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fullflow from Vapourtec

Welcome to the autumn 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



The Vapourtec Ion electrochemical reactor is NOW available

Vapourtec has developed the Ion electrochemical reactor, a pioneering electrochemical reactor that will lead to more efficient, precise, consistent, and scalable electrochemical synthesis offering potential routes for novel compounds and building blocks together with possible new manufacturing processes.

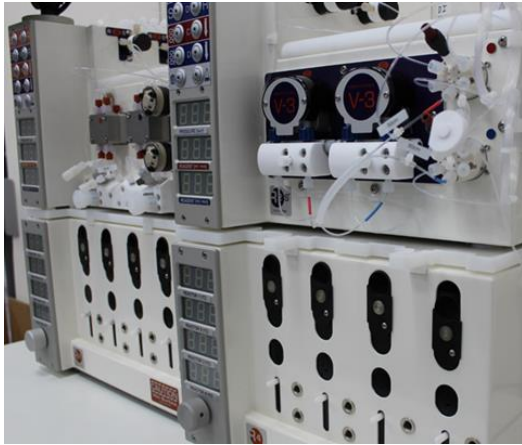
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The Ion is a truly unique reactor watch this video to see inside

The Vapourtec Ion offers a range of exciting features including temperature control and operation under pressurised conditions also having the capability to operate with at least 20 different electrode materials ranging from simple stainless steel through 3 different forms of carbon to exotic materials like boron doped diamond.

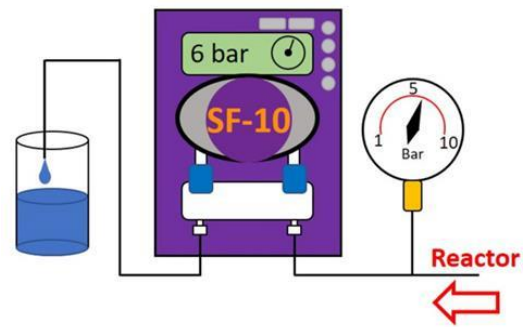
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The R-Series can be expanded to eight independently controlled reactor positions

For our Customers with either the most challenging reactions to telescope or who simply require further scale-up capability. The capability of the Vapourtec R-Series system has been further enhanced by enabling fully automated control of up to eight independently controlled reactor positions.

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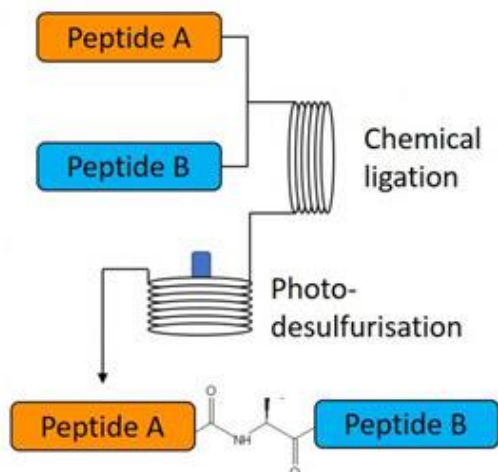


A pressure regulator that can handle particles. One of the exciting features of the SF-10

Solids, particulates, precipitates of any kind can cause a real problem with needle and seat-type back-pressure regulators, causing inconsistent pressure management at best, and blockages at worst. The [SF-10 pump](#) uses the Vapourtec V-3 pumps and can run as a precision pressure regulator

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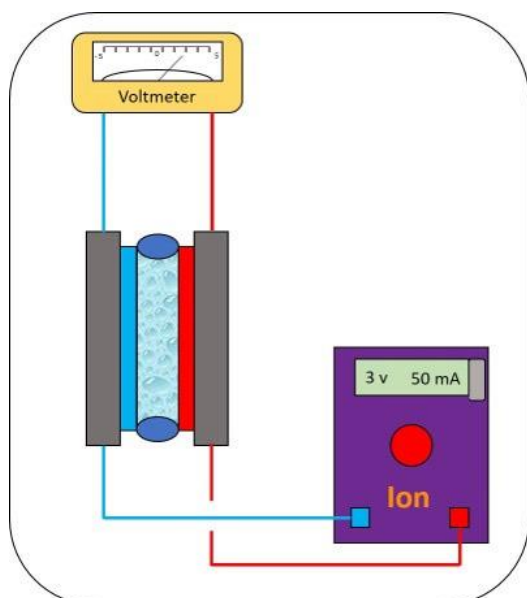
Latest News



In a recent publication in the Journal of the American Chemical Society, Professor Richard Payne and his group at the University of Sydney have demonstrated a powerful flow technique for building long chain peptides, using the Vapourtec R-Series and a photochemical reactor.

Vapourtec has secured an important strategic distribution agreement for the supply of Flow Chemistry systems with Polish specialist laboratory supplier WITKO. This agreement expands and strengthens Vapourtec's presence and distribution network across Europe.

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Vapourtec's regular flow chemistry blog has been discussing a range of interesting observations

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Vapourtec is excited to have sealed a deal with GPE Scientific to distribute the SF-10 lab reagent pump across the UK and Ireland, opening up new

made in The Lab while testing and developing Vapourtec's Ion electrochemical reactor.

commercial possibilities within wider laboratory settings.

