. 1861-1868, 2019. https://pubs.rsc.org/en/content/articlelanding/2019/re/c9re00242a

[519] M. Chaudhari, N. Mohanta, A. Pandey, M. Vandana, K. Karmodiya and B. Gnanaprakasam, "Peroxidation 2-oxindole and barbituric acid derivatives under batch and continuous flow using an eco-friendly ethyl acetate solvent," *React. Chem. Eng.,* vol. 4, no. 7,pp. 1277-1283, 2019. https://pdfs.semanticscholar.org/d38d/7acbd371294d7bb275a6e300d865a8e42c1d.pdf

[518] N. Weeranoppanant, "Enabling tools for continuous-flow biphasic liquid–liquid reaction," *Reaction Chemistry & Engineering,* 2019. https://pubs.rsc.org/en/content/articlehtml/2019/re/c8re00230d

[517] M. Baumann, "Integrating reactive distillation with continuous flow processing," *Reaction Chemistry & Engineering,* 2019. https://pubs.rsc.org/en/content/articlehtml/2019/re/c8re00217g

[516] M. Pagliaro, "The Role of Single-Atom Catalysis in Potentially Disruptive Technologies," *Single-Atom Catalysis,* pp. 21-46. http://dx.doi.org/10.1016/B978-0-12-819088-3.00002-8

[515] N. Amri, R. Skilton, D. Guthrie and T. Wirth, "Efficient Flow Electrochemical Alkoxylation of Pyrrolidine-1-carbaldehyde," *Synlett,* 2019. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0037-1611774

[514] N. Ahmed and A. Vgenopoulou, "Flow Electrochemical Cyclizations via Amidyl Radicals: Easy Access to Cyclic Ureas," *SynOpen,* vol. 3, no. 1, pp. 46-48, 2019. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0037-1611772

[513] H. Lebel, A. Charette, G. Evano, A. Nitelet and V. Kairouz, "Continuous Flow Chlorination of Alkenyl Iodides Promoted by Copper Tubing," *Synthesis,* vol. 51, no. 1, pp. 251-257, 2019. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0037-1610398

[512] Z. Rao, "The application of 3D-printing in batch and flow chemistry for the synthesis of heterocycles," *Thesis,* 2019. http://discovery.ucl.ac.uk/id/eprint/10071943

[511] A. Bouchard, "Trifluorométhylthiolation par CH activation et synthèse d'amines primaires en chimie en flux continu," *Thesis,* 2019. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/21912

[510] H. Wang, "Cobalt (III)-and Manganese (I)-Catalyzed C– H and C– C *Activations," Thesis,* 2019. https://d-nb.info/1182033644/34

[509] R. Galaverna, "Explorando os benefícios da química em fluxo contínuo na síntese de compostos oriundos de biomassa e na química de cetenos," *Thesis,* 2019. http://repositorio.unicamp.br/handle/REPOSIP/334868

[508] D. Thomas III, "Design and implementation of an automated reconfigurable modular flow chemistry synthesis platform," *Thesis,* 2019. https://dspace.mit.edu/handle/1721.1/121851

[507] P. Flandrin, "Developing metastable switchable materials towards scale-up production in continuous flow environment," *Thesis,* 2019. https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.782217

[506] C. Audubert, "Méthylénation et diazotisation en chimie en flux continu," Thesis, 2019. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/21580

[505] R. Hicklin, A. Strom, E. Styduhar and T. Jamison, "6 Hazardous Reagents in Continuous-Flow Chemistry," *Thesis,* 2019. https://www.thieme-connect.com/products/ejournals/pdf/10.1055/sos-SD-228 00140.pdf

[504] C. Scholtz, "The automated flow synthesis of fluorine containing organic compounds," *Thesis,* 2019. https://repository.up.ac.za/handle/2263/72680

[503] T. Britten, "4-π Photocyclisation: a new route to functionalised four-membered rings," *Thesis,* 2019. https://eprints.lancs.ac.uk/id/eprint/137080/

[502] M. Jo, "N-Heterocyclic Carbene Copper Complexes: Catalysis and Coordination Chemistry," *Thesis,* 2019. https://diginole.lib.fsu.edu/islandora/object/fsu%3A709774

[501] A. ROIBU, "Characterization of Microstructured Reactors for Photochemical Transformations," *Thesis,* 2019. https://lirias.kuleuven.be/retrieve/55634

2018

Year total: 78

[500] A. Benítez-Mateos, M. Contente, S. Velasco-Lozano, F. Paradisi and F. López-Gallego, "Self- Sufficient Flow-Biocatalysis by Coimmobilization of Pyridoxal 5'-Phosphate and ω- Transaminases onto Porous Carriers," *ACS Sustainable Chem. Eng.,* vol. 6, no. 10, pp. 1315113159, 2018. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.8b02672

[499] S. Agalave, M. Chaudhari, G. Bisht and B. Gnanaprakasam, "Additive Free Fe-Catalyzed Conversion of Nitro to Aldehyde under Continuous Flow Module," *ACS Sustainable Chem. Eng.,* vol. 6, no. 10, pp. 12845-12854, 2018. https://pubs.acs.org/doi/abs/10.1021/acssuschemeng.8b02090

[498] E. Campbell, J. Grant, Y. Wang, M. Sandhu, R. Williams, D. Nisbet, A. Perriman, D. Lupton and C. Jackson, "Hydrogel-Immobilized Supercharged Proteins," *Adv. Biosys.,* vol. 2, no. 7, p. 1700240, 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/adbi.201700240

[497] K. Kunihiro, L. Dumais, G. Lafitte, E. Varvier, L. Tomas and C. Harris, "An Efficient Benzoxaborole One-Pot Synthesis by SiliaCat DPP-Pd Heterogeneous Catalysis using Diboronic Acid," *Adv. Synth. Catal.,* vol. 360, no. 14, pp. 2757-2761, 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.201800262

[496] C. Bottecchia, R. Martin, I. Abdiaj, E. Crovini, J. Alcazar, J. Jorduna, M. Blesa, J. Carrillo, P. Prieto and T. Noel, "De novo design of organic photocatalysts: bithiophene derivatives for the visible-light induced C-H functionalization of heteroarenes," *Adv. Synth. Catal.,*2018.

https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.201801571

[495] H. Seo, L. Nguyen and T. Jamison, "Using Carbon Dioxide as a Building Block in Continuous Flow Synthesis," *Adv. Synth. Catal.,* 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.201801228

[494] I. Abdiaj, L. Huck, J. Mateo, A. de la Hoz, M. Gomez, A. Díaz-Ortiz and J. Alcázar, "Photoinduced Palladium-Catalyzed Negishi Cross-Couplings Enabled by the Visible-Light Absorption of Palladium-Zinc Complexes," *Angew. Chem. Int. Ed. Engl.,* vol. 57, no. 40, pp. 13231-13236, 2018. https://ruidera.uclm.es/xmlui/handle/10578/18335

[493] M. Ganiek, M. Ivanova, B. Martin and P. Knochel, "Mild Homologation of Esters through Continuous Flow Chloroacetate Claisen Reactions," *Angew. Chem. Int. Ed. Engl.,* vol. 57, no. 52, pp. 17249-17253, 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201810158

[492] C. Burcham, A. Florence and M. Johnson, "Continuous Manufacturing in Pharmaceutical Process Development and Manufacturing," *Annu Rev Chem Biomol Eng,* vol. 9, pp. 253-281, 2018. https://www.annualreviews.org/doi/abs/10.1146/annurev-chembioeng-060817-084355

[491] S. Mumtaz, M. Robertson and M. Oelgemöller, "Recent Advances in Photodecarboxylations Involving Phthalimides," *Aust. J. Chem.,* vol. 71, no. 9, p. 634, 2018.
http://www.publish.csiro.au/CH/CH18220

[490] E. Yu, H. Mangunuru, N. Telang, C. Kong, J. Verghese, S. Gilliland Iii, S. Ahmad, R. Dominey and B. Gupton, "High-yielding continuous-flow synthesis of antimalarial drug hydroxychloroquine," *Beilstein J Org Chem,* vol. 14, pp. 583-592, 2018.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5852550/

[489] S. De Angelis, C. Carlucci, M. de Candia, G. Rebuzzini, P. Celestini, M. Riscazzi, R. Luisi and L. Degennaro, "Targeting a Mirabegron precursor by BH 3 -mediated continuous flow reduction process," *Catalysis Today,* vol. 308, pp. 81-85, 2018.
https://www.sciencedirect.com/science/article/pii/S0920586117306739

[488] V. Liautard, M. Birepinte, C. Bettoli and M. Pucheault, "Mg-Catalyzed OPPenauer Oxidation—Application to the Flow Synthesis of a Natural Pheromone," *Catalysts,* vol. 8, no. 11, p. 529, 2018.
https://www.mdpi.com/2073-4344/8/11/529

[487] J. Britton, S. Majumdar and G. Weiss, "Continuous flow biocatalysis," Chem Soc rev, vol. 47, no. 15, pp. 5891-5918, 2018.
http://pubs.rsc.org/en/content/articlehtml/2018/cs/c7cs00906b

[486] F. Lima, L. Grunenberg, H. Rahman, R. Labes, J. Sedelmeier and S. Ley, "Organic photocatalysis for the radical couplings of boronic acid derivatives in batch and flow," *Chem. Commun. (Camb.),* vol. 54, no. 44, pp. 5606-5609, 2018.
http://pubs.rsc.org/en/content/articlehtml/2018/cc/c8cc02169d

[485] P. Dingwall, A. Greb, L. Crespin, R. Labes, B. Musio, J. Poh, P. Pasau, D. Blakemore and S. Ley, "C-H functionalisation of aldehydes using light generated, non-stabilised diazo compounds in flow," *Chem. Commun. (Camb.),* 2018.
https://pubs.rsc.org/en/content/articlehtml/2018/cc/c8cc06202a

[484] F. Akwi and P. Watts, "Continuous flow chemistry: where are we now? Recent applications, challenges and limitations," *Chem. Commun. (Camb.),* vol. 54, no. 99, pp. 13894-13928, 2018.
https://pubs.rsc.org/en/content/articlehtml/2018/cc/c8cc07427e

[483] S. Mileghem, W. Borggraeve and I. Baxendale, "A Robust and Scalable Continuous Flow Process for Glycerol Carbonate," *Chem. Eng. Technol.,* 2018.
https://onlinelibrary.wiley.com/doi/abs/10.1002/ceat.201800012

[482] R. Radjagobalou, J. Blanco, O. Dechy-Cabaret, M. Oelgemöller and K. Loubière, "Photooxygenation in an advanced led-driven flow reactor module: Experimental investigations and modelling," *Chemical Engineering and Processing - Process Intensification,* vol. 130, pp. 214-228, 2018. https://www.sciencedirect.com/science/article/pii/S0255270118304355

[481] W. He, Z. Fang, K. Zhang, T. Tu, N. Lv and C. Qiu, "A novel micro-flow system under microwave irradiation for continuous synthesis of 1, 4-dihydropyridines in the absence of solvents via Hantzsch reaction," *Chemical Engineering Journal,* vol. 331, p. 161, 2018. https://www.sciencedirect.com/science/article/pii/S1385894717314444

[480] Z. Fang, W. He, T. Tu, N. Lv, C. Qiu, X. Li, N. Zhu, L. Wan and K. Guo, "An efficient and green pathway for continuous Friedel-Crafts acylation over α-Fe 2 O 3 and CaCO 3 nanoparticles prepared in the microreactors," *Chemical Engineering Journal,* vol. 331, pp. 443-449, 2018. https://www.sciencedirect.com/science/article/pii/S1385894717314845

[479] K. Hock and R. Koenigs, "The Generation of Diazo Compounds in Continuous-Flow," *Chemistry, 2018* https://onlinelibrary.wiley.com/doi/abs/10.1002/chem.201800136

[478] H. Qi, X. Li, Z. Liu, S. Miao, Z. Fang, L. Chen, Z. Fang and K. Guo, "Regioselective Chlorination of Quinoline Derivatives via Fluorine Mediation in a Microfluidic Reactor," *ChemistrySelect,* vol. 3, no. 38, pp. 1068910693, 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/slct.201802925

[477] J. Baker, J. Gilbert, S. Paula, X. Zhu, J. Sakoff and A. McCluskey, "Dichlorophenylacrylonitriles as AhR Ligands That Display Selective Breast Cancer Cytotoxicity in vitro," *ChemMedChem,* 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/cmdc.201800256

[476] Y. Chen, O. de Frutos, C. Mateos, J. Rincon, D. Cantillo and C. Kappe, "Continuous Flow Photochemical Benzylic Bromination of a Key Intermediate in the Synthesis of a 2Oxazolidinone," *ChemPhotoChem,* 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/cptc.201800114

[475] E. Corcoran, F. Lévesque, J. McMullen and J. Naber, "Studies Toward the Scaling of GasLiquid Photocycloadditions," *ChemPhotoChem,* 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/cptc.201800098

[474] S. Mostarda, D. Passeri, A. Carotti, B. Cerra, C. Colliva, T. Benicchi, A. Macchiarulo, R. Pellicciari and A. Gioiello, "Synthesis, physicochemical properties, and biological activity of bile acids 3-glucuronides: Novel insights into bile acid signalling and detoxification," *Eur J Med Chem,* vol. 144, pp. 349-358, 2018. https://www.sciencedirect.com/science/article/pii/S0223523417310401

[473] F. Silva, A. Baker, J. Stansall, W. Michalska, M. Yusubov, M. Graz, R. Saunders, G. Evans and T. Wirth, "Selective Oxidation of Sulfides in Flow Chemistry," *Eur. J. Org. Chem.,* pp. 21342137, 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201800339

[472] N. Luise, E. Wyatt, G. Tarver and P. Wyatt, "A Continuous Flow Strategy for the Facile Synthesis and Elaboration of Semi-Saturated Heterobicyclic Fragments," *Eur. J. Org. Chem.,* 2018. https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201801684

[471] M. Giroud, B. Kuhn, S. Saint-Auret, C. Kuratli, R. Martin, F. Schuler, F. Diederich, M. Kaiser, R. Brun, T. Schirmeister and W. Haap, "2 H-1,2,3-Triazole-Based Dipeptidyl Nitriles: Potent, Selective, and Trypanocidal Rhodesain Inhibitors by Structure-Based Design," *J. Med. Chem.,* vol. 61, no. 8, pp. 3370-3388, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.7b01870

[470] D. Crowley, D. Lynch and A. Maguire, "Copper-Mediated, Heterogeneous, Enantioselective Intramolecular Buchner Reactions of α-Diazoketones Using Continuous Flow Processing," *J. Org. Chem.,* vol. 83, no. 7, pp. 3794-3805, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b00147

[469] K. Raynor, G. May, U. Bandarage and M. Boyd, "Generation of Diversity Sets with High sp3 Fraction Using the Photoredox Coupling of Organotrifluoroborates and Organosilicates with Heteroaryl/Aryl Bromides in Continuous Flow," *J. Org. Chem.,* vol. 83, no. 3, pp. 1551-1557, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.joc.7b02680

[468] M. Chaudhari, S. Moorthy, S. Patil, G. Bisht, H. Mohamed, S. Basu and B. Gnanaprakasam, "Iron-Catalyzed Batch/Continuous Flow C-H Functionalization Module for the Synthesis of Anticancer Peroxides," *J. Org. Chem.,* vol. 83, no. 3, pp. 1358-1368, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.joc.7b02854

[467] Y. Chen, M. Leonardi, P. Dingwall, R. Labes, P. Pasau, D. Blakemore and S. Ley, "Photochemical Homologation for the Preparation of Aliphatic Aldehydes in Flow," *J. Org.Chem.,* 2018. https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b02721

[466] C. Audubert, A. Bouchard, G. Mathieu and H. Lebel, "Chemoselective Synthesis of Amines from Ammonium Hydroxide and Hydroxylamine in Continuous Flow," *J. Org. Chem.,* vol. 83, no. 22, pp. 14203-14209, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b02387

[465] I. Abdiaj, C. Horn and J. Alcazar, "Scalability of Visible-Light-Induced Nickel Negishi Reactions: A Combination of Flow Photochemistry, Use of Solid Reagents, and In-Line NMR Monitoring," *J. Org. Chem.,* 2018. https://pubs.acs.org/doi/abs/10.1021/acs.joc.8b02358

[464] C. Genet, X. Nguyen, B. Bayatsarmadi and M. Horne, "Reductive aminations using a 3D printed supported metal (0) catalyst system," *Journal of Flow Chemistry,* 2018. https://link.springer.com/article/10.1007/s41981-018-0013-6

[463] A. Bouchard, V. Kairouz, M. Manneveau and H. Xiong, "Continuous flow palladium-catalyzed trifluoromethylthiolation of CH bonds," *Journal of Flow Chemistry,* 2018. https://link.springer.com/article/10.1007/s41981-018-0023-4

[462] G. Vile, G. Schmidt and S. Richard-Bildstein, "Enantiospecific cyclization of methyl N-(tertbutoxycarbonyl)-N-(3-chloropropyl)-D-alaninate to 2-methylproline derivative via 'memory of chirality' in flow," *Journal of Flow Chemistry,* 2018. https://link.springer.com/article/10.1007/s41981-018-0022-5

[461] X. Li, Z. Liu, H. Qi, Z. Fang, S. Huang and S. Miao, "Continuous preparation for rifampicin," *Journal of Flow Chemistry,* 2018. https://link.springer.com/article/10.1007/s41981-018-0017-2

[460] M. Contente and F. Paradisi, "Self-sustaining closed-loop multienzyme-mediated conversion of amines into alcohols in continuous reactions," *Nat Catal,* vol. 1, no. 6, pp. 452-459, 2018. https://www.nature.com/articles/s41929-018-0082-9

[459] M. Hatit, L. Reichenbach, J. Tobin, F. Vilela, G. Burley and A. Watson, "A flow platform for degradation-free CuAAC bioconjugation," *Nat Commun,* vol. 9, no. 1, p. 4021, 2018. https://www.nature.com/articles/s41467-018-06551-0

[458] M. Berton, L. Huck and J. Alcázar, "On-demand synthesis of organozinc halides under continuous flow conditions," *Nat Protoc,* vol. 13, no. 1, pp. 324-334, 2018. https://www.nature.com/nprot/journal/v13/n2/abs/nprot.2017.141.html

[457] P. McCaw, U. Khandavilli, S. Lawrence, A. Maguire and S. Collins, "Synthesis of 1,2,5oxathiazole-S-oxides by 1,3-dipolar cycloadditions of nitrile oxides to α-oxo sulfines," *Org. Biomol. Chem.,* 2018. https://pubs.rsc.org/en/content/articlehtml/2018/ob/c8ob02691b

[456] Y. Chen, D. Blakemore, P. Pasau and S. Ley, "Three-Component Assembly of Multiply Substituted Homoallylic Alcohols and Amines Using a Flow Chemistry Photoreactor," *Org. Lett.,* vol. 20, no. 20, pp. 6569-6572, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.orglett.8b02907

[455] F. Politano and G. Oksdath-Mansilla, "Light on the horizon: Current research and future perspectives in flow photochemistry," *Org. Process Res. Dev.,* 2018. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00213

[454] H. Hsieh, C. Coley, L. Baumgartner, K. Jensen and R. Robinson, "Photoredox Iridium–Nickel Dual-Catalyzed Decarboxylative Arylation Cross-Coupling: From Batch to Continuous Flow via Self-Optimizing Segmented Flow Reactor," *Org. Process Res. Dev.,* vol. 22, no. 4, pp. 542550, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00018

[453] J. Gardiner, X. Nguyen, C. Genet, M. Horne, C. Hornung and J. Tsanaktsidis, "Catalytic Static Mixers for the Continuous Flow Hydrogenation of a Key Intermediate of Linezolid (Zyvox)," *Org. Process Res. Dev.,* 2018. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00153

[452] E. Godineau, C. Battilocchio, M. Lehmann, S. Ley, R. Labes, L. Birnoschi, S. Subramanian, C. Prasanna, A. Gorde, M. Kalbagh, V. Khade, A. Scherrer and A. O'Sullivan, "A Convergent Continuous Multistep Process for the Preparation of C4-Oxime-Substituted Thiazoles," *Org. Process Res. Dev.,* vol. 22, no. 8, pp. 955-962, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.8b00095

