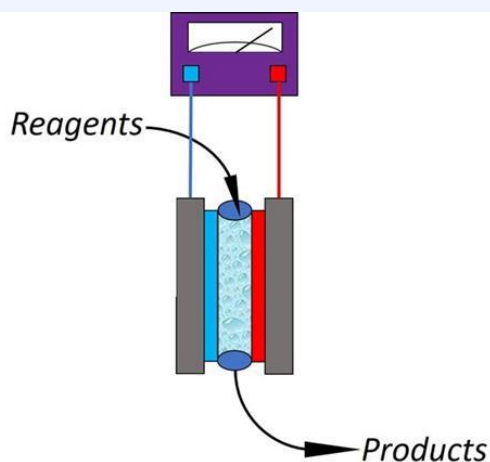


Welcome to the Summer 2018 issue of FullFlow, the flow chemistry newsletter from Vapourtec, a must-read for all Scientists interested in continuous processing applications and technology.

Product News



Progress update – Vapourtec’s new Electrochemical reactor

The collaboration between Vapourtec and Cardiff University towards a versatile lab scale electrochemical reactor is moving fast. The planned release date for the new reactor is September. Read the latest update on this exciting new reactor development.

[Read more](#)

Vapourtec Photochemical reactor – 4 years on

In March 2014 Vapourtec released the UV-150 Photochemical reactor. The product is becoming well established, now cited in 45 peer reviewed publications. Since its introduction, we have focussed on working with customer feedback to further develop the product. It now boasts a range of additional sought after features.

[Read more](#)



Introducing the Application Programming Interface (API)

In 2010 an innovative start-up called Cyclofluidic approached Vapourtec with the need for an interface between their molecule optimisation algorithms and Vapourtec R-Series tasked with running the next synthesis iteration. Vapourtec developed the API. Over the years this software has evolved into a very powerful interface enabling reaction optimisation and automated library synthesis.

[Read more](#)

Latest News



Dichlorophenylacrylonitriles as AhR Ligands – Targeting breast cancer

Prof. Adam McCluskey and a team of collaborators from Newcastle, Australia and West Lafayette, USA perform a photo-bromination in continuous flow, of a highly promising series of anti-cancer compounds.

[Read more](#)



Light-Induced Nickel-Catalysed Negishi Cross-Coupling



Huge Flow Success at Achema 2018

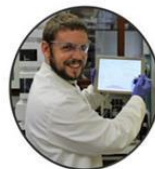
The Achema meeting in Frankfurt saw great interest in continuous flow chemistry. Vapourtec was excited with the level of interest particularly regarding continuous flow photochemistry.

[Read more](#)

A Tube With A View

a flow chemistry blog

Blog 1 – Flow Chemistry Blog and 5- fluorouracil hydration



Well, hello and how do you do. My name is Ryan Skilton, and I am the research scientist at a company called Vapourtec. We manufacture equipment for flow chemistry. We really wanted to tell everyone a bit more about what we do and how we do it, so I have started to write this blog. Hopefully you will enjoy it and find out a little more about how we go about things.

A Tube With A View

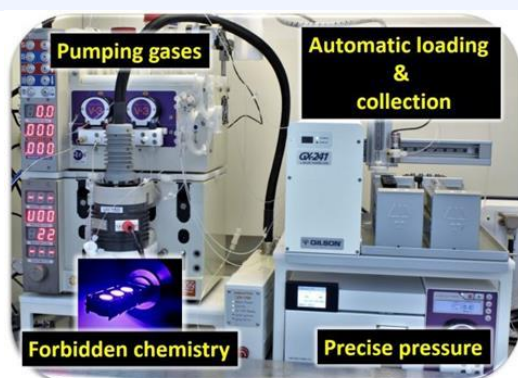
Dr Jesús Alcázar and the team from Janssen Research and Development have collaborated with the Universidad de Castilla-La Mancha to demonstrate how light can be used to enhance nickel-catalysed Negishi cross-coupling reactions.

