

FULLFLOW

Autumn 2022 Newsletter

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Welcome to the Autumn 2022 issue of FullFlow, the flow chemistry newsletter from Vapourtec, a must-read for all scientists interested in continuous processing applications and technology.

Read on to find out the latest product news, new publications using the Vapourtec flow chemistry systems and upcoming events.

[Product News](#) | [Latest News](#) | [Events](#) | [Publications](#)

Product News

The Vapourtec RS-500 Continuous Flow Solid Phase Peptide Synthesis

FASTER | SCALABLE | MORE EFFICIENT



The Vapourtec R-Series platform is a versatile flow chemistry system that can be used for any step of the synthesis of proteins and peptides, including cleaving the peptide off the resin

[Learn More](#)

Latest News



Official launch of the ARC Centre of Excellence for Innovations in Peptide and Protein Science

Vapourtec partners with the ARC Centre of Excellence for Innovations in Peptide and Protein Science

Vapourtec is thrilled to have partnered with the [ARC Centre of Excellence for Innovations in Peptide and Protein Science \(CIPPS\)](#) to provide technology and expertise for the [synthesis of peptides](#) and proteins in continuous flow.

[Read More...](#)

[Read More Vapourtec News](#)



Vapourtec joins panel discussion on the future of flow in Chemistry Today

Dr Manuel Nuño, Vapourtec's Chief Scientific Officer, was recently featured in [Chemistry Today](#). As part of a panel discussing flow chemistry, Manuel joined other established members of the chemistry community to provide an overview of current flow trends, offering a unique insight into the recent features of continuous processing from an industrial perspective.

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Events

Challenges in Catalysis VII

15th November 2022

London – United Kingdom

The SCI's Fine Chemicals Group and the RSC's Applied Catalysis Group are pleased to announce this one-day biennial symposium – Challenges in Catalysis for Pharmaceuticals and Fine chemicals VII. The aim of this meeting, well-supported both by industry and academia is to debate the current developments in catalysis, where they are going and what industry needs. An exciting line up of leading academic and industrial scientists will present a series of lectures covering topics in homogeneous, heterogeneous and enzymatic catalysis.

[Find out more >>>](#)



**Automated
Synthesis
Forum**

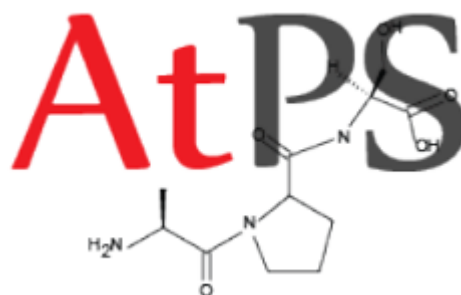
The 2022 Automated Synthesis Forum

28th – 29th November 2022

Macclesfield (AZ) – United Kingdom

AtPS 2022 is returning as a live event this year, after having been moved to a virtual event last December due COVID-19, and will be held at the van-Swieten hall in Vienna.

There will be a series of lectures and short oral presentations given by renowned national and international speakers, on topics including peptide chemistry and synthesis, peptide drug development and



11th Austrian Peptide Symposium, AtPS 2022

1st December 2022

Vienna – Austria

The 36EPS scientific committee has set out to assemble an exciting program with a broad range of topics covering, among others, advances in peptide chemistry and structure, bioactive peptides and their therapeutic applications, and peptide biomaterials, nanotechnology and delivery.

delivery, peptide structural biology, and peptide pharmacology.

[Find out more >>>](#)

[Find out more >>>](#)



8th Winter Process Chemistry Conference

5th – 7th December 2022

Newcastle – United Kingdom

The 8th Winter Process Conference will showcase presentations from International Chemists covering all aspects of Process Development.

The speakers will discuss the latest issues in synthetic route design, development and optimisation, reactor design, work up and purification, crystallisation, process engineering, hazard studies and quality and regulatory issues.

[Find out more >>>](#)

RSC Macrocyclic and Supramolecular Chemistry Meeting

19th – 20th December 2022

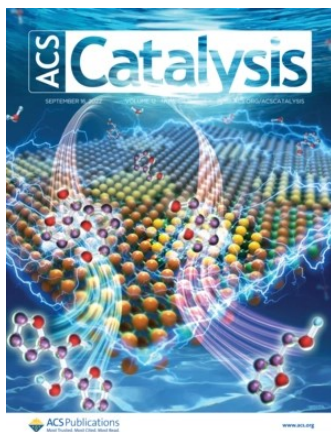
Nottingham – United Kingdom

The annual meeting of the RSC Macrocyclic and Supramolecular Chemistry Interest Group will be held at the University of Nottingham on Monday 19th and Tuesday 20th December 2022. The MASC conference series is a long-standing event, initiated during the early 1980s. This two day conference is considered the annual get-together of the UK macrocycle and supramolecular community, and typically attracts up to 250 delegates.