[451] A. O'Brien, E. Ricci and M. Journet, "Dehydration of an Insoluble Urea Byproduct Enables the Condensation of DCC and Malonic Acid in Flow," *Org. Process Res. Dev.,* vol. 22, no. 3, pp. 399-402, 2018. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00375

[450] K. Harper, E. Moschetta, S. Bordawekar and S. Wittenberger, "A Laser Driven Flow Chemistry Platform for Scaling Photochemical Reactions with Visible Light," *ACS Central Science,* pp. 109-115, 2018.
https://chemrxiv.org/ndownloader/files/12964958

[449] T. Bavaro, A. Pinto, F. Dall'Oglio, M. Hernáiz, C. Morelli, P. Zambelli, C. De Micheli, P. Conti, L. Tamborini and M. Terreni, "Flow-based biocatalysis: Application to peracetylated arabinofuranosyl-1,5-arabinofuranose synthesis," *Process Biochemistry,* vol. 72, pp. 112-118, 2018.
https://www.sciencedirect.com/science/article/pii/S1359511318302484

[448] P. Cossar, J. Baker, N. Cain and A. McCluskey, "In situ epoxide generation by dimethyldioxirane oxidation and the use of epichlorohydrin in the flow synthesis of a library of β-amino alcohols," *R Soc Open Sci,* 2018.
http://rsos.royalsocietypublishing.org/content/5/4/171190.abstract

[447] L. Smith and I. Baxendale, "Flow synthesis of coumalic acid and its derivatization," *React. Chem. Eng.,* 2018.
https://pubs.rsc.org/en/content/articlehtml/2018/re/c8re00116b

[446] D. Perera, J. Tucker, S. Brahmbhatt, C. Helal, A. Chong, W. Farrell, P. Richardson and N. Sach, "A platform for automated nanomole-scale reaction screening and micromole- scale synthesis in flow," *Science,* pp. 429-434, 2018
http://science.sciencemag.org/content/359/6374/429.abstract

[445] H. Wang, Z. Bao and R. Liu, "P-121: Successive and Scalable Synthesis of Highly Stable Cs4PbBr6 Perovskite Microcrystal by Microfluidic System and Their Application in Backlight Display," *SID Symposium Digest of Technical Papers,* vol. 49, no. 1, pp. 1664- 1666, 2018.
https://onlinelibrary.wiley.com/doi/abs/10.1002/sdtp.12305

[444] A. Kumar and S. Gopinathan, "Conjugated Polymers: New Insights via Continuous Flow Syntheses," *SMC Bulletin,* pp. 28-36, 2018.
http://www.smcindia.org/pdf/SMC%20Bulletin%20Aug-2017.pdf#page=38

[443] J. Babra, A. Russell, C. Smith and Y. Zhang, "Combining C-H functionalisation and flow photochemical heterocyclic metamorphosis (FP-HM) for the synthesis of benzo[1,3]oxazepines," *Tetrahedron,* 2018.
https://www.sciencedirect.com/science/article/pii/S0040402018306148

[442] R. Dhanya, A. Herath, D. Sheffler and N. Cosford, "A combination of flow and batch mode processes for the efficient preparation of mGlu 2/3 receptor negative allosteric modulators (NAMs)," *Tetrahedron,* vol. 74, no. 25, pp. 3165-3170, 2018. https://www.sciencedirect.com/science/article/pii/S004040201830351X

[441] H. Seo, A. Bédard, W. Chen, R. Hicklin, A. Alabugin and T. Jamison, "Selective N monomethylation of primary anilines with dimethyl carbonate in continuous flow," *Tetrahedron,* vol. 74, no. 25, pp. 3124-3128, 2018. https://www.sciencedirect.com/science/article/pii/S0040402017312346

[440] T. von Keutz, F. Strauss, D. Cantillo and C. Kappe, "Continuous flow multistep synthesis of αfunctionalized esters via lithium enolate intermediates," *Tetrahedron,* vol. 74, no. 25, pp. 3113-3117, 2018. https://www.sciencedirect.com/science/article/pii/S004040201731222X

[439] G. Benoit, "Synthèse et fonctionnalisation de borocyclopropanes et développement d'un procédé de synthèse de diazoalcanes non-stabilisés en utilisant la technologie en débit continu," *Thesis,* 2018. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/20438

[438] F. Lima, "Photoredox C–C Cross-Coupling Reactions using Boronic Acid Derivatives,"*Thesis,* 2018. https://www.repository.cam.ac.uk/handle/1810/274928

[437] L. SMITH, "Synthesis of Value-Added Intermediates by Continuous Flow Technology," *Thesis,* 2018. http://etheses.dur.ac.uk/12526/1/thesis.pdf

[436] S. Lau, "Organic Synthesis: Taming Chemistry using Enabling *Technologies," Thesis,*2018. https://www.repository.cam.ac.uk/handle/1810/273347

[435] H. Gemoets, "Enabling and accelerating CH functionalization through continuous-flow chemistry," *Thesis,* 2018. https://research.tue.nl/files/88294061/20180110_Gemoets.pdf

[434] I. Abdiaj, "Application of photocatalysis in flow as a new tool for *drug-discovery," Thesis,* 2018. https://helvia.uco.es/handle/10396/17178

[433] D. Senf, "Synthesis of Arabinoxylan Oligo-and Polysaccharides from the Plant Cell Wall," *Thesis,* 2018.
https://refubium.fu-berlin.de/handle/fub188/22770

[432] C. Minozzi, "Synthèse, caractérisation et application de photocatalyseurs à base de cuivre," *Thesis,* 2018.
https://papyrus.bib.umontreal.ca/xmlui/handle/1866/20665

[431] A. Bechtoldt, "Aerobic Ruthenium-Catalyzed C–H Activations," *Thesis, 2018.*
https://d-nb.info/1166399796/34

[430] M. Bartetzko, "Development of Synthetic Glycan Tools for Investigating Plant Cell Wall Pectins," *Thesis,* 2018.
https://refubium.fu-berlin.de/handle/fub188/23208

[429] A. Kononov, "Oligosaccharides Prepared by Automated Glycan Assembly as Basis for Structural Investigations of Carbohydrates," *Thesis,* 2018.
https://refubium.fu-berlin.de/handle/fub188/23228

[428] A. Bogdan and M. Organ, "Flow Chemistry as a Drug Discovery Tool: A Medicinal Chemistry Perspective," *Topics in Heterocyclic Chemistry,* pp. 319-341, 2018.
https://link.springer.com/chapter/10.1007/7081_2018_24

[427] J. Demaerel, V. Bieliūnas and W. De Borggraeve, "Functionalization of Heteroarenes Under Continuous Flow," *Topics in Heterocyclic Chemistry,* pp. 237-317, 2018.
https://link.springer.com/chapter/10.1007/7081_2018_22

[426] R. Gérardy and J. Monbaliu, "Multistep Continuous-Flow Processes for the Preparation of Heterocyclic Active Pharmaceutical Ingredients," *Topics in Heterocyclic Chemistry,* 2018.
https://link.springer.com/chapter/10.1007/7081_2018_21

[425] T. Glasnov, "Photochemical Synthesis of Heterocycles: Merging Flow Processing and MetalCatalyzed Visible Light Photoredox Transformations," *Topics in Heterocyclic Chemistry,* pp. 103-132, 2018.
https://link.springer.com/chapter/10.1007/7081_2018_20

[424] M. Rahman and T. Wirth, "Safe Use of Hazardous Chemicals in Flow," *Topics in Heterocyclic Chemistry,* pp. 343-373, 2018.
https://link.springer.com/chapter/10.1007/7081_2018_17

[423] M. Baumann and I. Baxendale, "Flow Chemistry Approaches Applied to the Synthesis of Saturated Heterocycles," *Topics in Heterocyclic Chemistry,* pp. 187-236, 2018. https://link.springer.com/chapter/10.1007/7081_2018_16

2017

Year total: 74

[422] J. Tobin, T. McCabe, A. Prentice, A. Prentice, G. Lloyd, M. Paterson, V. Arrighi, P. Cormack and F. Vilela, "Polymer-supported photosensitizers for oxidative organic transformations in flow and under visible light irradiation," *ACS Catal.,* no. 7, p. 4602, 2017. http://pubs.acs.org/doi/abs/10.1021/acscatal.7b00888

[421] K. Jensen, "Flow chemistry—Microreaction technology comes of age," *AIChE Journal,* no. 63, p. 585, 2017. http://onlinelibrary.wiley.com/doi/10.1002/aic.15642/full

[420] A. Greb, J. Poh, S. Greed, C. Battilocchio, P. Pasau, D. Blakemore and S. Ley, "A New Versatile Route to Unstable Diazo Compounds via Oxadiazolines and Use In Aryl-Alkyl Cross-Coupling Reactions," *Angew. Chem. Int. Ed. Engl.,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/ange.201710445/full

[419] M. Ketels, M. Ganiek, N. Weidmann and P. Knochel, "Synthese von Diorganomagnesium- und Diorganozinkverbindungen durch In-Situ-Abfang-Halogen-Lithium-Austausch an hochfunktionalisierten (Hetero)Arylhalogeniden im kontinuierlichen Durchfluss," *Angewandte Chemie,* p. 12944, 2017. http://onlinelibrary.wiley.com/doi/10.1002/anie.201706609/full

[418] L. Urge, J. Alcazar, L. Huck and G. Dorman, "Recent Advances of Microfluidics Technologies in the Field of Medicinal Chemistry," *Annual Reports in Medicinal Chemistry,* 2017. http://www.sciencedirect.com/science/article/pii/S0065774317300192

[417] B. Bizet, C. Hornung, T. Kohl and J. Tsanaktsidis, "Synthesis of Imines and Amines from Furfurals Using Continuous Flow Processing," *Australian Journal of Chemistry,* no. 10, p. 1069, 2017. http://www.publish.csiro.au/ch/CH17036

[416] C. Shukla and A. Kulkarni, "Automating multistep flow synthesis: approach and challenges in integrating chemistry, machines and logic," *Beilstein J Org Chem,* no. 13, pp. 960-987, 2017.
http://www.beilstein-journals.org/bjoc/articles/13/97

[415] A. Herath and N. Cosford, "Continuous-flow synthesis of highly functionalized imidazooxadiazoles facilitated by microfluidic extraction," *Beilstein J Org Chem,* no. 13, pp. 239-246, 2017.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5331298/

[414] C. Hornung, M. Álvarez-Diéguez, T. Kohl and J. Tsanaktsidis, "Diels-Alder reactions of myrcene using intensified continuous-flow reactors," *Beilstein J Org Chem,* no. 13, pp. 120126, 2017.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5301964/

[413] A. Echtermeyer, Y. Amar, J. Zakrzewski and A. Lapkin, "Self-optimisation and model-based design of experiments for developing a C-H activation flow process," *Beilstein J Org Chem,* no. 13, pp. 150-163, 2017.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5301945/

[412] M. Ketels, M. Ganiek, N. Weidmann and P. Knochel, "Synthesis of Polyfunctional Diorganomagnesium and Diorganozinc Reagents through In Situ Trapping Halogen-Lithium Exchange of Highly Functionalized (Hetero)aryl Halides in Continuous Flow," *Angew. Chem. Int. Ed. Engl.,* vol. 56, no. 41, pp. 12770-12773, 2017.
https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201706609

[411] J. Poh, S. Makai, T. von Keutz, D. Tran, C. Battilocchio, P. Basau and S. Ley, "Rapid asymmetric disubstituted allene synthesis via coupling of flow-generated diazo compounds and propargylated amines," *Angew. Chem. Int. Ed. Engl.,* vol. 56, no. 7, p. 1864–1868, 2017.
https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201611067

[410] M. Baumann and I. Baxendale, "A continuous flow synthesis and derivatization of 1,2,4thiadiazoles," *Bioorg. Med. Chem.,* 2017.
http://www.sciencedirect.com/science/article/pii/S0968089617300901

[409] C. Kong, D. Fisher, B. Desai, Y. Yang, S. Ahmad, K. Belecki and B. Gupton, "High throughput photo-oxidations in a packed bed reactor system," *Bioorg. Med. Chem.,* 2017.
http://www.sciencedirect.com/science/article/pii/S0968089617313627

[408] S. De Angelis, C. Carlucci, M. Candia, G. Rebuzzini, P. Celestini, M. Luisi and L. Degennaro, "Targeting a Mirabegron precursor by BH3-mediated continuous flow reduction process," *Catalysis Today,* 2017. http://www.sciencedirect.com/science/article/pii/S0920586117306739

[407] J. Forni, L. Novaes, R. Galaverna and J. Pastre, "Novel polystyrene-immobilized chiral amino alcohols as heterogeneous ligands for the enantioselective arylation of aldehydes in batch and continuous flow regime," *Catalysis Today,* 2017. http://www.sciencedirect.com/science/article/pii/S0920586117305771

[406] M. Briggs and A. Cooper, "A Perspective on the Synthesis, Purification, and Characterization of Porous Organic Cages," *Chem Mater,* vol. 29, no. 1, pp. 149-157, 2017. http://pubs.acs.org/doi/abs/10.1021/acs.chemmater.6b02903

[405] J. Lummiss, P. Morse, R. Beingessner and T. Jamison, "Towards More Efficient, Greener Syntheses through Flow Chemistry," *Chem Rec,* vol. 17, no. 7, pp. 667-680, 2017. https://scripts.iucr.org/cgi-bin/paper?lq5047

[404] C. Hone, A. -McMullan, R. Munday and C. Kappe, "Development of a Continuous-Flow Process for a Pd-Catalyzed Olefin Cleavage using Oxygen within the Explosive Regime," *ChemCatChem,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/cctc.201700671/full

[403] M. Contente, F. Dall'Oglio, L. Tamborini, F. Molinari and F. Paradisi, "Highly Efficient Oxidation of Amines to Aldehydes with Flow-based Biocatalysis," *ChemCatChem,* vol. 9, no. 20, pp. 3843-3848, 2017. https://onlinelibrary.wiley.com/doi/abs/10.1002/cctc.201701147

[402] A. Tanimu, S. Jaenicke and K. Alhooshani, "Heterogeneous catalysis in continuous flow microreactors: A review of methods and applications," *Chemical Engineering Journal,* vol. 327, no. 1, p. 792, 2017. http://www.sciencedirect.com/science/article/pii/S1385894717311130

[401] H. Wu, T. Huang, F. Cao, Q. Zou, Q. Zou and P. Ouyang, "Co-production of HMF and gluconic acid from sucrose by chemo-enzymatic method," *Chemical Engineering Journal,* vol. 327, no. 1, p. 228, 2017. http://www.sciencedirect.com/science/article/pii/S1385894717310586

[400] J. Britton and C. Raston, "Multi-step continuous-flow synthesis," *Chemical Society Reviews,* vol. 46, p. 1250, 2017. http://pubs.rsc.org/-/content/articlehtml/2017/cs/c6cs00830e

[399] P. Dallabernardina, F. Schuhmacher, P. Seeberger and F. Pfrengle, "Mixed-Linkage Glucan Oligosaccharides Produced by Automated Glycan Assembly Serve as Tools To Determine the Substrate Specificity of Lichenase," *Chemistry,* vol. 23, no. 13, pp. 3191-3196, 2017.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201605479/full

[398] M. Ganiek, M. Becker, G. Berionni, H. Zipse and P. Knochel, "Barbier Continuous Flow Preparation and Reactions of Carbamoyllithiums for Nucleophilic Amidation," *Chemistry,* vol. 23, no. 43, pp. 10280-10284, 2017.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201702593/full

[397] D. Senf, C. Ruprecht, G. de Kruijff, S. Simonetti, F. Schuhmacher, P. Seeberger and F. Pfrengle, "Active Site Mapping of Xylan- Deconstructing Enzymes with Arabinoxylan Oligosaccharides Produced by Automated Glycan Assembly," *Chemistry,* vol. 23, no. 13, pp. 3197-3205, 2017.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201605902/full

[396] C. Lamb, B. Nderitu, G. McMurdo, J. Tobin, F. Vilela and A. Lee, "Auto-Tandem Catalysis: Pd(II)-Catalysed Dehydrogenation/Oxidative Heck of Cyclopentane-1,3-diones," *Chemistry,* 2017.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201704442/full

[395] V. De Vitis, F. Dall'Oglio, A. Pinto, C. De Micheli, F. Molinari, P. Conti, D. Romano L. Tamborini, "Chemoenzymatic Synthesis in Flow Reactors: A Rapid and Convenient Preparation of Captopril," *ChemistryOpen,* vol. 6, no. 5, pp. 668-673, 2017.
http://onlinelibrary.wiley.com/doi/10.1002/open.201700082/ful

[394] Y. Auberson, C. Brocklehurst, M. Furegati, T. Fessard, G. Koch, A. Decker, L. La Vecchia and E. Briard, "Improving Nonspecific Binding and Solubility: Bicycloalkyl Groups and Cubanes as para-Phenyl Bioisosteres," *ChemMedChem,* vol. 12, no. 8, pp. 590-598, 2017.
http://onlinelibrary.wiley.com/doi/10.1002/cmdc.201700082/full

[393] J. Ren, X. Dyosiba, N. Musyoka, N. Musyoka, M. Mathea and S. Liaoc, "Review on the current practices and efforts towards pilot-scale production of metal-organic frameworks (MOFs)," *Coordination Chemistry Reviews,* vol. 352, p. 187, 2017.
http://www.sciencedirect.com/science/article/pii/S0010854517301947

[392] M. Baumann and I. Baxendale, "A Continuous Flow Method for the Desulfurization of Substituted Thioimidazoles Applied to the Synthesis of New Etomidate Derivatives," *European Journal of Organic Chemistry,* 2017.
http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700833/full

[391] L. Degennaro, [. Tota, [. De Angelis, [. Andresini, [. Cardellicchio, [. Capozzi, [. Romanazzi and [. Luisi, "A convenient, mild and green synthesis of NH-sulfoximines in flow reactors," *European Journal of Organic Chemistry,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700850/full

[390] B. Gutmann, D. Cantillo and U. Weigl, "Design and Development of Pd-Catalyzed Aerobic NDemethylation Strategies for the Synthesis of Noroxymorphone in Continuous Flow Mode," *European Journal of Organic Chemistry,* p. 914, 2017. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201601453/full

[389] J. Liu, J. Xu, Z. Li, Y. Huang, H. Wang, Y. Gao, P. Ouyang and K. Guo, "Carbocation organocatalysis in interrupted Povarov reactions to cis-fused pyrano-and furanobenzodihydropyrans," *European Journal of Organic Chemistry,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700634/full

[388] M. Kitching, O. Dixon, M. Baumann and I. Baxendale, "Flow Assisted Synthesis: A key Fragment of SR 142948A," *European Journal of Organic Chemistry,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700904/full

[387] V. Pantone, A. Laurenza, C. Annese, C. Annese, C. Fusco, A. Nacci, A. Russo and L. Accolti, "Methanolysis of epoxidized soybean oil in continuous flow conditions," *Industrial Crops and Products,* 2017. http://www.sciencedirect.com/science/article/pii/S0926669017305125

[386] Y. Qin, L. Chen, W. He, M. Su, Q. Jin, Z. Fang, P. Ouyang and K. Guo, "Continuous synthesis and anti-myocardial injury of tanshinone IIA derivatives," *J Asian Nat Prod Res,* pp. 1-9, 2017. http://www.tandfonline.com/doi/abs/10.1080/10286020.2017.1337751

[385] D. Plaza, V. Strobel, P. Heer, A. Sellars, S. Hoong, A. Clark and A. Lapkin, "Direct valorisation of waste cocoa butter triglycerides via catalytic epoxidation, ring-opening and polymerisation," *J Chem Technol Biotechnol,* vol. 92, no. 9, pp. 2254-2266, 2017. http://onlinelibrary.wiley.com/doi/10.1002/jctb.5292/full

[384] L. Büter, L. Frensemeier, M. Vogel and U. Karst, "Dual reductive/oxidative electrochemistry/liquid chromatography/mass spectrometry: Towards peptide and protein modification, separation and identification," *J Chromatogr A,* pp. 153-160, 2017. http://akademiai.com/doi/abs/10.1556/1846.2017.00006

