Peer-Reviewed Publications Citing Vapourtec Ion Electrochemical Reactor

2026

Total publications as of 30th June 2026: 40

Year total: 2

[40] 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

[39] 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

2025

Year total: 5

[38] 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

[37] 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

[36] 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

[35] Sharma UK, "Hybrid Enabling Technologies for Organic Synthesis", Chimia, Vol. 79, pp. 424-432, 2025. https://www.chimia.ch/chimia/article/view/2025_424

[34] Pascali G, Ryan P, Bhattacherjee D, Wirth T, Hunter L, " Electrochemical fluorination of proline derivatives", European Journal of Organic Chemistry, Vol. 28, 2025. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202500264?casa_token=HXMk7YQDkb8AAAAA:mphHhZfN3a5JD2kwKOtIArQ-uZjL6tS7Lk9klYYc1ieMqUORMWZsBH0nRO59yPTll0eVcOAHI8Ab-H9e

2024

Year total: 10

[33] Stephen H, Longhurst H, Nunn M, Parsons C, Burns M, "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, pp. 883-887, 2024. https://pubs.rsc.org/en/content/articlelanding/2024/re/d3re00632h

[32] Cantillo D, "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

[31] MacLean I, García M, Cabrera S, Marzo L, Alemán J, "Electrochemically driven green synthesis to unlock sustainable routes to β-keto spirolactones", Green Chemistry, Vol. 26, pp. 6553-6558, 2024. https://pubs.rsc.org/en/journals/journalissues/gc#!recentarticles&adv

[30] Patra T, Arepally S, Seitz J, Wirth T, "Electrocatalytic continuous flow chlorinations with iodine(I/III) mediators", Nature Communications, Vol. 15, pp. 6329, 2024. https://www.nature.com/articles/s41467-024-50643-z

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

[28] Morvan J, Kuijpers K, Fanfair D, Tang B, Bartkowiak K, Van eynde L, Renders E, Wolkenberg S, Alcazar J, Buijnsters P, Carvalho M, Jones A, "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

[27] 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, pp. 4011-4017, 2024.
https://pubs.acs.org/doi/abs/10.1021/acs.oprd.4c00302

[26] Mizar P, Arepally S, Wirth T, "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

[25] Morvan J, Kuijpers K, Fanfair D, Tang B, Bartkowiak K, Eynde L, Renders E, Alcazar J, Buijnsters P, Carvalho M, Jones A, "Electrochemical C–O and C–N Arylation using Alternating Polarity in flow for Compound Libraries", Angewandte Chemie, 2024.
https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.202413383

[24] Regnier M, Vega C, Ioannou D, Noël T, "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

2023

Year total: 8

[23] Rial-Rodríguez E, Wagner J, Eggenweiler H, Fuchss T, Sommer A, Kappe O, Williams J, Cantillo D, "A low-volume flow electrochemical microreactor for rapid and automated process optimization", Reaction Chemistry & Engineering, Vol. 9, pp. 31-36, 2023.
https://pubs.rsc.org/en/content/articlehtml/2024/re/d3re00586k

[22] Gutiérrez López M, Ali R, Tan M, Sakai N, Wirth T, Matile S, "Electric field–assisted anion-π catalysis on carbon nanotubes in electrochemical microfluidic devices", Science advances, Vol. 9, 2023.
https://www.science.org/doi/full/10.1126/sciadv.adj5502#tab-contributors

[21] Baumgarten N, "Influence of operating conditions and recycling concept on energy efficiency, selectivity and stability in continuous electrochemical synthesis", Thesis, 2023.
https://tuprints.ulb.tu-darmstadt.de/entities/publication/8ed3417c-d76a-4bd7-9a66-88c1e1f6185b

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

[19] Ali R, Babaahmadi R, Didsbury M, Stephens R, Melen R, Wirth T, "Flow Electrochemistry for the N-Nitrosation of Secondary Amines", Chemistry – A European Journal, Vol. 29, 2023.
https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/chem.202300957

[18] Biremond T, Riomet M, Jubault P, Poisson T, "Photocatalytic and Electrochemical Borylation and Silylation Reactions", The Chemical record, Vol. 72, 2023.
https://onlinelibrary.wiley.com/doi/full/10.1002/tcr.202300172

[17] Iglesias D, Tinajero C, Marchetti S, Roppolo I, Zanatta M, Sans V, "Multi-step oxidative carboxylation of olefins with carbon dioxide by combining electrochemical and 3D-printed flow reactors", Green Chemistry, Vol. 25, pp. 9934-9940, 2023.
https://pubs.rsc.org/en/content/articlehtml/2023/gc/d3gc03360k

[16] Jana S, Mayerhofer V, Teskey C, "Photo- und Electrochemische Cobalt-Katalysierte Wasserstoffatomübertragung für die Hydrofunktionalisierung von Alkenen", Angewandte Chemie, 2023.
https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.202304882