[Read more](#)

Vapourtec Research Scientist, Dr Ryan Skilton has begun a written blog – A Tube with a View – to share flow chemistry experiences.

[Read more](#)

Application Notes



Automated photochemical library synthesis

This application note shows rapid synthesis of a library of 12 [2+2] photo-cycloadducts in 50 mg quantities and rapid screening of a range of photosensitisers.

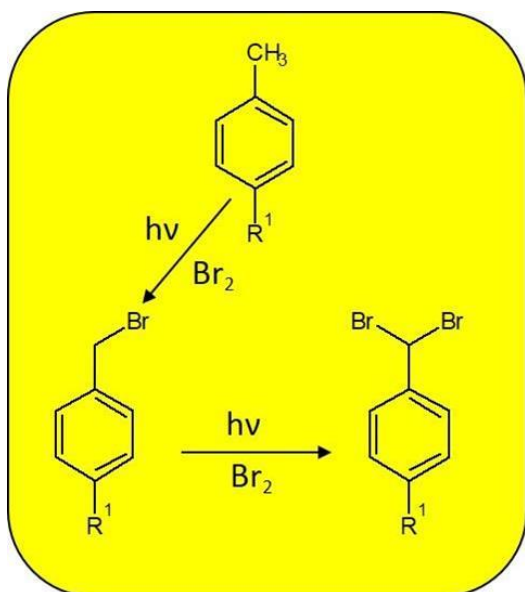
[Read more](#)



Photochemical hydration and scale-up of anti-cancer candidate

This application note shows an efficient and clean functionalisation of a candidate for an anti-cancer pharmaceutical.

[Read more](#)



Photochemical Bromination with molecular bromine

In this application, a solution of elemental bromine is used to perform the photobromination of a range of substituted toluenes, and explore their scale-up to over 10 g/hr.

[Read more](#)

Events



PERCH-CIC Congress X: 2018 International Congress for Innovation in Chemistry: Pattaya, Thailand, **4th-7th July 2018**



Dial a Molecule Annual Meeting 2018: London, **9th-10th July 2018**

The agenda will include sessions specifically related to ROAR as well as sessions on each of the 3 main Dial-a-Molecule themes – Data-Driven

Our distributors in Thailand will be exhibiting at the PERCH-CIC Congress X: 2018 International Congress for Innovation in Chemistry.

[Read more](#)



27th PhotoIUPAC Dublin
2018: University College Dublin,
Ireland, **8th-13th July 2018**

The scientific topics to be covered in the Symposium include areas of unparalleled impact in the world today: renewable energy sources, green chemistry, atmospheric photochemistry, single molecule microscopy and super resolution imaging.

[Read more](#)

Chemistry, Enabling Technologies and Synthesis College.

[Read More](#)

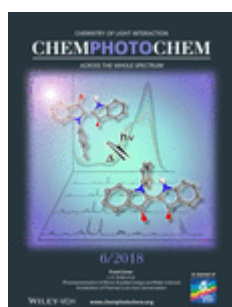


256th ACS National Meeting & Exposition: Boston, **19th-23rd August 2018**

Benefit from the expert knowledge of academic and industry leaders who are pushing the boundaries of this rapidly evolving field and learn how you can transform your organic synthesis processes into a more streamlined, continuous set of synthesis operations.

[Read More](#)

Publications



Studies toward the scaling of gas-liquid photocycloadditions

Dr. Emily B. Corcoran, Dr. François Lévesque, Dr. Jonathan P. McMullen, Dr. John R. Naber

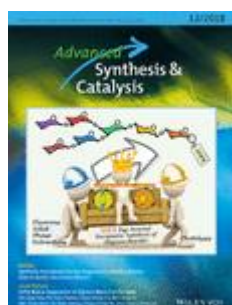
Department of Process Research and Development, Merck Sharp & Dohme Corp., Rahway, USA.

Self-sustaining closed-loop multienzyme-mediated conversion of amines into alcohols in continuous reactions

Martina L. Contente, Francesca Paradisi

School of Chemistry, University of Nottingham, Nottingham, United Kingdom.