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Application Notes

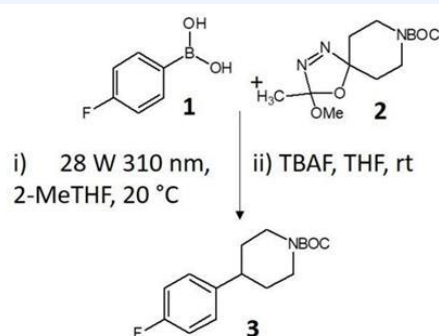


Figure 1: sp^2 - sp^3 cross-coupling achieved using a non-stabilised diazo species photochemically generated in-situ from N-Boc piperidine derived oxadiazoline **2**

Synthesis of a pharmaceutical intermediate by cross-coupling with non-stabilised diazo compounds

Aryl-alkyl cross coupling reactions represent one of the most important emerging topics in synthesis, which linked with hitherto difficult to access highly reactive chemical intermediates represent an exciting area for exploitation by flow chemical methods. This application note builds on recently published work by the Group of Professor Steven Ley, Department of Chemistry, University of Cambridge (UK)

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Events



UK Automated

Uranium 92 U 238.03	Potassium 19 K 39.098
Arsenic 33 As 74.922	Fluorine 9 F 18.996

Synthesis Forum

International Conference on MicroUK Automated Synthesis Forum - Reaction Technology – IMRET UKASF 2018 2018

15th IMRET will take place in the city of Karlsruhe/Germany from 21-24 October 2018, organised by DECHEMA e.V. with the support of the German ProcessNet Working Group on Micro Process Engineering, the IMRET Steering Committee, and the International Flow Chemistry Society.

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2018 UK Automated Synthesis Forum is scheduled to take place at AstraZeneca in Macclesfield, on 29th and 30th October 2018. Themes for discussion will include; flash vacuum pyrolysis, DNA encoded libraries, electrochemistry and peptides/solid phase synthesis.

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Flow Chemistry Congress 2018

The 7th Flow Chemistry Congress is organised by SELECTBIO on behalf of The Flow Chemistry Society. The date is 12-13 November 2018 at Courtyard by Marriott Miami Downtown/Brickell Hotel, Miami, USA.



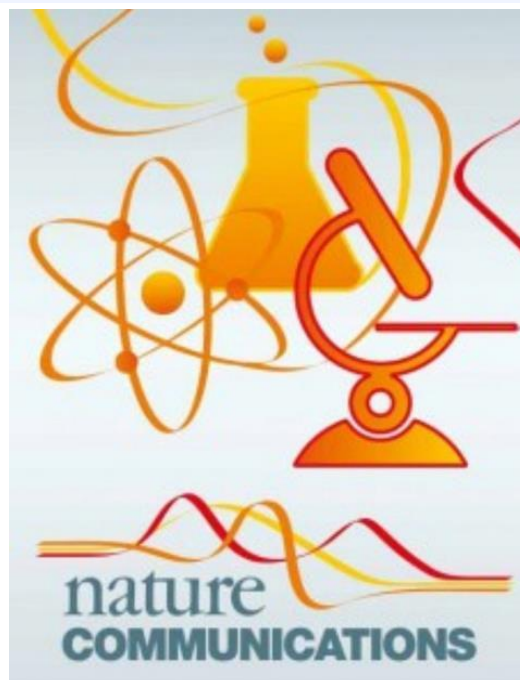
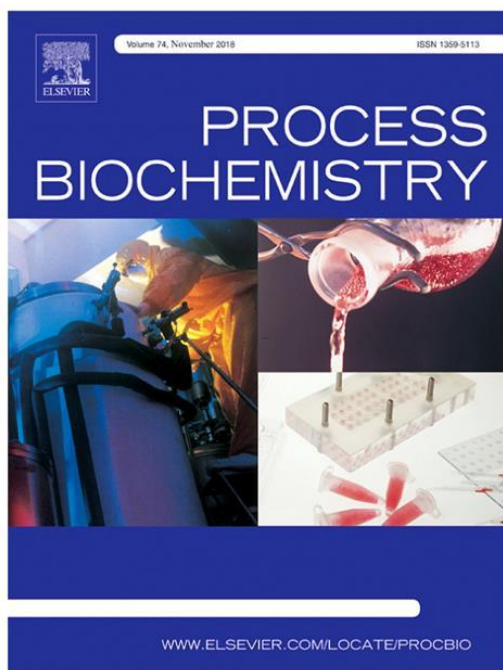
10th Symposium on Continuous Flow Reactor Technology for Industrial Applications

The symposium attracts more than 150 delegates from around the world. This year's conference is located at Ramada Plaza – Milano – Italy from 13-15th November 2018.