2022

Year total: 3

[15] Azeredo J, Penteado F, Nascimento V, Sancineto L, Braga A, Lenardao E, Santi C, "Green Is the Color": An Update on Ecofriendly Aspects of Organoselenium Chemistry", Molecules, Vol. 27, 2022.
https://www.mdpi.com/1521466

[14] Spils J, Wirth T, Nachtsheim B, "Two-Step Continuous-Flow Synthesis of 6-Membered Cyclic Iodonium Salts via Anodic Oxidation", Beilstein Journal of Organic Chemistry, 2022.
https://chemrxiv.org/doi/full/10.26434/chemrxiv-2022-9q4px

[13] Gnaim S, Bauer A, Zhang H, Chen L, Gannett C, Malapit C, Hill, D, Vogt, D, Tang, T, Daley R, Hao W, Zeng R, Quertenmont M, Beck W, Kandahari E, Vantourout J, Echeverria P, Abruna H, Blackmond D, Minteer S, Reisman S, Sigman M, Baran P, "Cobalt-electrocatalytic HAT for functionalization of unsaturated C–C bonds", Nature, Vol. 605, pp. 687-695, 2022.
https://www.nature.com/articles/s41586-022-04595-3

2021

Year total: 5

[12] Brown R, "The Longer Route can be Better: Electrosynthesis in Extended Path Flow Cells", Chemical record, Vol. 21, pp. 2472-2487, 2021. https://onlinelibrary.wiley.com/doi/abs/10.1002/tcr.202100163

[11] Petti A, Fagnan C, Melis C, Tanbouzza N, Gracia A, Mastrodonato A, Leech M, Goodall I, Dobbs A, Ollevier T, Lam K, "Supporting-Electrolyte-Free Anodic Oxidation of Oxamic Acids into Isocyanates: An Expedient Way to Access Ureas, Carbamates, and Thiocarbamates", Organic Process Research & Development, Vol. 25, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00112

[10] Willis A, Charvet S, Battilocchio C, Scarborough C, Wheelhouse K, Poole D, Carson N, Vantourout J, "High-Throughput Electrochemistry: State of the Art, Challenges, and Perspective", Organic Process Research & Development, Vol. 25, pp. 2587-2600, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.oprd.1c00167

[9] Seitz J, Wirth T, "Electrochemical bromofunctionalization of alkenes in a flow reactor", Organic & Biomolecular Chemistry, Vol. 19, pp. 6892-6896, 2021. https://pubs.rsc.org/en/content/articlelanding/2021/ob/d1ob01302e

[8] Amri N, Wirth T, "Flow Electrosynthesis of Sulfoxides, Sulfones, and Sulfoximines without Supporting Electrolytes", The Journal of Organic Chemistry, Vol. 86, pp. 15961-15972, 2021. https://pubs.acs.org/doi/abs/10.1021/acs.joc.1c00860

2020

Year total: 3

[7] Schotten C, Nicholls T, Bourne R, Kapur N, Nguyen B, Willans C, "Making electrochemistry easily accessible to the synthetic chemist", Green Chemistry, Vol. 22, pp. 3358-3375, 2020. https://pubs.rsc.org/en/content/articlelanding/2020/gc/d0gc01247e

[6] Maljuric S, Jud W, Kappe O, Cantillo D, "Translating batch electrochemistry to single-pass continuous flow conditions: an organic chemist's guide", Journal of Flow Chemistry, Vol. 10, pp. 181-190, 2020. https://link.springer.com/article/10.1007/s41981-019-00050-z

[5] Amri N, Wirth T, “Accelerating Electrochemical Synthesis through Automated Flow: Efficient Synthesis of Chalcogenophosphites”, Synlett, Vol. 31, pp. 1894-1898, 2020. https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0040-1707141#publication-history

2019

Year total: 4

[4] Elsherbini M, Winterson B, Alharbi H, Folgueiras-Amador A, Génot C, Wirth T, “Continuous-Flow Electrochemical Generator of Hypervalent Iodine Reagents: Synthetic Applications”, Angewandte Chemie, Vol. 58, pp. 9811-9815, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201904379

[3] Ahmed N, Vgenopoulou A, “Flow Electrochemical Cyclizations via Amidyl Radicals: Easy Access to Cyclic Ureas”, SynOpen, Vol. 3, pp. 46-48, 2019. https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0037-1611772

[2] Elsherbini M, Winterson B, Alharbi H, Folgueiras-Amador A, Génot C, Wirth T, “Elektrochemischer Durchlaufgenerator für hypervalente Iodreagenzien: Synthetische Anwendungen”, Angewandte Chemie, Vol. 121, pp. 9916-9920, 2019. https://onlinelibrary.wiley.com/doi/abs/10.1002/ange.201904379

[1] Santi M, Seitz J, Cicala R, Hardwick T, Ahmed N, Wirth T, “Memory of Chirality in Flow Electrochemistry: Fast Optimisation with DoE and Online 2D-HPLC”, Chemistry - A European Journal, Vol. 25, pp. 16230-16235, 2019. https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.201904711