

FULLFLOW

Summer 2023 Newsletter

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Welcome to the summer 2023 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, recent application notes, and upcoming events.

[Product news](#) | [Latest news](#) | [Publications](#) | [Application notes](#) | [Events](#)

Product News

Product launch; CSTR optimised for

continuous flow

This much requested reactor is now available. Designed specifically for configuration as a cascade of reactors this pioneering reactor opens many new applications for continuous flow to deliver improved synthesis:

- Cascade of up to 8 CSTRs
- Perfect for reactions involving solids
- Capable of pressurised reactions
- Burst disc and protective screen ensure safety



[Learn More](#)

Product launch; range of fast-flow

peptide synthesizers

After 7 years of development Vapourtec is proud to launch a range of four peptide synthesizers covering the scale range 0.05 mmol to 20 mmol. All synthesizers utilise Vapourtec's unique single pass, continuous flow SPPS technique to deliver the highest quality peptides with minimal waste in fast synthesis times.

[Learn More](#)

Latest News

Twenty-up for pioneering Vapourtec

Continuous flow synthesis has developed significantly in the 20 years since the formation of UK-based flow chemistry engineering specialists Vapourtec Ltd. Vapourtec is both proud and grateful to have been associated in a small way with this research. As we celebrate this important milestone our founder, Duncan Guthrie provides his perspective.

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Major publication milestone for Vapourtec

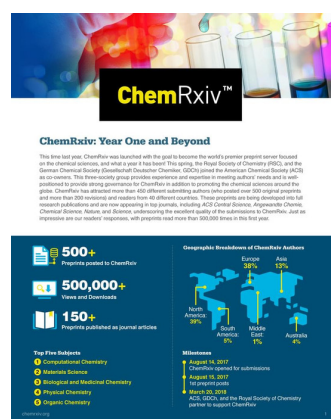
Vapourtec has recently passed the significant milestone of 1000 citations within peer review scientific publications. Read Vapourtec's CSO Dr Manuel Nuño's comments on the customers and collaborators who's excellent science has achieved this remarkable milestone. His comments reflect on the first publications and look forwards to the future.



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Publications

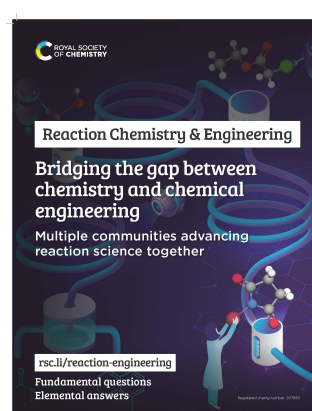
Below are 6 compelling publications selected from the 50+ publications citing Vapourtec in recent months. To view all publications citing Vapourtec, [click here](#).



Late-Stage C(sp²)-C(sp³) Diversification via Nickel Oxidative Addition Complexes

R Martin, C Odena, ML Linares, N Castellanos-Blanco, R McGuire, JM Alonso, A Dieguez, E Tan, J Alcazar, P Buijnsters, S Cañellas

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The α -alkylation of ketones in flow

E. Cooper, E. Alcock, M. Power, G. McGlacken,

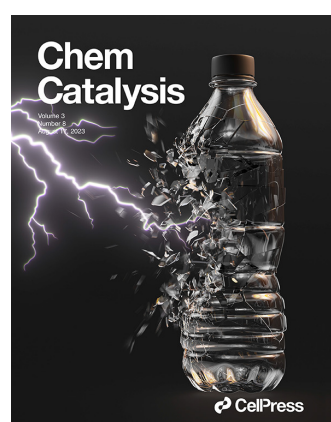
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Accelerated Chemical Reaction Optimization using Multi-Task Learning

C. Taylor, K. Felton, D. Wigh, M. Jeraal, R. Grainger, G. Chessari, C. Johnson, A. Lapki

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Flow photochemical Giese reaction via silane-mediated



automated platform integrated with closed-loop AI/ML approaches

B. Pijper, J. Alcázar, G. Oksdath-Mansilla, F. Bisogno

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activation of alkyl bromides

F. Fanini, A. Luridiana, D. Mazzearella, A. Alfano, P. van der Heide, J. Rincón, P. García-Losada, C. Mateos, M. Frederick, M. Nuño, T. Noël

[Learn More](#)

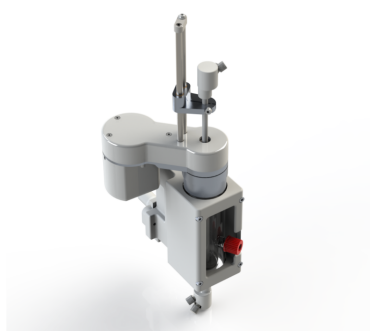
The applications of organozinc reagents in continuous flow chemistry: Negishi coupling

R. Rubert, R. Paul

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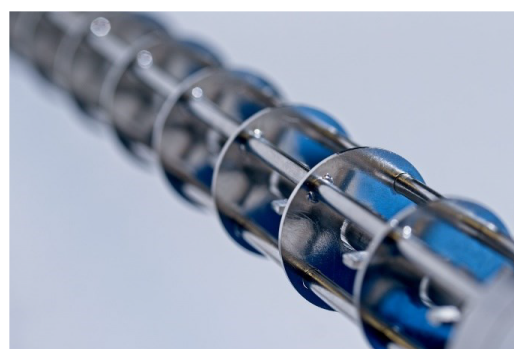
Application Notes



Application Note 72: Cleaving peptides in flow

In this application note, we demonstrate how safe, fast and reliably a peptide is cleaved from a resin in continuous flow. Different cleavage conditions were evaluated using Glucagon-like peptide-1 (GLP-1) as an example peptide. By using the Variable Bed Flow Reactor (VBFR), the packing density of the resin was controlled throughout the reaction, minimising dilution and eliminating channelling of reagents.

[Read More](#)



Application Note 73: Use of CSTR for biphasic reaction scale up

Vapourtec has teamed up with UK-based reactor manufacturer [Stoli Chem](#) to demonstrate a new range of continuous stirred tank reactors with Vapourtec. The capabilities of this reactor setup are demonstrated by the results obtained in a scaled-up biphasic Steven's oxidation reaction yielding 1.4 kg/day.

[Read More](#)

Events



Flow Chemistry India

14th – 15th September 2023

Mumbai – India

Join Vapourtec at the Flow Chemistry India exhibition on 14th and 15th September. Vapourtec's dedicated chemical engineer, Ben Showell, will be at location E8, eager to share insights and showcase the E-Series.

[Find out more >>>](#)



14th Edition CFRT

27th - 28th September 2023

Dublin – Ireland

CSO Dr. Nuño will attend and showcase cutting-edge technologies, including the RS-400 at the 14th CFRT symposium at the prestigious Portmarnock Hotel in Dublin, Ireland. Dr. Nuño will be located at table 17 in the exhibition area.

[Find out more >>>](#)



5th – 6th October 2023

Tokyo – Japan

Join Vapourtec at the Flow Chemistry Asia exhibition on 5th and 6th October. Discover cutting-edge technologies, discuss challenges, and explore solutions for successful flow chemistry-based reactions. .

[Find out more >>>](#)



Lab Innovations

1st – 2nd October 2023

NEC Birmingham – UK

Lab Innovations returns to the NEC, Birmingham on 1st & 2nd November 2023, bringing the entire laboratory industry together once again .

[Find out more >>>](#)



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precision flow chemistry

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