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Publications



Flow-based biocatalysis: Application to peracetylated arabinofuranosyl-1,5-arabinofuranose synthesis

Teodora Bavaro (a), Andrea Pinto (b), Federica Dall'Oglio (c), María J. Hernández (d), Carlo F. Morelli (e), Paolo Zambelli (b), Carlo De Micheli (c), Paola Conti (c), Lucia Tamborini (c), Marco Terreni (a)

(a) Department of Drug Sciences, University of Pavia, Viale Taramelli 12, 27100 Pavia, Italy

(b) Department of Food Environmental and Nutritional Science (DeFENS), University of Milan, Via Mangiagalli 25, 20133 Milan, Italy

(c) Department of Pharmaceutical Sciences (DISFARM), University of Milan, Via Mangiagalli 25, 20133 Milan, Italy

A flow platform for degradation-free CuAAC bioconjugations

Marine Z.C. Hatit (1), Linus F. Reichenbach (1), John M. Tobin (2), Filipe Vilela (2), Glenn A. Burley (1) & Allan J.B. Watson (3,2)

(1) Department of Pure and Applied Chemistry, University of Strathclyde, 295 Cathedral Street, Glasgow G1 1XL, UK.

(2) Chemical Sciences, Heriot-Watt University, Edinburgh EH14 4AS, UK.

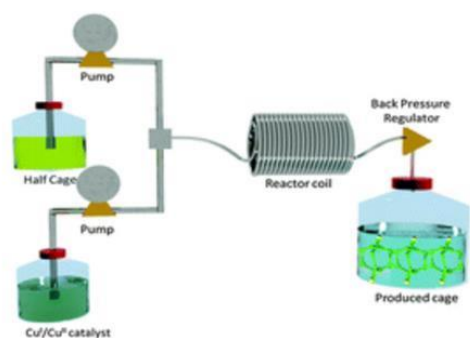
(3) School of Chemistry, University of St Andrews, North Haugh, St Andrews KY16 9ST, UK.

(d) Department of Pharmaceutical and Organic Chemistry, Faculty of Pharmacy, Complutense University of Madrid, Plaza de Ramón y Cajal s/n, 28040 Madrid, Spain

(e) Department of Chemistry, University of Milan, Via Golgi 19, 20133 Milan, Italy

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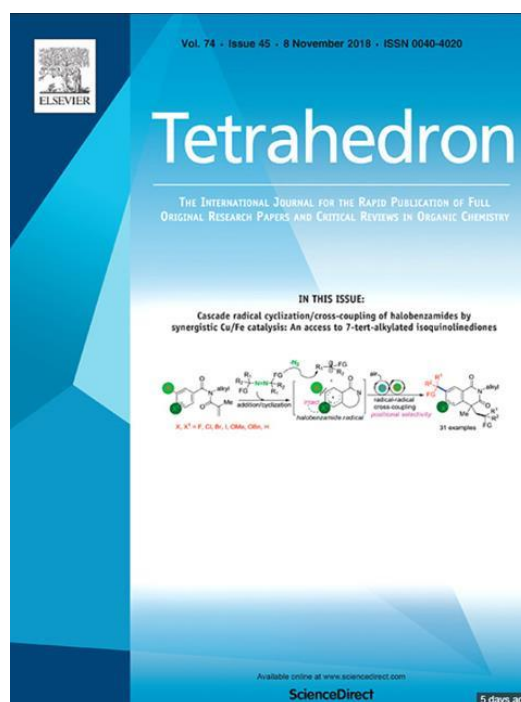
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Continuous flow synthesis of a carbon-based molecular cage macrocycle via a three-fold homocoupling reaction

* Corresponding authors a b Centre for Advanced Nanomaterials and the School of Physical Sciences, The University of Adelaide, Adelaide, Australia Melanie Kitchin (ab), Kristina Konstas (a), Christopher J. Sumby (b), Milena L. Czyz (a), Peter Valente (b), Matthew R. Hill *(ab), Anastasios Polyzos *(ac), Christian J. Doonan *(ab)

* Corresponding authors



Combining CH functionalisation and flow photochemical heterocyclic metamorphosis (FP-HM) for the synthesis of benzo [1, 3] oxazepines

Jasraj S. Babra, Andrew T. Russell, Christopher D. Smith, Yuxiong Zhang

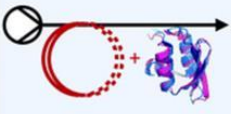
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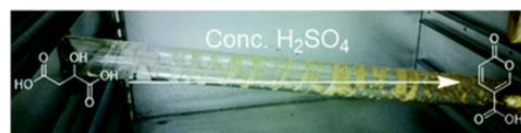
Continuous Flow Biocatalysis



- ◆ Up to 340 Better Than Batch
- ◆ Improved Control
- ◆ New Process Windows
- ◆ Green Processes

*Kinetic Resolution
Continuous Flow Systems
New Technology*

*Whole Cell Catalysis
Purified Protein Catalysis
>200 References*



Continuous flow biocatalysis

Joshua Britton, Sudipta Majumdar, Gregory A. Weiss

Department of Chemistry, Molecular Biology and Biochemistry, University of California, Irvine, USA

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Flow Synthesis of Coumalic Acid and its Derivatization

Laura K. Smith and Ian R. Baxendale

Department of Chemistry, University of Durham, South Road, Durham, DH1 3LE, UK.

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