[383] É. Godin, A. Bédard, M. Raymond and S. Collins, "Phase Separation Macrocyclization in a Complex Pharmaceutical Setting: Application toward the Synthesis of Vaniprevir," *J. Org. Chem.,* vol. 82, no. 14, pp. 7576-7582, 2017. http://pubs.acs.org/doi/abs/10.1021/acs.joc.7b01308

[382] T. Noel, "A personal perspective on the future of flow photochemistry," *Journal of Flow Chemistry,* 2017. http://akademiai.com/doi/abs/10.1556/1846.2017.00022

[381] R. Xiao, J. Tobin, M. Zha, Y. Hou, Y. Hou, F. Vilela and Z. Xu, "A nanoporous graphene analog for superfast heavy metal removal and continuous-flow visible-light photoredox catalysis," *Journal of Materials Chemistry A,* vol. 38, 2017. http://pubs.rsc.org/en/content/articlehtml/2017/ta/c7ta05534j

[380] N. Gobalasingham, J. Carlé, F. Krebs, B. Thompson, E. Bundgaard and M. Helgesen, "Conjugated Polymers Via Direct Arylation Polymerization in Continuous Flow: Minimizing the Cost and Batch-to-Batch Variations for High-Throughput Energy Conversion," *Macromol Rapid Commun,* 2017. http://onlinelibrary.wiley.com/doi/10.1002/marc.201700526/full

[379] S. Saubern, X. Nguyen, Van Nguyen, J. Gardiner, J. Tsanaktsidis and J. Chiefari, "Preparation of Forced Gradient Copolymers Using Tube-in-Tube Continuous Flow Reactors," *Macromolecular Reaction Engineering,* vol. 11, no. 5, 2017. http://onlinelibrary.wiley.com/doi/10.1002/mren.201600065/full

[378] K. Farley, U. Reilly, D. Anderson, B. Boscoe, M. Bundesmann, D. Foley, M. Lall, C. L M. Reese and J. Yan, "Utilizing on- and off-line monitoring tools to follow a kinetic resolution step during flow synthesis," *Magn Reson Chem,* vol. 55, no. 4, pp. 348-354, 2017. http://onlinelibrary.wiley.com/doi/10.1002/mrc.4494/full

[377] W. Zhang and J. Ready, "Total synthesis of the dictyodendrins as an arena to highlight emerging synthetic technologies," *Nat Prod Rep,* vol. 34, no. 8, pp. 1010-1034, 2017. http://pubs.rsc.org/-/content/articlehtml/2017/np/c7np00018a

[376] C. Russell, J. Baker, P. Cossar and A. McCluskey, "Recent Developments in the Use of Flow Hydrogenation in the Field of Medicinal Chemistry," *New Advances in Hydrogenation Processes - Fundamentals and Applications,* 2017 https://www.intechopen.com/books/new-advances-in-hydrogenation-processes-fundamentals-and-applications/recent-developments-in-the-use-of-flow-hydrogenation-in-the-field-of- medicinal-chemistry

[375] M. Baumann, I. Baxendale, P. Filipponi and T. Hu, "Sustainable Flow Synthesis of a Versatile Cyclopentenone Building Block," *Org. Process Res. Dev.,* vol. 21, no. 12, pp.2052-2059, 2017.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00328

[374] P. Amal Joseph and S. Priyadarshini, "Copper-Mediated C–X Functionalization of Aryl Halides," *Org. Process Res. Dev.,* vol. 21, no. 12, pp. 1889-1924, 2017.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00285

[373] S. Karlsson, C. Cook, H. Emtenäs, K. Fan, P. Gillespie and M. Mohamed, "Development of a Safe Continuous Manufacturing Route to 2-(4-Isopropyl-1H-1,2,3-triazol-1-yl)acetic Acid," *Org. Process Res. Dev.,* vol. 21, no. 10, pp. 1668-1674, 2017.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00259

[372] A. Adeyemi, J. Bergman, J. Brånalt, J. Sävmarker and M. Larhed, "Continuous Flow Synthesis under High Temperature/High Pressure Conditions using a Resistively Heated Flow Reactor," *Organic Process Research & Development,* vol. 21, no. 7, pp. 947-955, 2017.
http://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00063

[371] C. Battilocchio, S. Lau, J. Hawkins and S. Ley, "Continuous flow hydration of pyrazine-2carbonitrile in a manganese dioxide column reactor," *Organic Syntheses,* vol. 94, pp. 34-45, 2017.
https://www.repository.cam.ac.uk/bitstream/handle/1810/262538/OrgSyn_data.docx?sequence=1

[370] C. Battilocchio, F. Bosica, S. Rowe, B. Abreu, E. Godineau, M. Lehmann and S. Ley, "Continuous preparation and use of dibromoformaldoxime as a reactive intermediate for the synthesis of 3-bromoisoxazolines," *Original Process Research & Development,* vol. 21, no. 10, p. 1588, 2017.
http://pubs.acs.org/doi/abs/10.1021/acs.oprd.7b00229

[369] T. logo, B. Bizet, P. Kevan, C. Sellwood, J. Tsanaktsidis and C. Hornung, "Efficient synthesis of 5-(chloromethyl) furfural (CMF) from high fructose corn syrup (HFCS) using continuous flow processing," *React. Chem. Eng.,* vol. 2, p. 541, 2017.
http://pubs.rsc.org/en/content/articlehtml/2017/re/c7re00039a

[368] M. Damião, R. Galaverna, A. Kozikowski, J. Eubanks and J. Pastre, "Telescoped continuous flow generation of a library of highly substituted 3-thio-1,2,4-triazoles," *React. Chem. Eng.,* vol. 2, no. 6, pp. 896-907, 2017.
http://pubs.rsc.org/en/content/articlehtml/2017/re/c7re00125h

[367] A. Kouridaki and K. Huvaere, "Singlet oxygen oxidations in homogeneous continuous flow using a gas–liquid membrane reactor," *Reaction Chemistry & Engineering,* vol. 2, p. 590, 2017.
http://pubs.rsc.org/-/content/articlehtml/2017/re/c7re00053g

[366] D. Cantillo and C. Kappe, "Halogenation of organic compounds using continuous flow and microreactor technology," *Reaction Chemistry & Engineering,* 2017.
http://pubs.rsc.org/is/content/articlehtml/2017/re/c6re00186f

[365] E. Mielke, P. Plouffe, N. Koushik, N. Koushik, M. Gottsponer, N. logo, A. logo and D. Roberge, "Local and overall heat transfer of exothermic reactions in microreactor systems," *Reaction Chemistry & Engineering,* vol. 2, p. 763, 2017.
http://pubs.rsc.org/-/content/articlehtml/2017/re/c7re00085e

[364] D. Walsh, P. Patureau, P. Patureau, S. Reekstingb, A. Lubbenb, S. logo and M. Weller, "Exploring effects of intermittent light upon visible light promoted water oxidations," *Sustainable Energy Fuels,* 2017.
http://pubs.rsc.org/-/content/articlehtml/2017/se/c7se00304h

[363] C. Brocklehurst, G. Koch, G. Koch and L. Vecchia, "In Situ Preparation and Consumption of OMesitylsulfonylhydroxylamine (MSH) in Continuous Flow for the Amination of Pyridines," *Synlett,* vol. 28, no. 13, pp. 1636-1640, 2017.
https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0036-1588799

[362] I. Abdiaj, C. Bottecchia, J. Alcazar and T. Noë, "Visible-Light-Induced Trifluoromethylation of Highly Functionalized Arenes and Heteroarenes in Continuous Flow," *Synthesis,* vol. 49, no. 22, p. 4978, 2017.
https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0036-1588527

[361] W. Sun, D. Wilson and D. Harrowven, "Steric Buttressing Changes Torquospecificity in Thermal Cyclobutenone Rearrangements, Providing New Opportunities for 5H-Furanone Synthesis," *Synthesis,* vol. 39, no. 14, pp. 3091-3106, 2017.
https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0036-1588850

[360] S. Mohapatra, Z. Wilson, S. Roy and S. Ley, "Utilization of flow chemistry in catalysis: New avenues for the selective synthesis of Bis (indolyl) methanes," *Tetrahedron,* vol. 73, no. 14, p. 1218, 2017.
http://www.sciencedirect.com/science/article/pii/S0040402017301588

[359] M. O'Brien, L. Konings, M. Martin and J. Heap, "Harnessing open-source technology for lowcost automation in synthesis: Flow chemical deprotection of silyl ethers using a homemade autosampling system," *Tetrahedron Letters,* vol. 58, no. 25, pp.2409-2413, 2017.
http://www.sciencedirect.com/science/article/pii/S0040403917305749

[358] E. Verhelst, "ontwikkeling en analyse van continue processen in mesoreactoren voor moeilijk opschaalbare batch reacties," *Thesis,* 2017.
http://lib.ugent.be/fulltxt/RUG01/002/352/266/RUG01-002352266_2017_0001_AC.pdf

[357] M. Scala, "Design and synthesis of peptides involved in the inhibition of influenza virus infection," *Thesis,* 2017.
http://elea.unisa.it/handle/10556/2423

[356] J. Bartholomeus, "Réactions d'amination de liens CH: synthèse d'amines propargyliques à partir de N-mésyloxycarbamates et études mécanistiques," *Thesis,* 2017.
https://papyrus.bib.umontreal.ca/xmlui/handle/1866/18430

[355] M. Raymond, "Synthèse de macrocycles par réaction de métathèse et application en débit continu," *Thesis,* 2017.
https://papyrus.bib.umontreal.ca/xmlui/handle/1866/18438

[354] A. Alnomsy, "Synthesis and properties of pyridine containing drugs and heterocycles," *Thesis,* 2017.
http://sro.sussex.ac.uk/id/eprint/70414

[353] E. Mielke, "Study on the Transport Phenomena in Complex Micro-Reactors," *Thesis,*2017.
http://www.ruor.uottawa.ca/handle/10393/36040

[352] S. Vukelić, "Synthesis of Fluorinated Amino Acids and Their Derivatives in Flow," *Thesis,* 2017.
http://www.diss.fu-berlin.de/diss/receive/FUDISS_thesis_000000105192

[351] J. Poh, "Coupling reactions using flow-generated diazo compounds," *Thesis,* 2017.
https://www.repository.cam.ac.uk/handle/1810/268223

[350] P. Bharate, "Automated Glycan Assembly of Oligomannose Glycans for Sensing Applications," *Thesis,* 2017.
http://pubman.mpdl.mpg.de/pubman/item/escidoc:2505819/component/escidoc:2505818/ Thesis.pdf

[349] L. Tamborini, P. Fernandes, F. Paradisi and F. Molinari, "Flow Bioreactors as Complementary Tools for Biocatalytic Process Intensification," *Trends Biotechnol.,* 2017. http://www.sciencedirect.com/science/article/pii/S0167779917302494

2016

Year total: 69

[348] J. Suberu, P. Yamin, R. Cornell, A. Sam and A. Lapkin, "Feasibility of Using 2, 3, 3, 3Tetrafluoropropene (R1234yf) as a Solvent for Solid–Liquid Extraction of Biopharmaceuticals," *ACS Sustainable Chem. Eng.,* vol. 4, no. 5, p. 2559, 2016. http://pubs.acs.org/doi/abs/10.1021/acssuschemeng.5b01721

[347] J. Zakrzewski, A. Smalley, M. Kabeshov, M. Gaunt and A. Lapkin, "Continuous-Flow Synthesis and Derivatization of Aziridines through Palladium-Catalyzed C(sp(3))-H Activation.," *Angew. Chem. Int. Ed. Engl.,* vol. 55, no. 31, pp. 8878-83, 2016. http://onlinelibrary.wiley.com/doi/10.1002/anie.201602483/full

[346] M. Bower, J. Shen, R. Steinbach, J. Tobin, J. Tobin, McCoustra, H. Bridle, V. Arrighi and F. Vilela, "Photoactive and metal-free polyamide-based polymers for water and wastewater treatment under visible light irradiation," *Applied Catalysis B: Environmental,* vol. 193, p. 226, 2016. http://www.sciencedirect.com/science/article/pii/S0926337316302818

[345] C. Mallia, G. Walter and I. Baxendale, "Flow carbonylation of sterically hindered orthosubstituted iodoarenes," *Beilstein J Org Chem,* vol. 12, pp. 1503-11, 2016. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4979912/

[344] C. Mallia, P. Burton, A. Smith, G. Walter and I. Baxendale, "Catalytic Chan-Lam coupling using a 'tube-in-tube' reactor to deliver molecular oxygen as an oxidant," *Beilstein J Org Chem,* vol. 12, pp. 1598-607, 2016. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4979635/

[343] I. Abdiaj and J. Alcázar, "Improving the throughput of batch photochemical reactions using flow: Dual photoredox and nickel catalysis in flow for C(sp(2))C(sp(3)) cross-coupling," *Bioorg. Med. Chem.,* 2016. http://www.sciencedirect.com/science/article/pii/S096808961631495X

[342] T. Glasnov, "Organic Synthesis in Dedicated Continuous Flow Systems," in *Continuous-Flow Chemistry in the Research Laboratory*, 2016, pp. 93-112. http://link.springer.com/chapter/10.1007/978-3-319-32196-7_10

[341] T. Glasnov, "Equipment Overview," in *Continuous-Flow Chemistry in the Research Laboratory*, 2016, pp. 7-20.
http://link.springer.com/chapter/10.1007/978-3-319-32196-7_2

[340] J. Guerra, D. Cantillo and C. Kappe, "Visible-light photoredox catalysis using a macromolecular ruthenium complex: reactivity and recovery by size-exclusion nanofiltration in continuous flow," *Catalysis Science & Technology,* vol. 6, pp. 4695-4699, 2016.
http://pubs.rsc.org/-/content/articlehtml/2016/cy/c6cy00070c

[339] R. Ciriminna, V. Pandarus, F. Béland and M. Pagliaro, "Fine chemical syntheses under flow using Silia Cat catalysts," *Catalysis Science & Techology,* vol. 6, pp. 4678-4685, 2016.
http://pubs.rsc.org/-/content/articlehtml/2016/cy/c6cy00038j

[338] V. Sans and L. Cronin, "Towards dial-a-molecule by integrating continuous flow, analytics and self-optimisation," *Chem Soc Rev,* vol. 45, no. 8, pp. 2032-43, 2016.
http://pubs.rsc.org/-/content/articlehtml/2016/cs/c5cs00793c

[337] H. Gemoets, Y. Su, M. Shang, V. Hessel, R. Luque and T. Noël, "Liquid phase oxidation chemistry in continuous-flow microreactors," *Chem Soc Rev,* vol. 45, no. 1, pp. 83-117, 2016.
http://pubs.rsc.org/en/content/articlehtml/2015/cs/c5cs00447k

[336] N. Kockmann, "Modular Equipment for Chemical Process Development and Small-Scale Production in Multipurpose Plants," *ChemBioEng Reviews,* vol. 3, no. 1, pp. 5-15, 2016.
http://onlinelibrary.wiley.com/doi/10.1002/cben.201500025/full

[335] S. Josland, S. Mumtaz and M. Oelgemöller, "Photodecarboxylations in an Advanced MesoScale Continuous-Flow Photoreactor," *Chemical Engineering & Technology,* 2016.
http://onlinelibrary.wiley.com/doi/10.1002/ceat.201500285/full

[334] K. Loubière, M. Oelgemöller, T. Aillet, O. Dechy-Cabaret and L. Prat, "Continuous-flow photochemistry: A need for chemical engineering," *Chemical Engineering and Processing: Process Intensification,* pp. 120-132, 2016.
http://www.sciencedirect.com/science/article/pii/S0255270116300393

[333] K. Chen, S. Zhang, P. He and P. Li, "Efficient metal-free photochemical borylation of aryl halides under batch and continuous-flow conditions," *Chemical Science,* vol. 7, pp. 36763680, 2016.
http://pubs.rsc.org/-/content/articlehtml/2016/sc/c5sc04521e

[332] J. Poh, S. Lau, I. Dykes, D. Tran, C. Battilocchio and S. Ley, "A multicomponent approach for the preparation of homoallylic alcohols," *Chemical Science,* vol. 7, pp. 6803-6807, 2016.
https://www.repository.cam.ac.uk/bitstream/handle/1810/256655/sichemsci.pdf?sequence=2;isAllowed=y

[331] D. Lücke, T. Dalton, S. Ley and Z. Wilson, "Synthesis of Natural and Unnatural Cyclooligomeric Depsipeptides Enabled by Flow Chemistry," *Chemistry,* vol. 22, no. 12, pp. 4206-17, 2016.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201504457/full

[330] F. Politano, E. Bujan and N. Leadbeater, "Preparation of benzimidazole N-oxides by a twostep continuous flow process," *Chemistry of Heterocyclic Compounds,* vol. 52, no. 11, pp. 952-957, 2016.
http://link.springer.com/article/10.1007/s10593-017-1992-1

[329] N. Elizarov, M. Pucheault and S. Antoniotti, "Highly Efficient Hosomi-Sakurai Reaction of Aromatic Aldehydes Catalyzed by Montmorillonite Doped with Simple Bismuth(III) Salts. Batch and Continuous Flow Studies.," *ChemistrySelect,* vol. 1, no. 12, pp. 3219-3222, 2016.
http://onlinelibrary.wiley.com/doi/10.1002/slct.201600916/full

[328] Y. Qin, W. He, M. Su, Z. Fang, Z. Fang and K. Guo, "An efficient etherification of Ginkgol biloba extracts with fewer side effects in a micro-flow system," *Chinese Chemical Letters,* vol. 27, no. 10, p. 1644, 2016.
http://www.sciencedirect.com/science/article/pii/S1001841716300705

[327] M. Giménez-Marqués, T. Hidalgo, C. Serre and P. Horcajada, "Nanostructured metal–organic frameworks and their bio-related applications," *Coordination Chemistry Reviews,* pp. 342360, 2016.
http://www.sciencedirect.com/science/article/pii/S0010854515002787

[326] P. Filipponi and I. Baxendale, "The Generation of a Library of Bromodomain-Containing Protein Modulators Expedited by Continuous Flow Synthesis," *European Journal of Organic Chemistry,* pp. 2000-2012, 2016.
http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201600222/full

[325] J. Gardiner, C. Hornung, J. Tsanaktsidis and D. Guthrie, "Continuous flow photo-initiated RAFT polymerisation using a tubular photochemical reactor," *European Polymer Journal,* pp. 200-207, 2016.
http://www.sciencedirect.com/science/article/pii/S0014305716300325

[324] P. Zambelli, L. Tamborini, S. Cazzamalli, A. Pinto, S. Arioli, S. Balzaretti, F. Plou, L. FernandezArrojo, F. Molinari, P. Conti and D. Romano, "An efficient continuous flow process for the synthesis of a non-conventional mixture of fructooligosaccharides," *Food Chem,* pp. 607613, 2016.
http://www.sciencedirect.com/science/article/pii/S0308814615008808

[323] A. Nagendiran, H. Sörensen, M. Johansson, C. Taid and J. Bäckvall, "Nanopalladium-catalyzed conjugate reduction of Michael acceptors–application in flow," *Green Chemistry,* vol. 18, no. 9, 2016.
http://pubs.rsc.org/-/content/articlehtml/2016/gc/c5gc02920a

[322] M. de Léséleuc, É. Godin, S. Parisien-Collette, A. Lévesque and S. Collins, "Catalytic Macrocyclization Strategies Using Continuous Flow: Formal Total Synthesis of Ivorenolide A,"*J. Org. Chem.,* vol. 81, no. 15, pp. 6750-6, 2016.
http://pubs.acs.org/doi/abs/10.1021/acs.joc.6b01500

[321] A. Joshi-Pangu, F. Lévesque, H. Roth, S. Oliver, L. Campeau, D. Nicewicz and D. DiRocco, "Acridinium-Based Photocatalysts: A Sustainable Option in Photoredox Catalysis," *J. Org. Chem.,* vol. 81, no. 16, pp. 7244-9, 2016.
http://pubs.acs.org/doi/abs/10.1021/acs.joc.6b01240