[Find out more >>>](#)

Publications

Selected publication highlights since the Summer edition of the FlowFlow newsletter. To view all publications citing Vapourtec, [click here](#).



The Merger of Benzophenone HAT Photocatalysis and Silyl Radical-Induced XAT Enables Both Nickel-Catalyzed Cross-Electrophile Coupling and 1,2-Dicarbonylation of Olefins

Alberto Luridiana^a, Daniele Mazzarella^a, Luca Capaldo^a, Juan A. Rincón^b, Pablo García-Losada^b, Carlos Mateos^b, Michael O. Frederick^c, Manuel Nuño^d, Wybren Jan Buma^e and Timothy Noël^a

^aFlow Chemistry Group, Van't Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam, Science Park 904, 1098 XH Amsterdam, The Netherlands

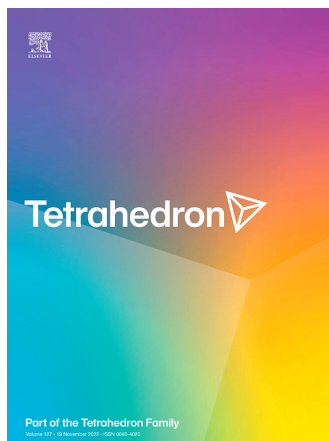
^bCentro de Investigación Lilly S.A., Avda. de la Industria 30, Alcobendas-Madrid 28108, Spain

^cSmall Molecule Design and Development, Eli Lilly and Company, Indianapolis, Indiana 46285, United States

^dVapourtec Ltd. Park Farm Business Centre, Fornham St Genevieve, Bury St Edmunds, Suffolk IP28 6TS, U.K.

^eMolecular Photonics, Van't Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam, Science Park 904, 1098 XH Amsterdam, The Netherlands.

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A simple one-pot oxidation protocol for the synthesis of dehydrohedione from Hedione

James S.Sharley, Guido Gambacorta, Ana María Collado Pérez, Estela Espinos Ferri, Amadeo Fernandez Miranda, Isabelle Fernández Fernández, Jorge Sanchez Quesada, Ian R.Baxendale

Department of Chemistry, University of Durham, South Road, Durham, DH1 3LE, United Kingdom
International Flavours & Fragrances Inc., Avda Felipe Klein 2, 12580, Benicarló, Castellón, Spain

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Self-healing and polymer welding of soft and stiff epoxy thermosets via silanolates

Amelia A. Putnam-Neeb, Jordan M.



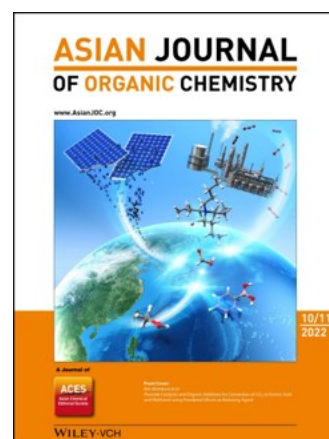
Membrane-based TBADT recovery as a strategy to increase the sustainability of continuous-flow photocatalytic HAT transformations

Zhenghui Wen, Diego Pintossi, Manuel Nuño & Timothy Noël

^aFlow Chemistry Group, Van 't Hoff Institute for Molecular Sciences, Faculty of Science, University of Amsterdam, Science Park 904, 1098 XH, Amsterdam, The Netherlands

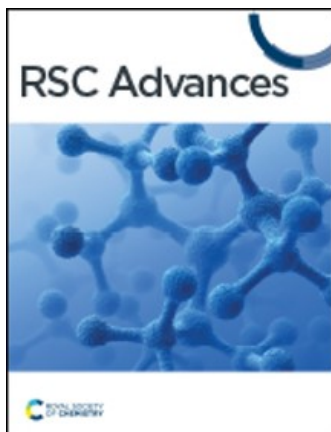
^bVapourtec Ltd., Park Farm Business Centre, Fornham St Genevieve, Bury St Edmunds, Suffolk, IP28 6TS, UK

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Synthesis of CTA and DNAN using flow chemistry





A practical flow synthesis of 1,2,3-triazoles

Dawid Drelinkiewicz and Richard J. Whitby

School of Chemistry, Faculty of Engineering and Physical Sciences, The University of Southampton, Southampton, UK

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Kaiser, Amber M. Hubbard, Dayton P. Street, Matthew B. Dickerson, Dhriti Nepal, Luke A. Baldwin

Air Force Research Laboratory, Wright Patterson Air Force Base, Dayton, OH, 45433, USA
UES, Inc, Dayton, OH, 45432, USA

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Ankit Kumar Mittal^a, Gaurav Prakash^a, Pramod Pathak^a, Debabrata Maiti^a

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