Read more



An Efficient Benzoxaborole One-Pot Synthesis by *SiliaCat* DPP-Pd Heterogeneous Catalysis using Diboronic Acid

Kana Kunihiro, Laurence Dumais, Guillaume Lafitte, Emeric Varvier, Loïc Tomas, Craig S. Harris

Read more



Copper mediated, heterogeneous, enantioselective intramolecular Buchner reactions of α -diazoketones using continuous flow processing

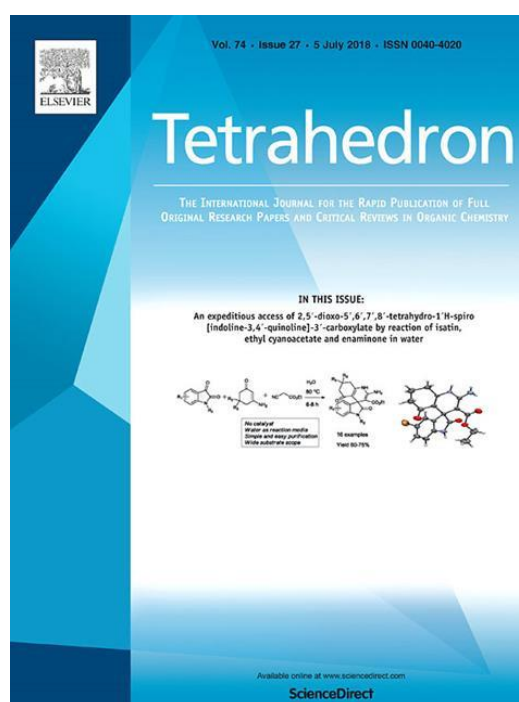
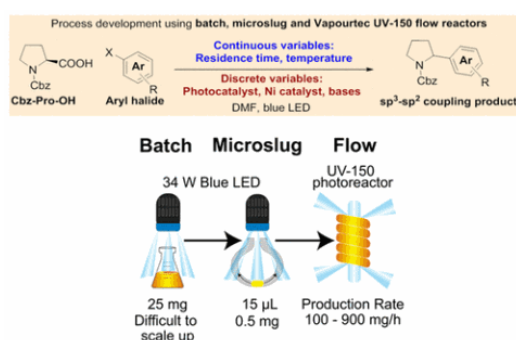
DC Crowley[†], D Lynch[†], AR Maguire[‡] [†] School of Chemistry, Analytical and Biological Chemistry Research Facility, University College Cork, Cork T12 K8AF, Ireland [‡] School of Chemistry and School of Pharmacy, Analytical and Biological

Nestlé Skin Health, Galderma R&D, France Ecole Nationale Supérieure des Ingénieurs en Arts Chimiques et Technologiques, France.

Chemistry Research Facility, Synthesis and Solid State Pharmaceutical Centre, University College Cork, Cork T12 K8AF, Ireland.

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Photoredox Iridium–Nickel Dual-Catalyzed Selective N-monomethylation of primary Decarboxylative Arylation Cross-Coupling: anilines with dimethyl carbonate in continuous flow

From Batch to Continuous Flow via Self-Optimizing Segmented Flow Reactor Hsiao-Wu Hsieh[†], Connor W. Coley[‡], Lorenz M. Baumgartner[‡], Klavs Chen, Robert W. Hicklin, Alexander Alabugin, F. Jensen*[‡], and Richard I. Robinson*^{††} [†] Global Discovery Chemistry – Chemical Technology Group, Novartis Institutes for Biomedical Research, 250 Massachusetts Avenue, Cambridge, Massachusetts 02139, United States [‡] Department of Chemical Engineering, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, United States.

Hyowon Seo, Anne-Catherine Bédard, Willie P. Timothy F. Jamison, Department of Chemistry, Massachusetts Institute of Technology, 77 Massachusetts Ave., Cambridge, MA 02139, USA.

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