[320] T. DeLano, U. Bandarage, N. Palaychuk, J. Green and M. Boyd, "Application of the Photoredox Coupling of Trifluoroborates and Aryl Bromides to Analog Generation Using Continuous Flow," *J. Org. Chem.,* vol. 81, no. 24, pp. 12525-12531, 2016.
https://pubs.acs.org/doi/full/10.1021/acs.joc.6b02408?src=recsys

[319] P. McCaw, B. Deadman, A. Maguire and S. Collins, "Delivering enhanced efficiency in the synthesis of α-diazosulfoxides by exploiting the process control enabled in flow," *Journal of Flow Chemistry,* vol. 6, no. 3, 2016.
http://akademiai.com/doi/abs/10.1556/1846.2016.00013

[318] Y. Wong, J. Tobin, Z. Xu and F. Vilela, "Conjugated porous polymers for photocatalytic applications," *Journal of Materials Chemistry A,* no. 4, 2016.
http://pubs.rsc.org/-/content/articlehtml/2016/ta/c6ta07697a

[317] K. Alexander, E. Paulhus, G. Lazarus and N. Leadbeater, "Exploring the reactivity of a ruthenium complex in the metathesis of biorenewable feedstocks to generate value-added chemicals," *Journal of Organometallic Chemistry,* pp. 74-80, 2016.
http://www.sciencedirect.com/science/article/pii/S0022328X15301479

[316] B. Cerra, S. Mostarda, C. Custodi and A. Macchiarulo, "Integrating multicomponent flow synthesis and computational approaches for the generation of a tetrahydroquinoline compound based library," *Med. Chem. Commun.,* p. 439, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/md/c5md00455a

[315] Y. Fang and G. Tranmer, "Continuous flow photochemistry as an enabling synthetic technology: synthesis of substituted-6(5H)- phenanthridinones for use as poly(ADP-ribose) polymerase inhibitors," *MedChemComm,* 2016. http://pubs.rsc.org/doi/c5md00552

[314] T. Hu, I. Baxendale and M. Baumann, "Exploring Flow Procedures for Diazonium Formation," *Molecules,* 2016. http://www.mdpi.com/1420-3049/21/7/918/htm

[313] D. Svatunek, C. Denk, V. Rosecker, B. Sohr, C. Hametner, G. Allmaier, J. Fröhlich and H. Mikula, "Efficient low-cost preparation of trans- cyclooctenes using a simplified flow setup for photoisomerization," *Monatsh. Chem.,* pp. 579-585, 2016. http://link.springer.com/article/10.1007/s00706-016-1668-z

[312] A. Lin, C. Russell, J. Baker, S. Frailey, J. Sakoff and A. McCluskey, "A facile hybrid 'flow and batch' access to substituted 3,4-dihydro- 2H-benzo[b][1,4]oxazinones.," *Org. Biomol. Chem.,* vol. 14, no. 37, pp. 8732-8742, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/ob/c6ob01153e

[311] Y. Fang and G. Tranmer, "Expedited access to thieno[3,2-c] quinolin-4(5H)-ones and benzo[h]-1,6-naphthyridin-5(6H)-ones via a continuous flow photocyclization method," *Org. Biomol. Chem.,* vol. 14, no. 46, pp. 10799-10803, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/ob/c6ob02279k

[310] P. Dallabernardina, F. Schuhmacher, P. Seeberger and F. Pfrengle, "Automated glycan assembly of xyloglucan oligosaccharides," *Org. Biomol. Chem.,* vol. 14, no. 1, pp. 309-13, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/ob/c5ob02226f

[309] M. Oelgemöller and N. Hoffmann, "Studies in organic and physical photochemistry – an interdisciplinary approach," *Org. Biomol. Chem.,* vol. 14, no. 31, pp. 7392-442, 2016. http://pubs.rsc.org/en/content/articlehtml/2016/ob/c6ob00842a

[308] P. Rullière, P. Cyr and A. Charette, "Difluorocarbene Addition to Alkenes and Alkynes in Continuous Flow," *Org. Lett.,* vol. 18, no. 9, pp. 1988-91, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.orglett.6b00573

[307] N. Palaychuk, T. DeLano, M. Boyd, J. Green and U. Bandarage, "Synthesis of Cycloalkyl Substituted 7-Azaindoles via Photoredox Nickel Dual Catalytic Cross-Coupling in Batch and Continuous Flow," *Org. Lett.,* vol. 18, no. 23, pp. 6180-6183, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.orglett.6b03223

[306] M. Ganiek, M. Becker, M. Ketels and P. Knochel, "Continuous Flow Magnesiation or Zincation of Acrylonitriles, Acrylates, and Nitroolefins. Application to the Synthesis of Butenolides," *Org. Lett.,* vol. 18, no. 4, pp. 828-31, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.orglett.6b00086

[305] K. Chen, M. Cheung, Z. Lin and P. Li, "Metal-free borylation of electron-rich aryl (pseudo) halides under continuous-flow photolytic conditions," *Organic Chemistry Frontiers,* pp. 875879, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/qo/c6qo00109b

[304] B. Ahmed-Omer, E. Sliwinski, J. Cerroti and S. Ley, "Continuous processing and efficient in situ reaction monitoring of a hypervalent iodine (III) mediated cyclopropanation using benchtop NMR spectroscopy," *Organic Process Research & Development,* pp. 1603-1614, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.6b00177

[303] L. Elliott, M. Berry, B. Harji, D. Klauber, J. Leonard and K. Booker-Milburn, "A small-footprint, high-capacity flow reactor for uv photochemical synthesis on the kilogram scale," *Organic Process Research & Development,* pp. 1806-1811, 2016. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.6b00277

[302] J. Tobin, J. Liu, H. Hayes, M. Demleitner and D. Ellis, "BODIPY-based conjugated microporous polymers as reusable heterogeneous photosensitisers in a photochemical flow reactor," *Polymer Chemistry,* no. 7, p. 6662, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/py/c6py01393g

[301] T. a, C. a, D. a, D. a, S. a, X. b and R. Whitby, "Thermolysis of 1, 3-dioxin-4-ones: fast generation of kinetic data using in-line analysis under flow," *React. Chem. Eng.,* 2016. http://pubs.rsc.org/-/content/articlehtml/2016/re/c5re00007f

[300] P. Yaseneva, P. Hodgson, J. Zakrzewski, S. Falß, R. Meadows and A. Lapkin, "Continuous flow Buchwald–Hartwig amination of a pharmaceutical intermediate," *React. Chem. Eng.,* p. 229, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/re/c5re00048c

[299] F. Strauss, D. Cantillo, D. Cantillo and C. Kappe, "A laboratory-scale continuous flow chlorine generator for organic synthesis," *React. Chem. Eng.,* p. 472, 2016. http://pubs.rsc.org/-/content/articlehtml/2016/re/c6re00135a

[298] D. Fitzpatrick and S. Ley, "Engineering chemistry: integrating batch and flow reactions on a single, automated reactor platform," *Reaction Chemistry & Engineering,* pp. 629-635, 2016.
http://pubs.rsc.org/-/content/articlehtml/2016/re/c6re00160b

[297] Hansen, S. Wilson, Z. Ulven, T. Ley and S. V, "Controlled generation and use of CO in flow," *Reaction Chemistry & Engineering,* p. 280, 2016.
https://findresearcher.sdu.dk:8443/ws/files/120047479/ReactChemEng_2016_1_280_Hanse n.pdf

[296] M. Baumann and I. Baxendale, "Continuous photochemistry: the flow synthesis of ibuprofen via a photo-Favorskii rearrangement," *Reaction Chemistry & Engineering,* pp. 147-150, 2016.
http://pubs.rsc.org/-/content/articlehtml/2016/re/c5re00037h

[295] C. Archambault and N. Leadbeater, "A benchtop NMR spectrometer as a tool for monitoring mesoscale continuous-flow organic synthesis: equipment interface and assessment in four organic transformations," *RSC Advances,* 2016.
http://pubs.rsc.org/-/content/articlehtml/2016/ra/c6ra19662d

[294] M. Balti, S. Miller, M. Efrit and N. Leadbeater, "An approach to the synthesis of 4-aryl and 5aryl substituted thiazole-2 (3 H)-thiones employing flow processing," *RSC Advances,* pp. 72165-72169, 2016.
http://pubs.rsc.org/-/content/articlehtml/2016/ra/c6ra15488c

[293] 龚磊, 袁振文, 代立, 王苏and 廖本仁, "微通道反应器内合成羟基新戊醛," *Shanghai Chemical Industry,* no. 6, p. 19, 2016.
http://www.cqvip.com/qk/93195x/201606/669164626.html

[292] M. Baumann and I. Baxendale, "Continuous-Flow Synthesis of 2H-Azirines and Their Diastereoselective Transformation to Aziridines," *Synlett,* vol. 27, no. 1, pp. 159-163, 2016.
https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0035-1560391

[291] B. Leforestier and M. Vogtle, "Safe Generation and Direct Use of Chlorine Azide in Flow Chemistry: 1, 2-Azidochlorination of Olefins and Access to Triazoles," *Synlett,* vol. 27, no. 13, pp. 1957-1962, 2016.
https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0035-1561659

[290] M. Hutchings and T. Wirth, "A Simple Setup for Transfer Hydrogenations in Flow Chemistry," *Synlett ,* vol. 27, no. 12, pp. 1832-1835, 2016.
https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0035-1561624

[289] L. Tamborini, V. Nicosia, P. Conti, F. Dall'Oglio, C. Micheli, B. Nielsen, A. Jensen, D. SPickering andA. Pinto, "γ-Glutamyl-dipeptides: Easy tools to rapidly probe the stereoelectronic properties of the ionotropic glutamate receptor binding pocket," *Tetrahedron,* vol. 72, no. 51, pp. 8486-8492, 2016. http://www.sciencedirect.com/science/article/pii/S0040402016311693

[288] M. Asadi, J. Hooper and D. Lupton, "Biodiesel synthesis using integrated acid and base catalysis in continuous flow," *Tetrahedron,* vol. 72, no. 26, pp. 3729-3733, 2016. http://www.sciencedirect.com/science/article/pii/S0040402016302046

[287] J. Bao and G. Tranmer, "The solid copper-mediated C–N cross-coupling of phenylboronic acids under continuous flow conditions," *Tetrahedron Letters,* vol. 57, no. 6, pp. 654-657, 2016. http://www.sciencedirect.com/science/article/pii/S0040403915305207

[286] A. Lombardia, "Application of solid-supported [Pd (NHC)] complexes in Suzuki-Miyaura, Heck and Sonogashira couplings. Studies under batch and continuous flow conditions.," *Thesis,* 2016. http://www.tdx.cat/bitstream/handle/10803/386577/TESI.pdf?sequence=1#page=118

[285] M. Becker, "Continuous flow metalations of arenes, heteroarenes and formamides using lithium and zinc reagents," *Thesis,* 2016. https://edoc.ub.uni-muenchen.de/21310/1/Becker_Matthias_Richard.pdf

[284] Y. Fang, "The application of flow chemistry techniques in medicinal chemistry programs: the development of flow-photocyclization methods for the synthesis of phenanthridinone-type compounds.," *Thesis,* 2016. https://mspace.lib.umanitoba.ca/handle/1993/31817

[283] I. Alonso, "Nova abordagem para a síntese total do espilantol e avaliação da atividade antinociceptiva," *Thesis,* 2016. http://repositorio.unicamp.br/handle/REPOSIP/325762

[282] H. Piras, "Synthèse de sulfilimines et de sulfoximines catalysée par les métaux de transition," *Thesis,* 2016. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/16005

[281] J. Sonck, "Ontwikkeling van een continue syntheseroute voor gelithieerd methoxyalleen," *Thesis,* 2016. http://lib.ugent.be/fulltxt/RUG01/002/275/068/RUG01-002275068_2016_0001_AC.pdf

[280] M. Hutchings, "Novel Process Windows: Reactions Using Tricky Reagents," *Thesis,* 2016. http://orca-mwe.cf.ac.uk/100921/1/Hutchings%20MJ%20Final%20Thesis.pdf

2015

Year total: 72

[279] S. Ley, D. Fitzpatrick, R. Myers, C. Battilocchio and R. Ingham, "Maschinengestützte organische Synthese," *Angewandte Chemie,* vol. 127, no. 35, p. 10260, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ange.201501618/full

[278] M. Brzozowski, M. O'Brien, S. Ley and A. Polyzos, "Flow chemistry: intelligent processing of gas-liquid transformations using a tube-in-tube reactor," *Acc. Chem. Res.,* vol. 48, no. 2, pp. 349-62, 2015. https://pubs.acs.org/doi/full/10.1021/ar500359m?src=recsys

[277] C. Correia, K. Gilmore, D. McQuade and P. Seeberger, "A concise flow synthesis of efavirenz," *Angew. Chem. Int. Ed. Engl.,* vol. 54, no. 16, pp. 4945-8, 2015. http://onlinelibrary.wiley.com/doi/10.1002/anie.201411728/full

[276] C. Correia, K. Gilmore, D. McQuade and P. Seeberge, "Eine kurze Durchflusssynthese von Efavirenz," *Angewandte Chemie,* vol. 127, no. 16, p. 5028, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ange.201411728/full

[275] M. Helgesen, J. Carlé, G. Benatto, R. d, M. Jørgensen, E. Bundgaard and F. Krebs, "Making Ends Meet: Flow Synthesis as the Answer to Reproducible High-Performance Conjugated Polymers on the Scale that Roll-to-Roll Processing Demands," *Adv. Energy Mater.,* 2015. http://onlinelibrary.wiley.com/doi/10.1002/aenm.201401996/full

[274] S. Ley, D. Fitzpatrick, R. Myers, C. Battilocchio and R. Ingham, "Machine-Assisted Organic Synthesis," *Angew. Chem. Int. Ed. Engl.,* vol.54,no.35,pp.10122-36, 2015. http://onlinelibrary.wiley.com/doi/10.1002/anie.201501618/full

[273] S. Ley, D. Fitzpatrick, R. Ingham and R. Myers, "Organic synthesis: march of the machines.," *Angew. Chem. Int. Ed. Engl.,* vol. 54, no. 11, pp. 3449-64, 2015. http://onlinelibrary.wiley.com/doi/10.1002/anie.201410744/full

[272] S. Ley, D. Fitzpatrick, R. Ingham and R. Myers, "Organische Synthese: Vormarsch der Maschinen," *Angewandte Chemie,* vol. 127, no. 11, p. 3514, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ange.201410744/full

[271] A. Pitts, F. O'Hara, R. Snell and M. Gaunt, "A concise and scalable strategy for the total synthesis of dictyodendrin B based on sequential C-H functionalization.," *Angew. Chem. Int. Ed. Engl.,* vol. 54, no. 18, pp. 5451-5, 2015. http://onlinelibrary.wiley.com/doi/10.1002/anie.201500067/full

[270] H. Pordanjani, C. Faderl, J. Wang, C. Motti, P. Junk and M. Oelgemöller, "Photodecarboxylative Benzylations of N-Methoxyphthalimide under batch and continuousflow conditions," *Australian Journal of Chemistry,* vol. 68, no. 11, pp. 1662-1667, 2015. http://www.publish.csiro.au/CH/CH15356

[269] A. Martínez, J. Krinsky, I. Peñafiel, S. Castillón, K. Loponov, A. Lapkin, C. Godard and C. Claver, "Heterogenization of Pd–NHC complexes onto a silica support and their application in Suzuki–Miyaura coupling under batch and continuous flow conditions," *Catalysis Science & Technology,* pp. 310-319, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/cy/c4cy00829d

[268] M. Briggs, A. Slater, N. Lunt, S. Jiang, M. Little, R. Greenaway, T. Hasell, C. Battilocchio, S. Ley and A. Cooper, "Dynamic flow synthesis of porous organic cages," *Chem Commun (Camb).,* vol. 51, no. 98, pp. 17390-3, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/cc/c5cc07447a

[267] M. Brzozowski, J. Forni, G. Paul Savage and A. Polyzos, "The direct α-C(sp(3))-H functionalisation of N-aryl tetrahydroisoquinolines via an iron-catalysed aerobic nitroMannich reaction and continuous flow processing," *Chem. Commun. (Camb.),* vol. 51, no. 2, pp. 334-7, 2015. https://pubmed.ncbi.nlm.nih.gov/25407918/

[266] J. Bao and G. Tranmer, "The utilization of copper flow reactors in organic synthesis," *Chem. Commun. (Camb.),* vol. 51, no. 15, pp. 3037-44, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/cc/c4cc09221j

[265] T. Nobuta, G. Xiao, D. Ghislieri, K. Gilmore and P. Seeberger, "Continuous and convergent access to vicinyl amino alcohols.," *Chem. Commun. (Camb.),* vol. 51, no. 82, pp. 15133-6, 2015. http://pubman.mpdl.mpg.de/pubman/item/escidoc:2183444/component/escidoc:2218601/ 2183444_supp.pdf

[264] I. Baxendale, "A Short Multistep Flow Synthesis of a Potential Spirocyclic Fragrance Component," *Chemical Engineering & Technology,* vol. 38, no. 10, pp. 1713-1716, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ceat.201500255/full

[263] P. Witt, S. Somasi, I. Khan, D. Blaylock, J. Newby and S. Ley, "Modeling mesoscale reactors for the production of fine chemicals," *Chemical Engineering Journal,* p. 353, 2015.
http://www.sciencedirect.com/science/article/pii/S1385894714016404

[262] B. Deadman, D. Browne, I. Baxendale and S. Ley, "Back Pressure Regulation of SlurryForming Reactions in Continuous Flow," *Chemical Engineering Technology,* vol. 38, no. 2, p. 259, 2015.
http://onlinelibrary.wiley.com/doi/10.1002/ceat.201400445/full

[261] D. Cantillo, C. Mateos, J. Rincon, O. de Frutos and C. Kappe, "Light-Induced C-H Arylation of (Hetero)arenes by In Situ Generated Diazo Anhydrides.," *Chemistry,* vol. 21, no. 37, pp. 12894-8, 2015.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201502357/full

[260] D. Ushakov, M. Plutschack, K. Gilmore and P. Seeberger, "Factors influencing the regioselectivity of the oxidation of asymmetric secondary amines with singlet oxygen," *Chemistry,* vol. 21, no. 17, pp. 6528-34, 2015.
http://onlinelibrary.wiley.com/doi/10.1002/chem.201500121/full

[259] F. Grenier-Aïch, Y. Lai, M. Guerette, A. Holmes, Y. Tao, W. Wong and M. Leclerc, "Electroactive and photoactive poly [isoindigo-alt-EDOT] synthesized using direct (hetero) arylation polymerization in batch and in continuous flow," *Chemistry of Materials,* vol. 27, no. 6, p. 2137–2143, 2015.
https://dam-oclc.bac-lac.gc.ca/download?is_thesis=1;oclc_number=1256279961;id=ce87818b-ef5f-4fbd-a3d9-7dcaa9067f64;fileName=36141.pdf#page=149

[258] Y. Wu, W. Chen, Y. Zhao and H. Piao, "Efficient synthesis of panaxadiol derivatives using continuous-flow microreactor and evaluation of anti-tumor activity," *Chinese Chemical Letters,* vol. 26, no. 3, pp. 334-338, 2015.
http://www.sciencedirect.com/science/article/pii/S1001841714004641

[257] N. Ranasinghe and G. Jones, "Flow and Microwave Assisted Synthesis of Medicinally Relevant Indoles," *Current Green Chemistry,* vol. 2, p. 66, 2015.
http://www.ingentaconnect.com/content/ben/cgc/2015/00000002/00000001/art00009

[256] C. Henry, D. Bolien, B. Ibanescu, S. Bloodworth, D. Harrowven, X. Zhang, A. Craven, H. Sneddon and R. Whitby, "Generation and Trapping of Ketenes in Flow," *European J Org Chem,* pp. 1491-1499, 2015.
http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201403603/full

[255] C. Stanetty and I. Baxendale, "Large-Scale Synthesis of Crystalline 1,2,3,4,6,7-Hexa-O-acetyll-glycero-α-d-manno-heptopyranose," *European J Org Chem,* pp. 2718-2726, 2015. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201500024/full

[254] T. Hamlin and N. Leadbeater, "Real-time Monitoring of Reactions Performed Using Continuous-flow Processing: The Preparation of 3-Acetylcoumarin as an Example," *J Vis Exp,* 2015. https://www.jove.com/video/52393/real-time-monitoring-reactions-performed-using-continuous-flow

