+44 (0) 1284 728659

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, recent application notes, and upcoming events.

Welcome to the Summer 2024 issue of FullFlow, the flow chemistry newsletter

New compact and flexible peptide synthesizer: Peptide-ExplorerLT

Product News



 More controlled chemistry: eliminating randomness and increasing crude purity Uniform heating: minimising aggregations and accessing difficult peptides • Effortless linear scale-up with identical purity Short cycle times

The benefits of Vapourtec's FF-SPPS with our proprietary Variable Bed Flow Reactor

(VBFR) over traditional SPPS methods include:

Option to add external equipment including in-line analytics tools

Fully automated reactions for unattended operation

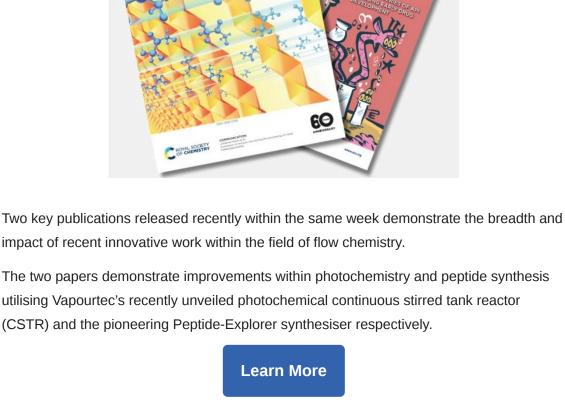
Data logging and graphing capabilities

Option for OPC UA interface

If you own a Vapourtec E-Series system, you can now upgrade it with the new E-Series

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- ChemComm
- Learn More



within flow chemistry. Vapourtec and collaborators at Accelerated Materials have been demonstrating how the Vapourtec flow chemistry systems and software with OPC UA can be utilised for self-optimising reactions for example.

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There is a growing role and potential for machine learning in chemistry, and particularly

The rise of continuous flow biocatalysis

Active Sites

Product detaches

Product

Substrates

Enzyme



24th - 28th July 2024 Taipei – Taiwan Attending: CSO Dr Manuel Nuño

Application Note 77: VBFR-based continuous flow synthesis of

This application note illustrates the capabilities of Vapourtec's flow chemistry systems in the field of solid-phase oligonucleotide synthesis in flow. Previous application notes have

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Events



MATERIALS A hydrazine-free photoredox catalytic Poly(ionic liquid)-based aerogels for synthesis of azines by reductive activation continuous-flow CO2 upcycling of readily available oxime esters Click to view

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 In-line data for rapid reaction optimisation • Effective couplings with as low as 1.2 equivalents of amino acids **Learn More** Take your E-Series system to the next level with state-of-the-art automation software



automation software for:

Machine Learning (ML) drives efficiency in automated chemistry

range of recently published enzymatic reactions, where using flow chemistry often achieves higher yields, faster reaction rates, and better selectivity, as well as increased retention of enzyme activity when compared to the batch process.

ACS Fall 2024

Attending: Distributor Manager Ali Deuchars

18th – 22nd August 2024

Denver – USA

Find out more >>>

ACS Publications

Automated One-pot Library Synthesis with Aldehydes as Radical Precursors Click to view hemistry

500+ 500,000+

ChemComm ROYAL SOCIETY OF CHEMISTRY reactor (CSTR) approach Click to view

Multiphase photochemistry in flow mode via an integrated continuous stirred tank Journal of

G (VEARS)

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Phosphoramidite ACN Activator ACN Deprotection DCM Oxidation Water/pyridine/THF

oligonucleotides

covered the synthesis of peptides and carbohydrates using polymeric resin as solid support, using a Variable Bed Flow Reactor (VBFR) to control swelling and growth throughout the synthesis, minimising dead volumes and eliminating channelling of reagents. **Bio Asia Taiwan**

ROYAL SOCIETY OF CHEMISTRY

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ROYAL SOCIETY OF CHEMISTRY

Immobilisation of benzo[c] [1,2,5]thiadiazole (BTZ) within polymers of intrinsic microporosity (PIMs) for use in flow photochemistry Click to view

Continuous-Flow Solid-Phase Peptide Synthesis to Enable Rapid, Multigram **Deliveries of Peptides** Click to view ChemRxiv: Year One and Beyond

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