[253] M. Brodney, E. Beck, C. Butler, G. Barreiro, E. Johnson, D. Riddell, K. Parris, C. Nolan, Y. Fan, K. Atchison, C. Gonzales, A. Robshaw, S. Doran, M. Bundesmann, L. Buzon, J. Dutra, K. Henegar, E. LaChapelle, X. Hou, B. Rogers, J. Pandit, R. Lira, L. Martinez-Alsina and Mi, "Utilizing structures of CYP2D6 and BACE1 complexes to reduce risk of drug-drug interactions with a novel series of centrally efficacious BACE1 inhibitors," *J. Med. Chem.,* vol. 58, no. 7, pp. 3223-52, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.jmedchem.5b00191

[252] M. Baumann and I. Baxendale, "Batch and Flow Synthesis of Pyrrolo[1,2-a]-quinolines via an Allene-Based Reaction Cascade," *J. Org. Chem.,* vol. 80, no. 21, pp. 10806-16, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.joc.5b01982

[251] X. Li, A. Chen, Y. Zhou, L. Huang, Z. Fang and H. Guo, "Two-Stage Flow Synthesis of Coumarin via O-Acetylation of Salicylaldehyde," *Journal of Flow Chemistry,* vol. 5, no. 2, 2015. http://akademiai.com/doi/abs/10.1556/1846.2014.00043

[250] A. Bedard, J. Santandrea and S. Collins, "Efficient continuous-flow synthesis of macrocyclic triazoles," *Journal of Flow Chemistry,* vol. 5, no. 3, 2015. http://akademiai.com/doi/abs/10.1556/JFC-D-14-00042

[249] M. Negus and A. Leadbeate, "The preparation of ethyl levulinate facilitated by flow processing: The catalyzed and uncatalyzed esterification of levulinic acid," *Journal of Flow Chemistry,* vol. 5, no. 3, 2015. http://akademiai.com/doi/abs/10.1556/1846.2015.00005

[248] A. Baker, M. Graz, R. Saunders, G. Evans, I. Pitotti and T. Wirth, "Flow alkylation of thiols, phenols, and amines using a heterogenous base in a packed-bed reactor," *Journal of Flow Chemistry,* vol. 5, no. 2, 2015. http://akademiai.com/doi/abs/10.1556/1846.2015.00009

[247] M. Nieves-Remacha and K. Jensen, "Mass transfer characteristics of ozonolysis in microreactors and advanced-flow reactors," *Journal of Flow Chemistry,* vol. 5, no. 3, 2015. http://akademiai.com/doi/abs/10.1556/1846.2015.00010

[246] A. Martin, A. Siamaki, K. Belecki and B. Gupton, "A flow-based synthesis of telmisartan," *Journal of Flow Chemistry,* vol. 5, no. 3, 2015. http://akademiai.com/doi/abs/10.1556/JFC-D-15-00002

[245] V. Arima, P. Watts and G. Pascali, "Microfluidics in planar microchannels: synthesis of chemical compounds on-chip," *Lab-on-a-Chip Devices and Micro-Total Analysis Systems,* pp. 197-239, 2015. http://link.springer.com/chapter/10.1007/978-3-319-08687-3_8

[244] L. Tamborini, F. Mastronardi, F. Dall'Oglio, C. De Micheli, B. Nielsen, L. Presti, P. Conti and A. Pinto, "Synthesis of unusual isoxazoline containing β and γ-dipeptides as potential glutamate receptor ligands," *Med. Chem. Commun.,* pp. 1260-1266, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/md/c5md00159e

[243] C. Manansala and G. Tranmer, "Flow Synthesis of 2-Methylpyridines via α-Methylation," *Molecules,* vol. 20, no. 9, pp. 15797-806, 2015. http://www.mdpi.com/1420-3049/20/9/15797/htm

[242] T. Kohl, C. Hornung and J. Tsanaktsidis, "Amination of Aryl Halides and Esters Using Intensified Continuous Flow Processing," *Molecules,* vol. 20, no. 10, pp. 17860-71, 2015. http://www.mdpi.com/1420-3049/20/10/17860/htm

[241] J. Beatty, J. Douglas, K. Cole and C. Stephenson, "A scalable and operationally simple radical trifluoromethylation," *Nature Communication,* 2015. https://www.nature.com/ncomms/2015/150810/ncomms8919/full/ncomms8919.html?WT.ec_id=NCOMMS-20150812;spMailingID=49302896;spUserID=ODkwMTM2NjQyNgS2;spJobID=741904452;spReportId=NzQxOTA0NDUyS0

[240] C. Gourdon, S. Elgue and L. Prat, "What are the needs for Process Intensification?," *Oil & Gas Science and Technology – Rev. IFP Energies nouvelles,* vol. 70, no. 3, pp. 463-473, 2015. https://ogst.ifpenergiesnouvelles.fr/articles/ogst/abs/2015/03/ogst140093/ogst140093. html

[239] S. Lau, S. Bourne, B. Martin, B. Schenkel, G. Penn and S. Ley, "Synthesis of a Precursor to Sacubitril Using Enabling Technologies," *Org Lett.,* vol. 17, no. 21, p. 5436–5439, 2015. https://www.repository.cam.ac.uk/bitstream/handle/1810/251223/Synthesis%20of%20a%20Precursor%20to%20Sacubitril%20using%20Enabling%20Technologies_ESI_Revised.docx?se quence=4

[238] P. Cossar, L. Hizartzidis, M. Simone, A. McCluskey and C. Gordon, "The expanding utility of continuous flow hydrogenation," *Org. Biomol. Chem.,* vol. 13, no. 26, pp. 7119-30, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c5ob01067e

[237] Z. Yousuf, A. Richards, A. Dwyer, B. Linclau and D. Harrowven, "The development of a short route to the API ropinirole hydrochloride," *Org. Biomol. Chem.,* vol. 13, no. 42, pp. 10532-9, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c5ob01739d

[236] L. C. Alves, A. Desiderá, K. de Oliveira, S. Newton, S. Ley and T. Brocksom, "A practical decagram scale ring expansion of (R)-(-)-carvone to (R)-(+)-3-methyl-6-isopropenyl-cyclohept-3enone-1," *Org. Biomol. Chem.,* vol. 13, no. 28, pp. 7633-42, 2015. http://pubs.rsc.org/en/content/articlehtml/2015/ob/c5ob00525f

[235] M. Baumann, A. Rodriguez Garcia and I. Baxendale, "Flow synthesis of ethyl isocyanoacetate enabling the telescoped synthesis of 1,2,4-triazoles and pyrrolo-[1,2-c]pyrimidines," *Org. Biomol. Chem.,* vol. 13, no. 14, pp. 4231-9, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c5ob00245a

[234] S. Glöckner, D. Tran, R. Ingham, S. Fenner, Z. Wilson, C. Battilocchio and S. Ley, "The rapid synthesis of oxazolines and their heterogeneous oxidation to oxazoles under flow conditions," *Org. Biomol. Chem.,* vol. 13, no. 1, pp. 207-14, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c4ob02105c

[233] J. Souto, R. Stockman and S. Ley, "Development of a flow method for the hydroboration/oxidation of olefins," *Org. Biomol. Chem.,* vol. 13, no. 13, pp. 3871-7, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c5ob00170f

[232] M. Rojo, L. Guetzoyan and I. Baxendale, "A monolith immobilised iridium Cp* catalyst for hydrogen transfer reactions under flow conditions," *Org. Biomol. Chem.,* vol. 13, no. 6, pp. 1768-77, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/ob/c4ob02376e

[231] S. Matthies, D. McQuade and P. Seeberger, "Homogeneous Gold-Catalyzed Glycosylations in Continuous Flow.," *Org. Lett.,* no. 15, pp. 3670-3, 2015. http://pubman.mpdl.mpg.de/pubman/item/escidoc:2172675/component/escidoc:2213945/ 2172675_supp.pdf

[230] N. Oger, E. Grognec and F. Felpin, "Handling diazonium salts in flow for organic and material chemistry," *Organic Chemistry Frontiers,* no. 2, p. 590, 2015. http://pubs.rsc.org/-/content/articlehtml/2015/qo/c5qo00037h

[229] B. Gutmann, P. Elsner, A. O'Kearney-McMullan, W. Goundry, D. Roberge and C. Kappe, "Development of a continuous flow sulfoxide imidation protocol using azide sources under superacidic conditions," *Organic Process Research & Development,* vol. 19, no. 8, pp. 10621067, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00217

[228] R. Ciriminna, V. Pandarus, A. Fidalgo, L. Ilharco, F. Béland and M. Pagliaro, "Silia Cat: A Versatile Catalyst Series for Synthetic Organic Chemistry," *Organic Process Research & Development,* vol. 19, no. 7, pp. 755-768, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00137

[227] S. Karlsson, R. Bergman, C. Löfberg, P. Moore, F. Pontén, J. Tholander and H. Sörensen, "Development of a Large-Scale Route to an MCH1 Receptor Antagonist: Investigation of a Staudinger Ketene–Imine Cycloaddition in Batch and Flow Mode," *Organic Process Research & Development,* vol. 19, no. 12, pp. 2067-2074, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00319

[226] S. Müller, A. Murat, P. Hellier and T. Wirth, "Toward a Large-Scale Approach to Milnacipran Analogues Using Diazo Compounds in Flow Chemistry," *Organic Process Research & Development,* vol. 20, no. 2, pp. 495-502, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00308

[225] P. Filipponi, A. Gioiello and I. Baxendale, "Controlled flow precipitation as a valuable tool for synthesis," *Organic Process Research and Development,* vol. 20, no. 2, pp. 371-375, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00331

[224] D. Fitzpatrick, C. Battilocchio and S. Ley, "A novel internet-based reaction monitoring, control and autonomous self-optimization platform for chemical synthesis," *Organic Process Research & Development,* vol. 20, no. 2, p. 386–394, 2015. http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00313

[223] A. Constantinou, G. Wu, A. Corredera, P. Ellis, D. Bethell, G. Hutchings, S. Kuhn and A. Gavriilidis, "Continuous Heterogeneously Catalyzed Oxidation of Benzyl Alcohol in a Ceramic Membrane Packed-Bed Reactor," *Organic Process Research & Development,* vol. 19, no. 12, p. 1973–1979, 2015.
http://pubs.acs.org/doi/abs/10.1021/acs.oprd.5b00220

[222] P. Watts, "Organometallic-Catalysed Gas–Liquid Reactions in Continuous Flow Reactors," *Organometallic Flow Chemistry,* pp. 77-95, 2015.
http://link.springer.com/chapter/10.1007/3418_2015_159

[221] J. Poh, D. Browne and S. Ley, "A multistep continuous flow synthesis machine for the preparation of pyrazoles via a metal-free amine-redox process," *Reaction Chemistry & Engineering,* pp. 101-105, 2015.
https://www.repository.cam.ac.uk/bitstream/handle/1810/252343/pyrazoles-supporting-inf ormation.pdf?sequence=1

[220] K. Barlow, V. Bernabeu, X. Hao, T. Hughes, O. EHutt, A. Polyzos, K. Turner and G. Moad, "Triphenylphosphine-grafted, RAFT-synthesised, porous monoliths as catalysts for Michael addition in flow synthesis," *Reactive and Functional Polymers,* pp. 89-96, 2015.
http://www.sciencedirect.com/science/article/pii/S1381514815300468

[219] C. Russell, A. Lin, P. Hains, M. Simone and P. Robinson, "An integrated flow and microwave approach to a broad spectrum protein kinase inhibitor," *RSC Advances,* vol. 5, pp. 9343393437, 2015.
http://pubs.rsc.org/-/content/articlehtml/2015/ra/c5ra09426g

[218] A. Hafner and S. Ley, "Generation of reactive ketenes under flow conditions through zincmediated dehalogenation," *Synlett,* vol. 26, no. 10, pp. 1470-1474, 2015.
https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0034-1380679

[217] C. Wendell and M. Boyd, "Reevaluation of the 2-nitrobenzyl protecting group for nitrogen containing compounds: an application of flow photochemistry," *Tetrahedron Letters,* vol. 56, no. 17, pp. 897-899, 2015.
http://www.sciencedirect.com/science/article/pii/S0040403915000106

[216] P. Cyr, "Hydroxylation d'halogénures d'aryle utilisant la chimie en flux continu et développement d'une nouvelle méthodologie de synthèse de 3-aminoindazoles," *Thesis,* 2015.
https://papyrus.bib.umontreal.ca/xmlui/handle/1866/11461

[215] L. Miller, "Application of Flow-Based Methods to Inorganic Materials Synthesis," *Thesis,* 2015.
http://diginole.lib.fsu.edu/islandora/object/fsu%3A291317/

[214] F. Mastronardi, "Synthesis And Structure-Activity Relationship Of New Subtype Selective Kainate Receptor Ligands," *Thesis,* 2015.
https://air.unimi.it/handle/2434/252272

[213] A. Longstreet, "Access to polysubstituted heterocycles and fluorescent indicators from a single enamine class," *Thesis,* 2015.
http://search.proquest.com/openview/236ea03a09385f08dfcf24c2eeb50ce6/1?pq-origsite= gscholar;cbl=18750;diss=y

[212] A. Vlassova, "Visible-light-mediated synthesis of helicenes in batch and continuous flow systems," *Thesis,* 2015.
https://papyrus.bib.umontreal.ca/xmlui/handle/1866/11466

[211] A. Hernandez-Perez, "Réaction de photocycle déshydrogénation par catalyse photorédox," *Thesis,* 2015.
https://papyrus.bib.umontreal.ca/xmlui/handle/1866/12319

[210] P. Plouffe, "Micro-Reactor Design for Fast Liquid-Liquid Reactions," *Thesis,* 2015.
http://www.ruor.uottawa.ca/handle/10393/32875

[209] A. Falk, E. Bengtsson, S. Juhlin, D. Le and L. Niklasson, "Utveckling av flödesreaktor: Ett sammarbetesprojekt mellan fakulteten för teknik och naturvetenskap vid Uppsala Universitet och Fagrell produktutveckling AB," *Thesis,* 2015.
http://www.diva-portal.org/smash/get/diva2:826794/FULLTEXT01.pdf

[208] S. Clinton, "A Continuous Process Towards the Synthesis of Quinolones, "*Thesis,* 2015.
http://scholarscompass.vcu.edu/etd/3852/?utm_source=scholarscompass.vcu.edu%2Fetd%2F3852;utm_medium=PDF;utm_campaign=PDFCoverPages

2014

Year total: 46

[207] N. Alonso, L. Miller, J. de M Muñoz, J. Alcázar and D. McQuade, "Continuous synthesis of organozinc halides coupled to Negishi reactions," *Advanced Synthesis & Catalysis,* p. 3737– 3741, 2014.
http://onlinelibrary.wiley.com/doi/10.1002/adsc.201400243/full

[206] M. Werner, C. Kuratli, R. Martin, R. Hochstrasser, D. Wechsler, T. Enderle, A. Alanine and H. Vog, "Nahtlose Integration von Dosis-Wirkungs-basiertem Screening und Flusschemie: effiziente Erzeugung von Struktur-Aktivitäts-Beziehungen von β-Sekretase(BACE1)Hemmern," *Angew. Chem.,* pp. 1730-1735, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ange.201309301/full

[205] T. Rodrigues, P. Schneider and G. Schneider, "Accessing new chemical entities through microfluidic systems," *Angew. Chem. Int. Ed. Engl.,* vol. 53, no. 23, pp. 5750-8, 2014. http://onlinelibrary.wiley.com/doi/10.1002/anie.201400988/full

[204] M. Werner, C. Kuratli, R. Martin, R. Hochstrasser, D. Wechsler, T. Enderle, A. Alanine and H. Vogel, "Seamless integration of dose-response screening and flow chemistry: efficient generation of structure-activity relationship data of β-secretase (BACE1) inhibitors," *Angew. Chem. Int. Ed. Engl.,* vol. 53, no. 6, pp. 1704-8, 2014. http://onlinelibrary.wiley.com/doi/10.1002/anie.201309301/full

[203] T. Petersen, M. Becker and P. Knochel, "Magnesierung funktionalisierter Heterocyclen und Acrylate unter Verwendung von TMPMgCl LiCl in kontinuierlichem Fluss," *Angewandte Chemie,* vol. 126, no. 30, pp. 8067-8071, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ange.201404221/full

[202] T. Rodrigues, P. Schneider and G. Schneider, "Neue chemische Strukturen durch Mikrofluidiksysteme," *Angewandte Chemie,* vol. 126, no. 23, p. 5858, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ange.201400988/full

[201] A. Manvar and A. Shah, "Continuous Flow and Microwave-Assisted Vorbrüggen Glycosylations: Historical Perspective to High-Throughput Strategies," *Asian Journal of Organic Chemistry,* vol. 3, no. 11, pp. 1134-1149, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ajoc.201402119/full

[200] R. Ingham, C. Battilocchio, J. Hawkins and S. Ley, "Integration of enabling methods for the automated flow preparation of piperazine-2-carboxamide.," *Beilstein J Org Chem,* pp. 64152, 2014. https://www.beilstein-journals.org/bjoc/content/supplementary/1860-5397-10-56-S1.pdf

[199] W. Reynolds, P. Plucinski and C. Frost, "Robust and reusable supported palladium catalysts for cross-coupling reactions in flow," *Catalysis Science & Technology,* p. 948, 2014. https://pubs.rsc.org/en/content/articlelanding/2014/cy/c3cy00836c

[198] D. Ushakov, K. Gilmore and P. Seeberger, "Consecutive oxygen-based oxidations convert amines to α-cyanoepoxides.," *Chem. Commun. (Camb.),* vol. 50, no. 84, pp. 12649-51, 2014. https://pdfs.semanticscholar.org/9bff/0ed3d0cde70d0aa6097fc2b7946a80e90207.pdf

[197] K. Gilmore, D. Kopetzki, J. Lee, Z. Horváth, D. McQuade, A. Seidel-Morgenstern and P. Seeberger, "Continuous synthesis of artemisinin-derived medicines.," *Chem. Commun. (Camb.),* vol. 50, no. 84, pp. 12652-5, 2014. https://pdfs.semanticscholar.org/15d2/b9e60a126d9d5b9a7943ae4f1874d7bfd4d9.pdf

[196] R. Myers, D. Fitzpatrick, R. Turner and S. Ley, "Flow chemistry meets advanced functional materials," *Chemistry,* vol. 20, no. 39, pp. 12348-66, 2014. http://onlinelibrary.wiley.com/doi/10.1002/chem.201402801/full

[195] J. Jacq and P. Pasau, "Multistep flow synthesis of 5-amino-2-aryl-2H-[1,2,3]-triazole-4carbonitriles.," *Chemistry,* vol. 20, no. 38, pp. 12223-33, 2014. http://onlinelibrary.wiley.com/doi/10.1002/chem.201402074/full

[194] U. Gross, P. Koos, M. O'Brien, A. Polyzos and S. Ley, "A General Continuous Flow Methodfor Palladium Catalysed Carbonylation Reactions Using Single and Multiple Tube-in- Tube GasLiquid Microreactors," *European Journal of Organic Chemistry,* p. 6418, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201402804/full

[193] C. Battilocchio, B. Bhawal, B. Bhawal, B. Deadman, J. Hawkins and S. Ley, "Flow-Based, Cerium Oxide Enhanced, Low-Level Palladium Sonogashira and Heck Coupling Reactions by Perovskite Catalysts," *Israel Journal of Chemistry,* vol. 54, no. 4, p. 371, 2014. http://onlinelibrary.wiley.com/doi/10.1002/ijch.201300049/full

[192] A. Butler, M. Thompson, P. Maydom, J. Newby, K. Guo, H. Adams and B. Chen, "Regioselective synthesis of 3-aminoimidazo[1,2-a]-pyrimidines under continuous flow conditions," *J. Org. Chem.,* vol. 79, no. 21, pp. 10196-202, 2014. http://pubs.acs.org/doi/abs/10.1021/jo501861g

[191] M. Hamon, N. Dickinson, A. Devineau, D. Bolien, M. Tranchant, C. Taillier, I. Jabin, D. Harrowven, R. Whitby, A. Ganesan and V. Dalla, "Intra- and intermolecular alkylation of N,Oacetals and π-activated alcohols catalyzed by in situ generated acid," *J. Org. Chem.,* vol. 79, no. 5, pp. 1900-12, 2014. http://pubs.acs.org/doi/abs/10.1021/jo4015886

[190] N. Alonso, M. de, B. Egle, J. Vrijdag, W. De Borggraeve, A. Hoz, A. Díaz-Ortiz and J. Alcázar, "First Example of a Continuous-Flow Carbonylation Reaction Using Aryl Formates as CO Precursors," *Journal of Flow Chemistry,* vol. 4, no. 3, 2014. http://akademiai.com/doi/abs/10.1556/JFC-D-14-00005

[189] A. Pagnoux-Ozherelyeva, D. Bolien, S. Gaillard, F. Peudru, J. Lohier, R. Whitby and J. Renaud, "Microwave irradiation and flow chemistry for a straightforward synthesis of piano-stool iron complexes," *Journal of Organometallic Chemistry,* pp. 35-42, 2014. http://www.sciencedirect.com/science/article/pii/S0022328X14004586

[188] K. Jensen, B. Reizman and S. Newman, "Tools for chemical synthesis in microsystems," *Lab Chip,* vol. 14, no. 17, pp. 3206-12, 2014. http://pubs.rsc.org/-/content/articlehtml/2014/lc/c4lc00330f

[187] C. Hornung, K. von Känel, I. Martinez-Botella, M. Espiritu, X. Nguyen, A. Postma, S. Saubern, J. Chiefari and S. Thang, "Continuous flow aminolysis of RAFT polymers using multistep processing and inline analysis," *Macromolecules,* vol. 47, no. 23, pp. 8203-8213, 2014. http://pubs.acs.org/doi/abs/10.1021/ma501628f

[186] L. Mleczko and D. Zhao, "Technology for Continuous Production of Fine Chemicals: A Case Study for Low Temperature Lithiation Reactions," *Managing Hazardous Reactions and Compounds in Process Chemistry,* pp. 403-440, 2014. http://pubs.acs.org/doi/abs/10.1021/bk-2014-1181.ch015

[185] B. Li and S. Guinness, "Development of Flow Processes for the Syntheses of N-Aryl Pyrazoles and Diethyl Cyclopropane-cis-1, 2-dicarboxylate," *Managing Hazardous Reactions and Compounds in Process Chemistry,* vol. 14, p. 383, 2014. http://pubs.acs.org/doi/abs/10.1021/bk-2014-1181.ch014

[184] J. Némethné-Sóvágó And M. Benke, "Microreactors: a new concept for chemical synthesis and technological feasibility," *Materials Science and Engineering,* vol. 39, no. 2, pp. 89-101, 2014. http://www.matarka.hu/koz/ISSN_2063-6792/vol_39-2_2014_eng/ISSN_2063-6792_vol_39_2_2014_eng_089-101.pdf

[183] A. Manvar and A. Shah, "Subtle Mitsunobu couplings under super-heating: the role of highthroughput continuous flow and microwave strategies," *Org. Biomol. Chem.,* vol. 12, no. 41, pp. 8112-24, 2014. http://pubs.rsc.org/-/content/articlehtml/2014/ob/c4ob01432d

[182] S. Mostarda, P. Filipponi, R. Sardella, F. Venturoni, B. Natalini, R. Pellicciari and A. Gioiello, "Glucuronidation of bile acids under flow conditions: design of experiments and KoenigsKnorr reaction optimization," *Org. Biomol. Chem.,* vol. 12, no. 47, pp. 9592-600, 2014.
http://pubs.rsc.org/-/content/articlehtml/2014/ob/c4ob01911c

[181] A. Xolin, A. Stévenin, M. Pucheault, S. Norsikian, F. Boyer and J. Beau, "Glycosylation with Nacetyl glycosamine donors using catalytic iron (III) triflate: from microwave batch chemistry to a scalable continuous-flow process," *Org. Chem. Front.,* 2014.
http://dx.doi.org/10.1039/c4qo00183d

[180] A. Caron, A. Hernandez-Perez and S. Collins, "Synthesis of a Carprofen Analogue Using a Continuous Flow UV-Reactor," *Organic Process Research & Development,* vol. 18, no. 11, pp. 1571-1574, 2014.
https://pubs.acs.org/doi/10.1021/op5002148

[179] T. Hamlin, G. Lazarus, C. Kelly and N. Leadbeater, "A Continuous-Flow Approach to 3, 3, 3Trifluoromethylpropenes: Bringing Together Grignard Addition, Peterson Elimination, Inline Extraction, and Solvent Switching," *Organic Process Research & Development,* vol. 18, no. 10, pp. 1253-1258, 2014.
http://pubs.acs.org/doi/abs/10.1021/op500190j

[178] P. Filipponi, C. Ostacolo, E. Novellino, R. Pellicciari and A. Gioiello, "Continuous Flow Synthesis of Thieno [2, 3-c] isoquinolin-5 (4 H)-one Scaffold: A Valuable Source of PARP-1 Inhibitors," *Organic Process Research & Development,* vol. 18, pp. 1345-1353, 2014.
http://pubs.acs.org/doi/abs/10.1021/op500074h

[177] K. Gilmore, S. Vukelić, D. McQuade, B. Koksch and P. Seeberger, "Continuous Reductions and Reductive Aminations Using Solid NaBH4," *Organic Process Research & Development,* vol. 18, no. 12, pp. 1771-1776, 2014.
http://pubs.acs.org/doi/abs/10.1021/op500310s

[176] F. Odille, A. Stenemyr and F. Pontén, "Development of a Grignard-Type Reaction for Manufacturing in a Continuous-Flow Reactor," *Organic Process Research & Development,* vol. 18, no. 11, p. 1545, 2014.
http://pubs.acs.org/doi/abs/10.1021/op500290x

[175] B. Tomaszewski, A. Schmid and K. Buehler, "Biocatalytic production of catechols using a high pressure tube-in-tube segmented flow microreactor," *Organic Process Research & Development,* vol. 18, no. 11, p. 1516–1526, 2014.
http://pubs.acs.org/doi/abs/10.1021/op5002148

[174] K. Tan), X. Hao, T. Hughes, O. Hutt, A. Polyzos, K. Turner and G. Moad, "Porous, functional, poly (styrene-co-divinylbenzene) monoliths by RAFT polymerization," *Polym. Chem.,* vol. 5, p. 722, 2014. http://pubs.rsc.org/-/content/articlehtml/2014/py/c3py01015e

[173] C. Hornung, A. Postma, S. Saubern and J. Chiefari, "Sequential flow process for the controlled polymerisation and thermolysis of RAFT-synthesised polymers," *Polymer,* vol. 55, no. 6, pp. 1427-1435, 2014. http://www.sciencedirect.com/science/article/pii/S003238611400038X

[172] D. Berckmans, "Precision livestock farming technologies for welfare management in intensive livestock systems," *Rev. Sci. Tech.,* vol. 33, no. 1, pp. 189-96, 2014. http://pubs.rsc.org/-/content/articlehtml/2014/gc/c3gc41797b

[171] M. Rubio-Martinez, M. Batten, A. Polyzos, K. Carey, J. Mardel, K. Lim and M. Hill, "Versatile, high quality and scalable continuous flow production of metal-organic frameworks," *Sci Rep,* p. 5443, 2014. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4069692/

[170] P. Cyr and A. Charette, "Continuous-Flow Hydroxylation of Aryl Iodides Promoted by Copper Tubing," *Synlett,* vol. 25, no. 10, pp. 1409-1412, 2014. https://www.researchgate.net/publication/263652285_ChemInform_Abstract_Continuous-Flow_Hydroxylation_of_Aryl_Iodides_Promoted_by_Copper_Tubing

[169] P. Zambelli, "Development of new biocatalytic processes for fructooligosaccharides (FOS) preparation," *Thesis,* 2014. https://air.unimi.it/handle/2434/244879

[168] B. Egle, "Design and Synthesis of Alpha-helix Minimalist Peptidomimetics," *Thesis,* 2014. https://lirias.kuleuven.be/handle/123456789/469093

[167] B. Ondrusek, "Selective additions to unsaturated carbon-carbon bonds by the use of Nheterocyclic carbene-copper (I) catalysts," *Thesis,* 2014. http://search.proquest.com/openview/e62cf30d119f76864cbb63f5b020b47b/1?pq-origsite= gscholar;cbl=18750;diss=y

[166] A. Sobolewska, "New Generic Synthetic Protocols for Pharmaceutical Intermediates Based on Continuous Flow Multifunctional Platforms," *Thesis,* 2014. http://opus.bath.ac.uk/50953/1/UnivBath_PhD_2014_A_Sobolewska.pdf

[165] D. Plaza, "Continuous flow processes for catalytic upgrading of biofeedstocks," *Thesis,* 2014.
http://wrap.warwick.ac.uk/66188

[164] A. Voros, "Szerves kémiai reakciók megvalósíthatóságának vizsgálata folyamatos reaktorokban," *Thesis,* 2014
https://repozitorium.omikk.bme.hu/bitstream/handle/10890/1369/ertekezes.pdf?sequence=1

[163] T. Jong, "Continuous flow synthesis of chemical building blocks for biological application," *Thesis,* 2014.
https://www.era.lib.ed.ac.uk/handle/1842/1793

[162] R. Ingham, "Control tools for flow chemistry processing and their application to the synthesis of bromodomain inhibitors," *Thesis,* 2014.
https://www.repository.cam.ac.uk/handle/1810/246534

2013

Year total: 44

[161] A. Longstreet and D. McQuade, "Organic reaction systems: using microcapsules and microreactors to perform chemical synthesis," *Acc. Chem. Res.,* vol. 46, no. 2, pp. 327-38, 2013.
http://pubs.acs.org/doi/abs/10.1021/ar300144x

[160] W. Czechtizky, J. Dedio, B. Desai, K. Dixon, E. Farrant, Q. Feng, T. Morgan, D. Parry, M. Ramjee, C. Selway, T. Schmidt, G. Tarver and A. Wright, "Integrated Synthesis and Testing of Substituted Xanthine Based DPP4 Inhibitors: Application to Drug Discovery," *ACS Med Chem Lett,* vol. 4, no. 8, pp. 768-72, 2013.
http://pubs.acs.org/doi/abs/10.1021/ml400171b

[159] A. Chen, X. Li, Y. Zhou, L. Huang, Z. Fang, H. Gan and K. Guo, "Continuous Flow Synthesis of Coumarin," *Advanced Materials Research,* vol. 7, pp. 936-941, 2013.
https://www.scientific.net/AMR.781-784.936

[158] M. York and A. Edenharter, "A two-stage continuous-flow synthesis of spirooxazine photochromic dyes," *Australian Journal of Chemistry,* vol. 66, no. 2, pp. 172-177, 2013.
http://www.publish.csiro.au/CH/CH12435

[157] J. Eschelbach, D. Wernick, M. Bryan and E. Doherty, "Characterization of dispersion effects on reaction optimization and scale-up for a packed bed flow hydrogenation reactor," *Australian Journal of Chemistry,* vol. 66, no. 2, pp. 165-171, 2013. http://www.publish.csiro.au/CH/CH12450

[156] Y. Nakano, G. Savage, S. Saubern, P. Scammells and A. Polyzos, "A Multi-Step Continuous Flow Process for the N-Demethylation of Alkaloids," *Australian Journal of Chemistry,* vol. 66, no. 2, pp. 178-182, 2013. http://www.publish.csiro.au/ch/CH12463

[155] C. Hornung, X. Nguyen, S. Kyi, J. Chiefari and S. Saubern, "Synthesis of RAFT block copolymers in a multi-stage continuous flow process inside a tubular reactor," *Australian Journal of Chemistry,* vol. 66, pp. 192-198, 2013. http://www.publish.csiro.au/ch/CH12479

[154] F. Bou-Hamdan, K. Krüger, K. Tauer, D. McQuade and P. Seeberger, "Visible Light-Initiated Preparation of Functionalized Polystyrene Monoliths for Flow Chemistry," *Australian Journal of Chemistry,* vol. 66, no. 2, p. 213, 2013. http://www.publish.csiro.au/CH/CH12405

[153] H. Seyler, S. Haid, T. Kwon, D. Jones, P. Bäuerle, A. Holmes and W. Wong, "Continuous flow synthesis of organic electronic materials–Case studies in methodology translation and scaleup," *Australian Journal of Chemistry,* vol. 66, no. 2, pp. 151-156, 2013. http://www.publish.csiro.au/ch/CH12406

[152] N. Ambreen, R. Kumar and T. Wirth, "Hypervalent iodine/TEMPO-mediated oxidation in flow systems: a fast and efficient protocol for alcohol oxidation," *Beilstein J Org Chem,* vol. 9, pp. 1437-42, 2013. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3740682/

[151] A. Longstreet, S. Opalka, B. Campbell, B. Gupton and D. McQuade, "Investigating the continuous synthesis of a nicotinonitrile precursor to nevirapine," *Beilstein J Org Chem,* vol. 9, pp. 2570-8, 2013. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3869350/

[150] T. Hamlin and N. Leadbeater, "Raman spectroscopy as a tool for monitoring mesoscale continuous-flow organic synthesis: Equipment interface and assessment in four medicinally relevant reactions," *Beilstein J Org Chem,* vol. 9, pp. 1843-52, 2013. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3778413/

[149] M. Baumann and I. Baxendale, "The rapid generation of isothiocyanates in flow," *Beilstein J Org Chem,* vol. 9, pp. 1613-9, 2013. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3778409/

[148] K. Roper, M. Berry and S. Ley, "The application of a monolithic triphenylphosphine reagent for conducting Ramirez gem-dibromoolefination reactions in flow," *Beilstein J Org Chem,* vol. 9, pp. 1781-90, 2013. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3778394/

[147] H. Seyler, J. Subbiah, D. Jones, A. Holmes and W. Wong, "Controlled synthesis of poly(3hexylthiophene) in continuous flow," *Beilstein J Org Chem,* vol. 9, pp. 1492-500, 2013. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3740766/

[146] D. Browne, B. Harji and S. Ley, "Continuous Cold without Cryogenic Consumables: Development of a Convenient Laboratory Tool for Low-Temperature Flow Processes," *Chemical Engineering & Technology,* 2013. http://onlinelibrary.wiley.com/doi/10.1002/ceat.201200581/full

[145] D. McQuade, A. O'Brien, M. Dörr, R. Rajaratnam, U. Eisold, B. Monnanda, T. Nobuta, H. Löhmannsröben, E. Meggers and P. Seeberger, "Continuous synthesis of pyridocarbazoles and initial photophysical and bioprobe characterization," *Chemical Science,* pp. 4067-4070, 2013. http://pubs.rsc.org/-/content/articlehtml/2013/sc/c3sc51846a

[144] F. Wojcik, A. O'Brien, S. Götze, P. Seeberger and L. Hartmann, "Synthesis of carbohydratefunctionalised sequence-defined oligo(amidoamine)s by photochemical thiol-ene coupling in a continuous flow reactor," *Chemistry,* pp. 3090-8, 2013. http://onlinelibrary.wiley.com/doi/10.1002/chem.201203927/full

[143] V. Hessel, D. Kralisch, N. Kockmann, T. Noël and Q. Wang, "Novel process windows for enabling, accelerating, and uplifting flow chemistry," *ChemSusChem,* vol. 6, no. 5, pp. 74689, 2013. http://onlinelibrary.wiley.com/doi/10.1002/cssc.201200766/full

[142] P. Liu, Y. Zhang and S. Martin, "Complex refractive indices of thin films of secondary organic materials by spectroscopic ellipsometry from 220 to 1200 nm," *Environ. Sci. Technol.,* vol. 47, no. 23, pp. 13594-601, 2013. http://pubs.rsc.org/-/content/articlehtml/2013/ra/c3ra00125c

[141] D. Rudzinski and N. Leadbeater, "Microwave heating and conventionally-heated continuousflow processing as tools for performing cleaner palladium-catalyzed decarboxylative couplings using oxygen as the oxidant – a proof of principle study," *Green Processing and Synthesis,* 2013. https://www.degruyter.com/view/j/gps.2013.2.issue-4/gps-2013-0043/gps-2013-0043.xml?f orma=;print

[140] B. Desai, K. Dixon, E. Farrant, Q. Feng, K. Gibson, W. van Hoorn, J. Mills, T. Morgan, D. Parry, M. Ramjee, C. Selway, G. Tarver, G. Whitlock and A. Wright, "Rapid discovery of a novel series of Abl kinase inhibitors by application of an integrated microfluidic synthesis and screening platform," *J. Med. Chem.,* vol. 56, no. 7, pp. 3033-47, 2013. http://pubs.acs.org/doi/abs/10.1021/jm400099d

[139] Z. Assaf, A. Larsen, R. Venskutonytė, L. Han, B. Abrahamsen, B. Nielsen, M. Gajhede, J. Kastrup, A. Jensen, D. Pickering, K. Frydenvang, T. Gefflaut and L. Bunch, "Chemoenzymatic synthesis of new 2,4-syn-functionalized (S)-glutamate analogues and structure-activity relationship studies at ionotropic glutamate receptors and excitatory amino acid transporters," *J. Med. Chem.,* vol. 56, no. 4, pp. 1614-28, 2013. https://air.unimi.it/handle/2434/232268

[138] D. McQuade and P. Seeberger, "Applying flow chemistry: methods, materials, and multistep synthesis," *J. Org. Chem.,* vol. 78, no. 13, pp. 6384-9, 2013. https://pubs.acs.org/doi/full/10.1021/jo400583m?src=recsys

[137] B. Bakonyi, M. Furegati, C. Kramer, L. La Vecchia and F. Ossola, "Synthesis of all four stereoisomers of 3-(tert-butoxycarbonyl)-3-azabicyclo[3.1.0]hexane-2-carboxylic acid," *J. Org. Chem.,* vol. 78, no. 18, pp. 9328-39, 2013. http://pubs.acs.org/doi/abs/10.1021/jo4013282

[136] B. Egle, J. Muñoz, N. Alonso, W. De Borggraeve, A. Hoz, A. Díaz-Ortiz and J. Alcázar, "First example of alkyl–aryl Negishi cross-coupling in flow: mild, efficient and clean introduction of functionalized alkyl groups," *Journal of Flow Chemistry,* vol. 4, no. 1, 2013. http://akademiai.com/doi/abs/10.1556/JFC-D-13-00009

[135] M. Hopkin, I. Baxendale and S. Ley, "An expeditious synthesis of imatinib and analogues utilising flow chemistry methods," *Org. Biomol. Chem.,* vol. 11, no. 11, pp. 1822-39, 2013. http://pubs.rsc.org/-/content/articlehtml/2013/ob/c2ob27002a

[134] S. Opalka, J. Park, A. Longstreet and D. McQuade, "Continuous synthesis and use of Nheterocyclic carbene copper(I) complexes from insoluble Cu2O," *Org. Lett.,* vol. 15, no. 5, pp. 996-9, 2013. http://pubs.acs.org/doi/abs/10.1021/ol303442m

[133] J. Lehmann, T. Alzieu, R. Martin and R. Britton, "The Kondrat'eva reaction in flow: direct access to annulated pyridines," *Org. Lett.,* vol. 15, no. 14, pp. 3550-3, 2013. http://pubs.acs.org/doi/abs/10.1021/ol4013525

[132] R. Harris, B. Andrews, S. Clark, J. Cooke, J. Gray and S. Ng, "The Fit For Purpose Development of S1P1 Receptor Agonist GSK2263167 Using a Robinson Annulation and Saegusa Oxidation to Access an Advanced Phenol Intermediate," *Org. Process Res. Dev,* vol. 17, no. 10, p. 1239, 2013. http://pubs.acs.org/doi/abs/10.1021/op400162p

[131] L. Protasova, M. Bulut, D. Ormerod, A. Buekenhoudt, J. Berton and C. Stevens, "Latest highlights in liquid-phase reactions for organic synthesis in microreactors," *Organic Process Research & Development,* vol. 17, no. 9, pp. 760-791, 2013. http://pubs.acs.org/doi/abs/10.1021/op4000169

[130] P. Murray, D. Browne, J. Pastre, C. Butters, D. Guthrie and S. Ley, "Continuous flow processing of organometallic reagents using an advanced peristaltic pumping system and the telescoped flow synthesis of (E/Z)-Tamoxifen," *Organic Process Research & Development,* vol. 17, no. 9, p. 1192, 2013. http://pubs.acs.org/doi/abs/10.1021/op4001548

[129] C. Battilocchio, G. Iannucci, S. Wang, E. Godineau, A. Krieger, A. De Mesmaeker and S. Ley, "Flow synthesis of cyclobutanones via [2+ 2] cycloaddition of keteneiminium salts and ethylene gas," *React. Chem. Eng.,* p. 295, 2013. http://pubs.rsc.org/-/content/articlehtml/2017/re/c7re00020k

[128] P. Watts and C. Wiles, "Application of Microreactor Methodology for Organic Synthesis," *Stereoselective Synthesis of Drugs and Natural Products,* 2013. http://onlinelibrary.wiley.com/doi/10.1002/9781118596784.ssd006/full

[127] B. Ondrusek, S. Opalka, O. Hietsoi, M. Shatruk and D. McQuade, "Structure and Reactivity of a Copper (I)-Fused N-Heterocyclic Carbene Complex: Reactivity toward Styrenic and Strained Alkenes," *Synlett,* vol. 24, no. 10, p. 1211, 2013. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0033-1338837

[126] K. Nakayama, D. Browne, I. Baxendale and S. Ley, "Studies of a diastereoselective electrophilic fluorination reaction employing a cryo-flow reactor," *Synlett,* vol. 24, no. 10, pp. 1298-1302, 2013. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0033-1338455

[125] H. Bartrum, D. Blakemore, C. Moody and C. Hayes, "Continuous-flow generation of diazoesters and their direct use in S–H and P–H insertion reactions: synthesis of α-sulfanyl, α-sulfonyl, and α-phosphono carboxylates," *Tetrahedron,* vol. 69, no. 10, p. 2276, http://www.sciencedirect.com/science/article/pii/S0040402013000616

[124] M. Pedersen, "Design of Continuous Reactor Systems for API Production," *Thesis.* http://orbit.dtu.dk/services/downloadRegister/105170231/Michael_J_nch_Pedersen_978_8 7_93054_53_0_fil_fra_trykkeri.pdf

[123] A. Cannillo, "Association de la condensation de Petasis à des réactions de cyclisation pour la synthèse de molécules d'intérêt biologique," *Thesis,* 2013. http://www.theses.fr/2013PA112263

[122] M. Viviano, "Design, synthesis and biological evaluation of new non-nucleosidic inhibitors od DNA methyltransferases," *Thesis,* 2013. http://elea.unisa.it/handle/10556/1155

[121] D. Rudzinski, "Preparation of Organofluorine Compounds: Exploring Mono-, Di-, and Trifluorination," *Thesis,* 2013. http://digitalcommons.uconn.edu/gs_theses/380/

[120] J. Newby, "Synthesis and reactions of isocyanides using a flow reactor," *Thesis,* 2013 http://etheses.whiterose.ac.uk/id/eprint/4127

[119] W. Reynolds, "Sequential Processes Involving Catalytic CH Functionalisation," *Thesis,* 2013. http://opus.bath.ac.uk/44081/

[118] K. Watts, "Design and Fabrication of an Electrochemical Microreactor and its Use in Electroorganic Synthesis," *Thesis,* 2013. http://orca.cf.ac.uk/58306/1/Watts%20K%20Final%20Thesis%202013.pdf

2012

Year total: 38

[117] S. Newton, S. Ley, S. Ley and D. Grainger, "Asymmetric Homogeneous Hydrogenation in Flow using a Tube-in-Tube Reactor," *Advanced Synthesis & Catalysis,* vol. 354, p. 1805, http://onlinelibrary.wiley.com/doi/10.1002/adsc.201200073/full

[116] A. Diaz-Ortiz, "Cross-Coupling in Flow using Supported Catalysts: Mild, Clean, Efficient and Sustainable Suzuki–Miyaura Coupling in a Single Pass," *Advanced Synthesis & Catalysis,* vol. 354, p. 3456, 2012. http://onlinelibrary.wiley.com/doi/10.1002/adsc.201200678/full

[115] J. Wegner, S. Ceylan and A. Kirschning, "Flow chemistry–a key enabling technology for (multistep) organic synthesis," *Advanced Synthesis & Catalysis,* vol. 354, pp. 17-57, 2012. http://onlinelibrary.wiley.com/doi/10.1002/adsc.201100584/full

[114] F. Lévesque and P. Seeberger, "Continuous-flow synthesis of the anti-malaria drug artemisinin," *Angew. Chem. Int. Ed. Engl.,* vol. 51, no. 7, pp. 1706-9, 2012. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201107446

[113] A. O'Brien, Z. Horváth, F. Lévesque, J. Lee, A. Seidel-Morgenstern and P. Seeberger, "Continuous synthesis and purification by direct coupling of a flow reactor with simulated moving-bed chromatography," *Angew. Chem. Int. Ed. Engl.,* vol. 51, pp. 7028-30, 2012. http://onlinelibrary.wiley.com/doi/10.1002/anie.201202795/full

[112] F. Levesque and P. Seeberger, "Kontinuierliche Synthese des Malariawirkstoffs Artemisinin," *Angewandte Chemie,* vol. 124, no. 7, p. 1738, 2012. http://onlinelibrary.wiley.com/doi/10.1002/anie.201107446/full

[111] A. O'Brien, Z. Horváth, F. Lévesque, J. Lee, A. Seidel-Morgenstern and P. Seeberger, "Kontinuierliche Synthese und Aufreinigung durch direkte Kopplung eines Durchflussreaktors mit “Simulated-Moving-Bed”- Chromatographie," *Angewandte Chemie,* vol. 124, no. 28, pp. 7134-7137, 2012. http://onlinelibrary.wiley.com/doi/10.1002/ange.201202795/full

[110] R. Pasceri, H. Bartrum, C. Hayes and C. Moody, "Nucleophilic fluorination of β-ketoester derivatives with HBF4," *Chem. Commun. (Camb.),* pp. 12077-9, 2012. https://pdfs.semanticscholar.org/7a2f/a567c880671d4da10b2e040a6ced8adbb5c8.pdf

[109] L. Despènes, S. Elgue, C. Gourdon and M. Cabassud, "Impact of the material on the thermal behaviour of heat exchangers-reactors," *Chemical Engineering and Processing: Process Intensification,* pp. 102-111, 2012. http://www.sciencedirect.com/science/article/pii/S0255270111002418

[108] H. Seyler, D. Jones, A. Holmes and W. Wong, "Continuous flow synthesis of conjugated polymers," *Chemical Communications,* vol. 48, no. 10, pp. 1598-1600, 2012. http://pubs.rsc.org/en/content/articlehtml/2012/cc/c1cc14315h

[107] T. Petersen, A. Polyzos, M. O'Brien, T. Ulven, I. Baxendale and S. Ley, "The oxygen-mediated synthesis of 1,3-butadiynes in continuous flow: using Teflon AF-2400 to effect gas/liquid contact," *ChemSusChem,* pp. 274-7, 2012. http://onlinelibrary.wiley.com/doi/10.1002/cssc.201100339/full

[106] R. Martin, F. Morawitz, C. Kuratli, A. Alker and A. Alanine, "Synthesis of Annulated Pyridines by Intramolecular Inverse-Electron-Demand Hetero-Diels–Alder Reaction under Superheated Continuous Flow Conditions," *Eur. J. Org. Chem.,* pp. 47-52, 2012. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201101538/full

[105] J. Muñoz, J. Alcázar, A. Hoz and A. Díaz-Ortiz, "Application of Flow Chemistry to the Selective Reduction of Esters to Aldehydes," *European Journal of Organic Chemistry,* pp. 260-263, 2012. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201101458/full

[104] N. Prosa, R. Turgis, R. Piccardi and M. Scherrmann, "Soluble Polymer-Supported Flow Synthesis: A Green Process for the Preparation of Heterocycles," *European Journal of Organic Chemistry,* p. 2188, 2012. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201101726/full

[103] J. Muñoz, J. Alcázar, A. Hoz, Á. Díaz-Ortiz and S. de Diego, "Preparation of amides mediated by isopropylmagnesium chloride under continuous flow conditions," *Green Chemistry,* pp. 1335-1341, 2012. http://pubs.rsc.org/en/content/articlehtml/2012/gc/c2gc35037h

[102] M. Mercadante and N. Leadbeater, "Development of methodologies for reactions involving gases as reagents: microwave heating and conventionally-heated continuous-flow processing as examples," *Green Processing and Synthesis,* 2012. https://www.degruyter.com/view/j/gps.2012.1.issue-6/gps-2011-0016/gps-2011-0016.xml?forma=

[101] P. Baraldi and V. Hessel, "Micro reactor and flow chemistry for industrial applications in drug discovery and development," *Green Processing and Synthesis,* 2012. https://www.degruyter.com/view/j/gps.2012.1.issue-2/gps-2012-0008/gps-2012-0008.xml

[100] M. Moreno, M. Gomez, C. Cebrian, P. Prieto, A. Hoz and A. Moreno, "Sustainable and efficient methodology for CLA synthesis and identification," *Green Chimestry,* vol. 24, no. 9, pp. 2584-2594, 2012. http://pubs.rsc.org/en/content/articlehtml/2012/gc/c2gc35792e

[99] L. Malet-Sanz and F. Susanne, "Continuous flow synthesis. A pharma perspective," *J. Med. Chem.,* vol. 55, no. 9, pp. 4062-98, 2012. http://pubs.acs.org/doi/abs/10.1021/jm2006029

[98] P. Watts and C. Wiles, "Micro reactors, flow reactors and continuous flow synthesis," *Journal of Chemical Research,* vol. 36, no. 4, pp. 181-193, 2012. http://www.ingentaconnect.com/content/stl/jcr/2012/00000036/00000004/art00001

[97] C. Lee, E. Pedrick and N. Leadbeater, "Preparation of Arene Chromium Tricarbonyl Complexes Using Continuous-Flow Processing: (η6-C6H5CH3) Cr (CO) 3 as an Example," *Journal of Flow Chemistry,* vol. 2, no. 4, 2012. http://akademiai.com/doi/abs/10.1556/JFC-D-12-00018

[96] D. Zani and M. Colombo, "Phase-transfer catalysis under continuous flow conditions: an alternative approach to the biphasic liquid/liquid O-alkylation of phenols," *Journal of Flow Chemistry,* vol. 2, no. 1, 2012. http://akademiai.com/doi/abs/10.1556/jfchem.2012.00020

[95] T. Glasnov, "Highlights from the Flow Chemistry Literature 2012 (Part 2)," *Journal of Flow Chemistry,* vol. 2, no. 3, 2012. http://akademiai.com/doi/abs/10.1556/JFC-D-12-00017

[94] L. Tamborini, DiegoRomano, A. Pinto, AriannaBertolani, FrancescoMolinari and PaolaConti, "An efficient method for the lipase-catalysed resolution and in-line purification of racemic flurbiprofen in a continuous-flow reactor," *Journal of Molecular Catalysis B: Enzymatic,* vol. 84, pp. 78-82, 2012. http://www.sciencedirect.com/science/article/pii/S1381117712000046

[93] C. Hornung, A. Postma, A. Postma and J. Chiefair, "A continuous flow process for the radical induced end group removal of RAFT polymers," *Macromolecular Reaction Engineering,* vol. 6, no. 6, p. 346, 2012. http://onlinelibrary.wiley.com/doi/10.1002/mren.201200007/full

[92] C. Hornung, X. Nguyen, G. Dumsday and S. Sauber, "Integrated continuous processing and flow characterization of RAFT polymerization in tubular flow reactors," *Macromolecular Reaction Engineering,* vol. 6, no. 11, pp. 458-466, 2012. http://onlinelibrary.wiley.com/doi/10.1002/mren.201200029/full

[91] F. Venturoni, A. Gioiello, R. Sardella, B. Natalini and R. Pellicciari, "Continuous flow synthesis and scale-up of glycine- and taurine-conjugated bile salts," *Org. Biomol. Chem.,* vol. 10, no. 20, pp. 4109-15, 2012. http://pubs.rsc.org/en/content/articlehtml/2012/ob/c2ob25528f

[90] O. Hawkins, P. Dubé, M. Maloney, L. Wei, M. Ewing, S. Chesnut, J. Denette, B. Lillie and R. Vaidyanathan, "Synthesis of an H3 Antagonist via Sequential One-Pot Additions of a Magnesium Ate Complex and an Amine to a 1,4-Ketoester followed by Carbonyl-Directed Fluoride Addition," *Org. Process Res. Dev.,* vol. 16, no. 8, p. 1393, 2012. http://pubs.acs.org/doi/abs/10.1021/op300093j

[89] N. Anderson, "Using continuous processes to increase production," *Organic Process Research & Development,* p. 852–869, 2012. http://pubs.acs.org/doi/abs/10.1021/op200347k

[88] M. Mercadante, C. Kelly, C. Lee and N. Leadbeater, "Continuous flow hydrogenation using an on-demand gas delivery reactor," *Organic Process Research & Development,*vol. 16, no. 5, pp. 1064-1068, 2012. http://pubs.acs.org/doi/abs/10.1021/op300019w

[87] T. Gustafsson, H. Sörensen and F. Pontén, "Development of a continuous flow scale-up approach of reflux inhibitor AZD6906," *Organic Process Research & Development,* vol. 16, no. 5, pp. 925-929, 2012. http://pubs.acs.org/doi/abs/10.1021/op200340c

[86] D. Browne, S. Wright, B. Deadman, S. Dunnage, I. Baxendale, R. Turner and S. Ley, "Continuous flow reaction monitoring using an on-line miniature mass spectrometer," *Rapid Commun. Mass Spectrom.,* vol. 26, no. 17, pp. 1999-2010, 2012. http://onlinelibrary.wiley.com/doi/10.1002/rcm.6312/full

[85] C. Spiteri and J. Moses, "Continuous Flow Synthesis of Secondary Amides by Tandem Azidation–Amidation of Anilines," *Synlett,* vol. 23, no. 10, pp. 1546-1548, 2012. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0031- 1291013

[84] C. Battilocchio, M. Baumann, I. Baxendale, M. Biava, M. Kitching, S. Ley, R. Martin, S. Ohnmacht and N. Tappin, "Scale-Up of flow-assisted synthesis of C2-symmetric chiral PyBox ligands," *Synthesis,* p. 635, 2012. https://www.thieme- connect.com/products/ejournals/html/10.1055/s-0031-1289676

[83] V. Ranade, "MAGIC (Modular, Agile, Intensified and Continuous) Processes and Plants for Specialty Chemicals," *Thesis,* 2012. http://catsusen.ncl.res.in/DownloadableDocuments/article_1.pdf

[82] S. Cabrera Navarrete and D. Troya Velasco, "Diseño de las líneas de vapor para el calentamiento de los tanques de almacenamiento de combustible de la central térmica Miraflores," *Thesis,* 2012.
http://dspace.ups.edu.ec:8080/handle/123456789/3681

[81] E. Rossi, "Micro/Meso-Structured Reactors for Chemical Synthesis: Applications in Materials Science and Medicinal Chemistry," *Thesis,* 2012.
http://paduaresearch.cab.unipd.it/4990/

[80] V. Fusillo, "New insights into scale up processing and CS bond formation reactions," *Thesis,* 2012.
http://orca.cf.ac.uk/id/eprint/28635

2011

Year total: 40

[79] M. Baumann, I. Baxendale, C. Kuratli, S. Ley, R. Martin and J. Schneider, "Synthesis of a druglike focused library of trisubstituted pyrrolidines using integrated flow chemistry and batch methods," *ACS Comb Sci,* vol. 13, no. 4, pp. 405-13, 2011.
http://pubs.acs.org/doi/abs/10.1021/co2000357

[78] A. Sniady, M. Bedore and T. Jamison, "One-flow, multistep synthesis of nucleosides by Brønsted acid-catalyzed glycosylation," *Angew. Chem. Int. Ed. Engl.,* vol. 50, no. 9, pp. 21558, 2011.
http://onlinelibrary.wiley.com/doi/10.1002/ange.201006440/full

[77] A. Polyzos, M. O'Brien, T. Petersen, I. Baxendale and S. Ley, "The continuous-flow synthesis of carboxylic acids using CO2 in a tube-in-tube gas permeable membrane reactor," *Angew. Chem. Int. Ed. Engl.,* vol. 50, no. 5, pp. 1190-3, 2011.
http://onlinelibrary.wiley.com/doi/10.1002/anie.201006618/full

[76] M. Brasholz, S. Saubern and G. Savage, "Nitrile Oxide 1, 3-Dipolar Cycloaddition by Dehydration of Nitromethane Derivatives Under Continuous Flow Conditions," *Australian Journal of Chemistry,* vol. 64, p. 1397, 2011.
http://www.publish.csiro.au/CH/CH11079

[75] S. Opalka, A. Longstreet and D. McQuade, "Continuous proline catalysis via leaching of solid proline," *Beilstein J Org Chem,* no. 7, pp. 1671-9, 2011.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3252872/

[74] K. Roper, H. Lange, A. Polyzos, M. Berry, I. Baxendale and S. Ley, "The application of a monolithic triphenylphosphine reagent for conducting Appel reactions in flow microreactors," *Beilstein J Org Chem,* vol. 7, pp. 1648-55, 2011. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3252869/

[73] F. Bou-Hamdan, F. Lévesque, A. O'Brien and P. Seeberger, "Continuous flow photolysis of aryl azides: Preparation of 3H-azepinones," *Beilstein J Org Chem,* vol. 7, pp. 1124-1129, 2011. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3167900/

[72] P. Lange, L. Goossen, P. Podmore, T. Underwood and N. Sciammetta, "Decarboxylative biaryl synthesis in a continuous flow reactor," *Chem. Commun. (Camb.),* vol. 47, no. 12, pp. 362830, 2011. http://pubs.rsc.org/en/content/articlehtml/2011/cc/c0cc05708h

[71] A. O'Brien, F. Lévesque and P. Seeberger, "Continuous flow thermolysis of azidoacrylates for the synthesis of heterocycles and pharmaceutical intermediates," *Chem. Commun. (Camb.),* vol. 47, no. 9, pp. 2688-90, 2011. http://pubs.rsc.org/is/content/articlehtml/2011/cc/c0cc04481d

[70] C. Wiles and P. Watts, "Recent advances in micro reaction technology," *Chemical Communications,* pp. 6512-6535, 2011. http://pubs.rsc.org/en/content/articlehtml/2011/cc/c1cc00089f

[69] H. Lange, C. Carter, M. Hopkin, A. Burke, J. Goode, I. Baxendale and S. Ley, "A breakthrough method for the accurate addition of reagents in multi-step segmented flow processing," *Chemical Science,* pp. 765-769, 2011. http://pubs.rsc.org/-/content/articlehtml/2011/sc/c0sc00603c

[68] T. Noel and S. Buchwald, "Cross-coupling in flow," *Chemical Society Reviews,* vol. 40, 2011. http://pubs.rsc.org/en/content/articlehtml/2011/cs/c1cs15075h

[67] M. Mohamed, T. Gonçalves, R. Whitby, H. Sneddon and D. Harrowven, "New insights into cyclobutenone rearrangements: a total synthesis of the natural ROS-generating anti-cancer agent cribrostatin 6," *Chemistry,* vol. 17, pp. 13698-705, 2011. http://onlinelibrary.wiley.com/doi/10.1002/chem.201102263/full

[66] T. Glasnov and C. Kappe, "The microwave-to-flow paradigm: translating high-temperature batch microwave chemistry to scalable continuous-flow processes," *Chemistry,* vol.17, pp. 11956-68, 2011. http://onlinelibrary.wiley.com/doi/10.1002/chem.201102065/full

[65] E. Riva, A. Rencurosi, S. Gagliardi, D. Passarella and M. Martinelli, "Synthesis of (+)dumetorine and congeners by using flow chemistry technologies," *Chemistry,* vol. 17, pp. 6221-6, 2011. http://onlinelibrary.wiley.com/doi/10.1002/chem.201100300/full

[64] C. Carter, H. Lange, D. Sakai, I. Baxendale and S. Ley, "Diastereoselective chain-elongation reactions using microreactors for applications in complex molecule assembly," *Chemistry,* vol. 17, pp. 3398-405, 2011. http://onlinelibrary.wiley.com/doi/10.1002/chem.201003148/full

[63] H. Bartrum, D. Blakemore, C. Moody and C. Hayes, "Rapid access to α-alkoxy and α-amino acid derivatives through safe continuous-flow generation of diazoesters," *Chemistry,* vol. 17, pp. 9586-9, 2011. http://onlinelibrary.wiley.com/doi/10.1002/chem.201101590/full

[62] M. Brasholz, K. von Känel, C. Hornung, S. Sauberna and J. Tsanaktsidis, "Highly efficient dehydration of carbohydrates to 5-(chloromethyl)furfural (CMF), 5-(hydroxymethyl)furfural (HMF) and levulinic acid by biphasic continuous flow processing," *Green Chemistry,* p. 1114, 2011. http://pubs.rsc.org/en/content/articlehtml/2011/gc/c1gc15107j

[61] M. Baumann, I. Baxendale and A. Kirschning, "Synthesis of highly substituted nitropyrrolidines, nitropyrrolizines and nitropyrroles via multicomponent-multistep sequences within a flow reactor," *HETEROCYCLES,* vol. 82, no. 2, pp. 1297 - 1316, 2011. http://community.dur.ac.uk/i.r.baxendale/papers/Heterocy2010.82.1297.pdf

[60] H. Seyler, W. Wong, D. Jones and A. Holmes, "Continuous flow synthesis of fullerene derivatives," *J. Org. Chem.,* vol. 76, no. 9, pp. 3551-6, 2011. http://pubs.acs.org/doi/abs/10.1021/jo2001879

[59] R. Luisi, B. Musio and L. Degennaro, "Microreactor Technology As Tool For The Development Of A Sustainable Synthetic Chemistry," *LA Chimica & Industria,* pp. 114-123, 2011. http://www.soc.chim.it/sites/default/files/chimind/pdf/2011_3_114_ca.pdf

[58] Y. Wada, T. Douke, T. Yamauchi and +Yuji, "Microwave effects in metal-catalyzed reactions," *Mini-Reviews in Organic Chemistry,* vol. 8, no. 3, p. 334, 2011. http://www.ingentaconnect.com/content/ben/mroc/2011/00000008/00000003/art00015

[57] M. Baumann, I. Baxendale and S. Ley, "The flow synthesis of heterocycles for natural product and medicinal chemistry applications," *Mol. Divers.,* vol. 15, no. 3, pp. 613-30, 2011.
http://www.springerlink.com/index/NJ056V4T1263U361.pdf

[56] M. Mercadante and N. Leadbeater, "Continuous-flow, palladium-catalysed alkoxycarbonylation reactions using a prototype reactor in which it is possible to load gas and heat simultaneously," *Org. Biomol. Chem.,* vol. 9, no. 19, pp. 6575-8, 2011.
http://pubs.rsc.org/en/content/articlehtml/2011/ob/c1ob05808h

[55] B. Ahmed-Omer and A. Sanderson, "Preparation of fluoxetine by multiple flow processing steps," *Org. Biomol. Chem.,* vol. 9, no. 10, pp. 3854-62, 2011.
http://pubs.rsc.org/en/content/articlehtml/2011/ob/c0ob00906g

[54] C. Smith, C. Smith, N. Nikbin, S. Ley and I. Baxendale, "Flow synthesis of organic azides and the multistep synthesis of imines and amines using a new monolithic triphenylphosphine reagent," *Org. Biomol. Chem.,* vol. 9, no. 6, 2011.
http://pubs.rsc.org/en/content/articlehtml/2011/ob/c0ob00813c

[53] P. Koos, U. Gross, A. Polyzos, M. O'Brien, I. Baxendale and S. Ley, "Teflon AF-2400 mediated gas-liquid contact in continuous flow methoxycarbonylations and in-line FTIR measurement of CO concentration," *Org. Biomol. Chem.,* vol. 9, no. 20, pp. 6903-8, 2011.
http://pubs.rsc.org/en/content/articlehtml/2011/ob/c1ob06017a

[52] L. Martin, A. Marzinzik, S. Ley and I. Baxendale, "Safe and reliable synthesis of diazoketones and quinoxalines in a continuous flow reactor," *Org. Lett.,* vol. 13, no. 2, pp. 320-3, 2011.
http://pubs.acs.org/doi/abs/10.1021/ol1027927

[51] Y. Zhang, T. Jamison, S. Patel and N. Mainolfi, "Continuous flow coupling and decarboxylation reactions promoted by copper tubing," *Org. Lett.,* vol. 13, no. 2, pp. 280-3, 2011.
http://pubs.acs.org/doi/abs/10.1021/ol1026848

[50] C. Hornung, C. Guerrero-Sanchez, M. Brasholz, S. Saubern, J. Chiefari, G. Moad, E. Rizzardo and S. Thang, "Controlled RAFT polymerization in a continuous flow microreactor," *Organic Process Research & Development,* vol. 15, no. 3, pp. 593-601, 2011.
http://pubs.acs.org/doi/abs/10.1021/op1003314

[49] R. Wheeler, E. Baxter, I. Campbell and S. Macdonald, "A General, One-Step Synthesis of Substituted Indazoles using a Flow Reactor," *Organic Process Research & Development,* vol. 15, no. 3, pp. 565-569, 2011. http://pubs.acs.org/doi/abs/10.1021/op100288t

[48] M. Roydhouse, A. Ghaini, A. Constantinou, A. Cantu-Perez, W. Motherwell and A. Gavriilidis, "Ozonolysis in flow using capillary reactors," *Organic Process Research & Development,* vol. 15, no. 5, p. 989, 2011. http://pubs.acs.org/doi/abs/10.1021/op200036d

[47] T. Brodmann, P. Koos, A. Metzger, P. Knochel and S. Ley, "Continuous preparation of arylmagnesium reagents in flow with inline IR monitoring," *Organic Process Research & Development,* vol. 16, no. 5, p. 1102–1113, 2011. http://pubs.acs.org/doi/abs/10.1021/op200275d

[46] C. Brocklehurst, H. Lehmann and L. Vecchia, "Nitration chemistry in continuous flow using fuming nitric acid in a commercially available flow reactor," *Organic Process Research & Development,* vol. 15, no. 6, p. 1447, 2011. http://pubs.acs.org/doi/abs/10.1021/op200055r

[45] M. Baumann, I. Baxendale, M. Brasholz, J. Hayward, S. Ley and N. Nikbin, "An integrated flow and batch-based approach for the synthesis of O-methyl siphonazole," *Synlett,* pp. 1375-1380, 2011. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0030-1260573

[44] H. Lange, M. Capener, A. Jones, C. Smith, N. Nikbin, I. Baxendale and S. Ley, "Oxidation reactions in segmented and continuous flow chemical processing using an N-(tert-Butyl) phenylsulfinimidoyl chloride monolith," *Synlett,* pp. 869-873, 2011. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0030- 1259923

[43] M. York, "A continuous-flow synthesis of annulated and polysubstituted furans from the reaction of ketones and α-haloketones," *Tetrahedron letters,* pp. 6267-6270, 2011. http://www.sciencedirect.com/science/article/pii/S0040403911016169

[42] N. Prosa, "Synthèse supportée d'hétérocycles en milieux éco-compatibles: Etude des conditions par lots et en flux continu. Purification par ultrafiltration en phase aqueuse," *Thesis,* 2011. https://hal.archives-ouvertes.fr/tel-00664999/

[41] A. Stevenin, "Symbiose mycorhizienne: développement de nouvelles méthodes pour la synthèse de glycoconjugues bioactifs," *Thesis,* 2011. http://www.theses.fr/2011PA112147

[40] J. Poole, "Diverse Applications of Flow Technology in Discovery Chemistry," *Thesis,* 2011. https://kuscholarworks.ku.edu/handle/1808/8174

2010

Year total: 22

[39] T. Razzaq and C. Kappe, "Continuous flow organic synthesis under high temperature/pressure conditions," *Chem Asian J,* vol. 5, no. 6, 2010. http://onlinelibrary.wiley.com/doi/10.1002/asia.201000010/full

[38] D. Webb and T. Jamison, "Continuous flow multi-step organic synthesis," *Chemical Science,* pp. 675-680, 2010. http://pubs.rsc.org/-/content/articlehtml/2010/sc/c0sc00381f

[37] M. Brasholz, J. Macdonald, S. Saubern, J. Ryan and A. Holmes, "A gram-scale batch and flow total synthesis of perhydrohistrionicotoxin," *Chemistry,* vol. 16, no. 37, pp. 11471-80, 2010. http://onlinelibrary.wiley.com/doi/10.1002/chem.201001435/full

[36] I. Baxendale, S. Schou, J. Sedelmeier and S. Ley, "Multi-step synthesis by using modular flow reactors: the preparation of yne--ones and their use in heterocycle synthesis," *Chemistry,* vol. 16, pp. 89-94, 2010. http://onlinelibrary.wiley.com/doi/10.1002/chem.200902906/full

[35] Z. Qian, I. Baxendale and S. Ley, "A Continuous Flow Process Using a Sequence of Microreactors with In-line IR Analysis for the Preparation of N,N-Diethyl-4-(3-fluorophenylpiperidin-4 ylidenemethyl) benzamide as a Potent and Highly Selective δ-Opioid Receptor Agonist," *Chemistry-A European Journal,* 2010. http://onlinelibrary.wiley.com/doi/10.1002/chem.201002147/full

[34] Hornung, C. Guerrero-Sanchez, C. Saubern, S. Tsanaktsidis, J. Chiefari and John, "Continuous Flow Processing in Capillary Microreactors for the Synthesis of New Materials," *Engineering at the Edge,* 2010. https://search.informit.com.au/documentSummary;dn=978269238146376;res=IELENG

[33] S. Castellano, L. Tamborini, M. Viviano, A. Pinto, G. Sbardella and P. Conti, "Synthesis of 3aryl/benzyl-4,5,6,6a-tetrahydro-3aH-pyrrolo [3,4-d]isoxazole derivatives: a comparison between conventional, microwave-assisted and flow-based methodologies," *J. Org. Chem.,* pp. 7439-42, 2010. http://pubs.acs.org/doi/abs/10.1021/jo1014323

[32] H. Bartrum, D. Blakemore, C. Moody and C. Hayes, "Synthesis of β-keto esters in-flow and rapid access to substituted pyrimidines," *J. Org. Chem.,* 2010. http://pubs.acs.org/doi/abs/10.1021/jo101783m

[31] F. Venturoni, N. Nikbin, S. Ley and I. Baxendale, "The application of flow microreactors to the preparation of a family of casein kinase I inhibitors," *Org. Biomol. Chem.,* vol. 8, no. 8, pp. 1798-806, 2010. http://pubs.rsc.org/en/content/articlehtml/2010/ob/b925327k

[30] L. Malet-Sanz, J. Madrzak, S. Ley and I. Baxendale, "Preparation of arylsulfonyl chlorides by chlorosulfonylation of in situ generated diazonium salts using a continuous flow reactor," *Org. Biomol. Chem.,* vol. 8, pp. 5324-32, 2010. http://pubs.rsc.org/en/content/articlehtml/2010/ob/c0ob00450b

[29] F. Muller and B. Whitlock, "An alternative method to isolate pharmaceutical intermediates," *Organic Process Research & Development,* pp. 84-90, 2010. http://pubs.acs.org/doi/abs/10.1021/op100207e

[28] C. Carter, H. Lange, S. Ley, I. Baxendale, B. Wittkamp, J. Goode and N. Gaunt, "ReactIR flow cell: a new analytical tool for continuous flow chemical processing," *Organic Process Research & Development,* vol. 14, no. 2, pp. 393-404, 2010. http://pubs.acs.org/doi/abs/10.1021/op900305v

[27] M. Baumann, I. Baxendale and S. Ley, "Synthesis of 3-nitropyrrolidines via dipolar cycloaddition reactions using a modular flow reactor," *Synlett,* 2010. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0029-1219344

[26] Z. Qian, I. Baxendale and S. Ley, "A flow process using microreactors for the preparation of a quinolone derivative as a potent 5HT1B Antagonist," *Synlett,* pp. 505-508, 2010. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0029-1219358

[25] A. Cukalovic, J. Monbaliu and C. Stevens, "Microreactor technology as an efficient tool for multicomponent reactions," *Synthesis of Heterocycles via Multicomponent Reactions,* pp. 161-198, 2010. http://link.springer.com/10.1007/7081_2009_22

[24] M. Brasholz, B. Johnson, J. Macdonald, A. Polyzos, J. Tsanaktsidis, S. Saubern, A. Holmes and J. Ryan, "Flow synthesis of tricyclic spiropiperidines as building blocks for the histrionicotoxin family of alkaloids," *Tetrahedron,* vol. 66, no. 33, pp. 6445-6449, 2010. http://www.sciencedirect.com/science/article/pii/S0040402010006745

[23] M. Riccaboni, E. La Porta, A. Martorana and R. Attanasio, "Effect of phase transfer chemistry, segmented fluid flow, and sonication on the synthesis of cinnamic esters," *Tetrahedron,* vol. 66, no. 17, pp. 4032-4039, 2010. http://www.sciencedirect.com/science/article/pii/S0040402010005740

[22] E. Riva, S. Gagliardi, M. Martinelli, D. Passarella, D. Vigo and A. Rencurosi, "Reaction of Grignard reagents with carbonyl compounds under continuous flow conditions," *Tetrahedron,* vol. 66, no. 17, p. 3242, 2010. http://www.sciencedirect.com/science/article/pii/S0040402010003200

[21] F. Stazi, D. Cancogni, L. Turco, P. Westerduin and S. Bacchi, "Highly efficient and safe procedure for the synthesis of aryl 1, 2, 3-triazoles from aromatic amine in a continuous flow reactor," *Tetrahedron Letters,* vol. 51, no. 41, pp. 5385-5387, 2010. http://www.sciencedirect.com/science/article/pii/S0040403910013675

[20] M. Grafton, A. Mansfield and M. Fray, "[3+ 2] Dipolar cycloadditions of an unstabilised azomethine ylide under continuous flow conditions," *Tetrahedron Letters,* vol. 51, no. 7, pp. 1026-1029, 2010. http://www.sciencedirect.com/science/article/pii/S0040403909023570

[19] L. Tamborini, P. Conti, A. Pinto and C. De Micheli, "A highly efficient flow reactor process for the synthesis of N-Boc-3, 4-dehydro-L-proline methyl ester," *Tetrahedron: Asymmetry,* vol. 21, no. 2, p. 222, 2010. http://www.sciencedirect.com/science/article/pii/S0957416610000248

[18] E. Riva, "Flow chemistry applied to the preparation of small molecules potentially useful as therapeutic agents," *Thesis,* 2010. https://air.unimi.it/handle/2434/155261

2009

Year total: 03

[17] M. Baumann, I. Baxendale, L. Martin and S. Ley, "Development of fluorination methods using continuous-flow microreactors," *Tetrahedron,* 2009. http://www.sciencedirect.com/science/article/pii/S0040402009008291

[16] I. Baxendale, S. Ley, A. Mansfield and C. Smith, "Multistep synthesis using modular flow reactors: Bestmann-Ohira reagent for the formation of alkynes and triazoles," *Angew. Chem. Int. Ed. Engl.,* vol. 48, no. 22, 2009. http://onlinelibrary.wiley.com/doi/10.1002/ange.200900970/full

[15] L. Malet-Sanz, J. Madrzak, R. Holvey and T. Underwood, "A safe and reliable procedure for the iododeamination of aromatic and heteroaromatic amines in a continuous flow reactor," *Tetrahedron Letters,* vol. 50, no. 52, 2009. http://www.sciencedirect.com/science/article/pii/S004040390901942X

2008

Year total: 08

[14] T. Asahi, T. Sugiyama and H. Masuhara, "Laser fabrication and spectroscopy of organic nanoparticles," *Acc. Chem. Res.,* vol. 41, no. 12, pp. 1790-8, 2008. http://www.ingentaconnect.com/content/scs/chimia/2008/00000062/00000003/art00019

[13] M. Baumann, I. Baxendale and S. Ley, "The use of diethylaminosulfur trifluoride (DAST) for fluorination in a continuous-flow microreactor," *Synlett,* pp. 2111-2114, 2008. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-2008-1076

[12] M. Baumann, I. Baxendale, S. Ley, N. Nikbin, C. Smith and J. Tierney, "A modular flow reactor for performing Curtius rearrangements as a continuous flow process," *Org. Biomol. Chem.,* vol. 6, no. 9, pp. 1577-86, 2008. http://pubs.rsc.org/en/content/articlehtml/2008/ob/b801631n

[11] M. Baumann, I. Baxendale, S. Ley, N. Nikbin and C. Smith, "Azide monoliths as convenient flow reactors for efficient Curtius rearrangement reactions," *Org. Biomol. Chem.,* vol. 6, no. 9, pp. 1587-93, 2008. http://pubs.rsc.org/en/content/articlehtml/2008/ob/b801634h

[10] I. Baxendale, S. Ley, C. Smith, L. Tamborini and A. Voica, "A bifurcated pathway to thiazoles and imidazoles using a modular flow microreactor," *J Comb Chem,* vol. 10, no.6, pp. 851-7, 2008.

http://pubs.acs.org/doi/abs/10.1021/cc800070a

[9] K. Geyer and P. Seeberger, "Microreactors as the Key to the Chemistry Laboratory of the Future," *Systems Chemistry,* pp. 87-108, 2008. http://www.beilstein-institut.de/download/625/06_seeberger.pdf

[8] S. Ley and I. Baxendale, "New tools for molecule makers: emerging technologies," *Systems Chemistry,* 2008. https://community.dur.ac.uk/i.r.baxendale/papers/Beilstein.2009.65.pdf

[7] A. Vasudevan, "Microwave-assisted organic synthesis an enabling technology with disruptive potential," *Drug Discov World,* pp. 83-88, 2008.
http://www.ddw-online.com/media/32/2307/fall-08-microwave.pdf

2007

Year total: 05

[6] C. Griffiths-Jones, M. Hopkin, D. Jönsson, S. Ley, D. Tapolczay, E. Vickerstaffe and M. Ladlow, "Fully automated flow-through synthesis of secondary sulfonamides in a binary reactor system," *J Comb Chem,* vol. 9, no. 3, pp. 422-30, 2007.
http://pubs.acs.org/doi/abs/10.1021/cc060152b

[5] J. Moseley and S. Lawton, "Initial results from a commercial continuous flow microwave reactor for scale-up," *chimica oggi Chemistry Today,* vol. 25, no. 2, pp. 16-19, 2007.
http://www.teknoscienze.com/agro/pdf/moseley.pdf

[4] N. Nikbin, M. Ladlow and S. Ley, "Continuous flow ligand-free Heck reactions using monolithic Pd [0] nanoparticles," *Organic Process Research & Development,* vol. 11, no. 3, pp. 458-462, 2007.
http://pubs.acs.org/doi/abs/10.1021/op7000436

[3] C. Smith, I. Baxendale, S. Lanners, J. Hayward, S. Smith and S. Ley, "[3 + 2] Cycloaddition of acetylenes with azides to give 1,4-disubstituted 1,2,3-triazoles in a modular flow reactor," *Org. Biomol. Chem.,* vol. 5, no. 10, pp. 1559-61, 2007.

http://pubs.rsc.org/en/content/articlehtml/2007/ob/b702995k

[2] C. Wiles, P. Watts and S. Haswell, "The use of solid-supported reagents for the multi-step synthesis of analytically pure alpha,beta-unsaturated compounds in miniaturized flow reactors," *Lab Chip,* vol. 7, no. 3, pp. 322-30, 2007.
http://link.springer.com/chapter/10.1007/2789_2007_033

2006

Year total: 01

[1] M. Baumann, I. Baxendale, S. Ley, C. Smith and G. Tranmer, "Fully automated continuous flow synthesis of 4,5-disubstituted oxazoles," *Org. Lett.,* vol. 8, no. 23, pp. 5231-4, 2006.
http://pubs.acs.org/doi/abs/10.1021/ol061975c