

FULLFLOW

Spring Newsletter

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Welcome to the Spring 2024 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](#) | [Application notes](#) | [Events](#) | [Publications](#)

Product News

Photochemical add-on for CSTR module

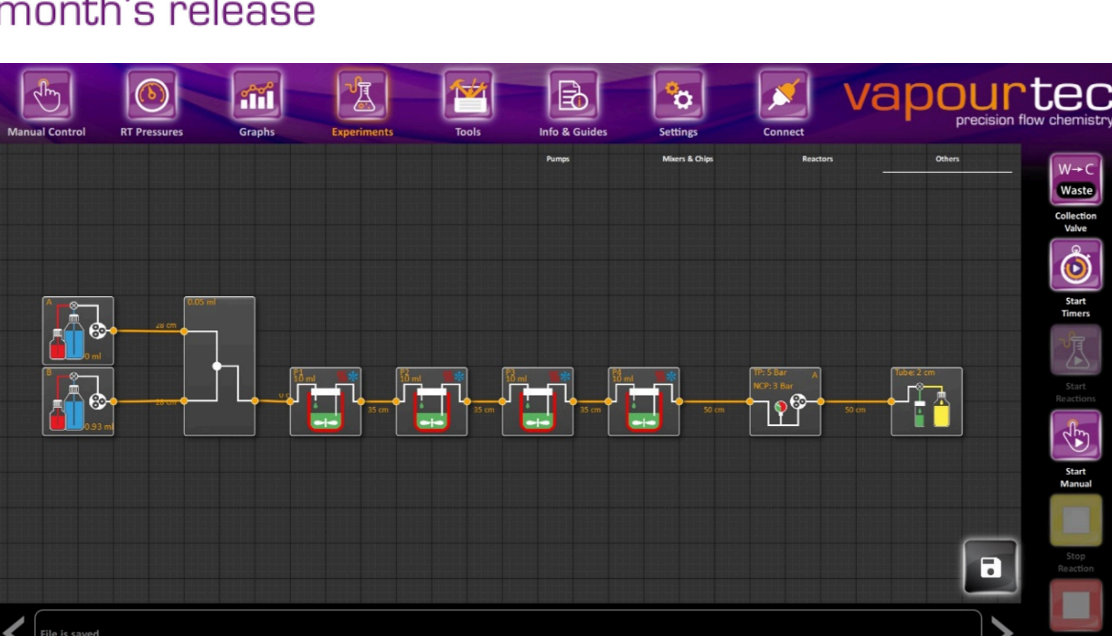


Vapourtec's Continuous Stirred-Tank Reactor (CSTR) module is now even more versatile with the addition of an LED option for photochemistry. Easily integrated with the R-Series and E-Series flow chemistry systems, this add-on expands their capabilities in two ways:

- It allows the CSTR to undertake reagentless photochemical reactions
- It expands the scope of continuous flow photochemistry by improving the ability to handle solids.

[Learn More](#)

R-Series software: Exciting new features in this month's release



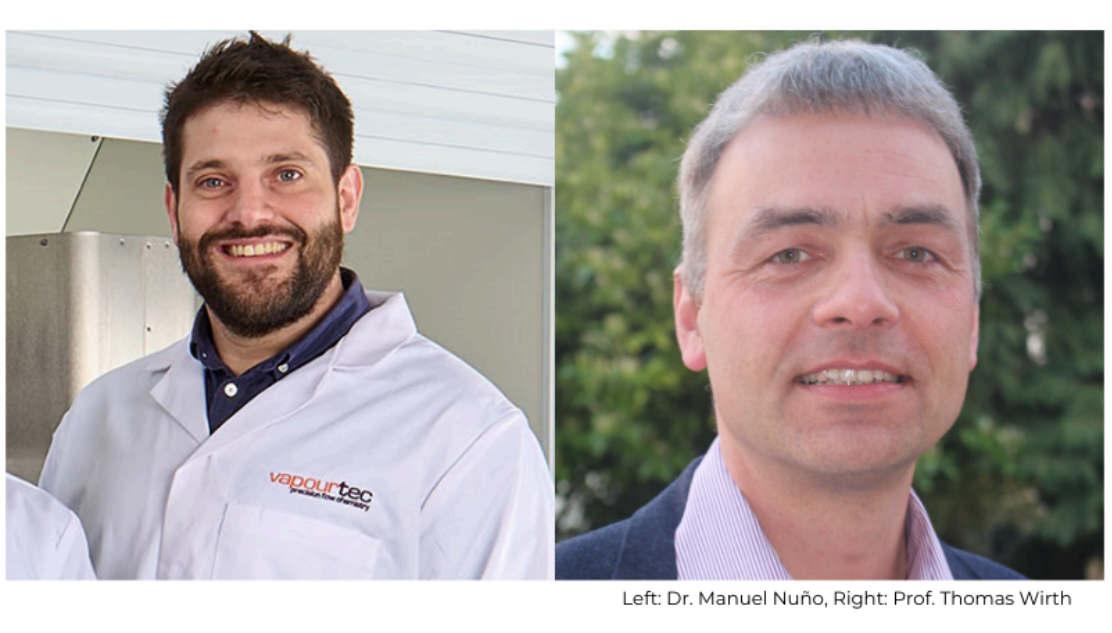
In 2021, Vapourtec made the brave decision to replace its industry-leading Flow Commander flow chemistry software with a new modern user interface named R-Series software. This month we are excited to release R-Series software Stage 4. The new features include:

- Increased modularity for the R-Series system: E-Series pumps and reactors can be seamlessly incorporated into the R-Series software
- New reactor type supported - CSTR
- Remote desktop
- Improved file handling and security

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Latest News

Interview with Prof. Thomas Wirth on recent flow electrochemistry breakthrough

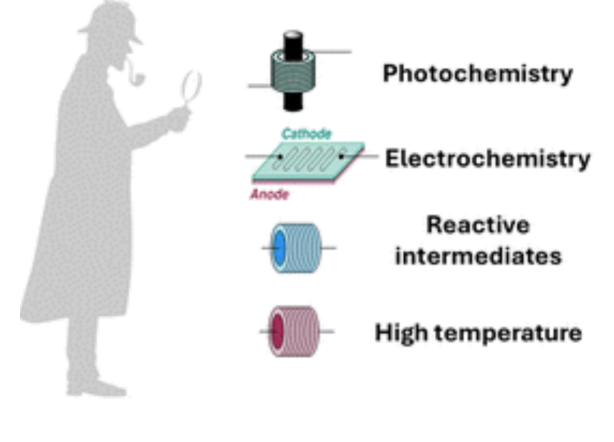


Left: Dr. Manuel Nuño, Right: Prof. Thomas Wirth

Vapourtec Chief Scientific Officer Manuel Nuño recently met with Prof. Thomas Wirth at the Flow Chemistry European Summit 2024 in Rotterdam, and it was the perfect occasion to ask him some questions about a recent high-profile publication in Science Advances entitled "Electric field-assisted anion-π catalysis on carbon nanotubes in electrochemical microfluidic devices".

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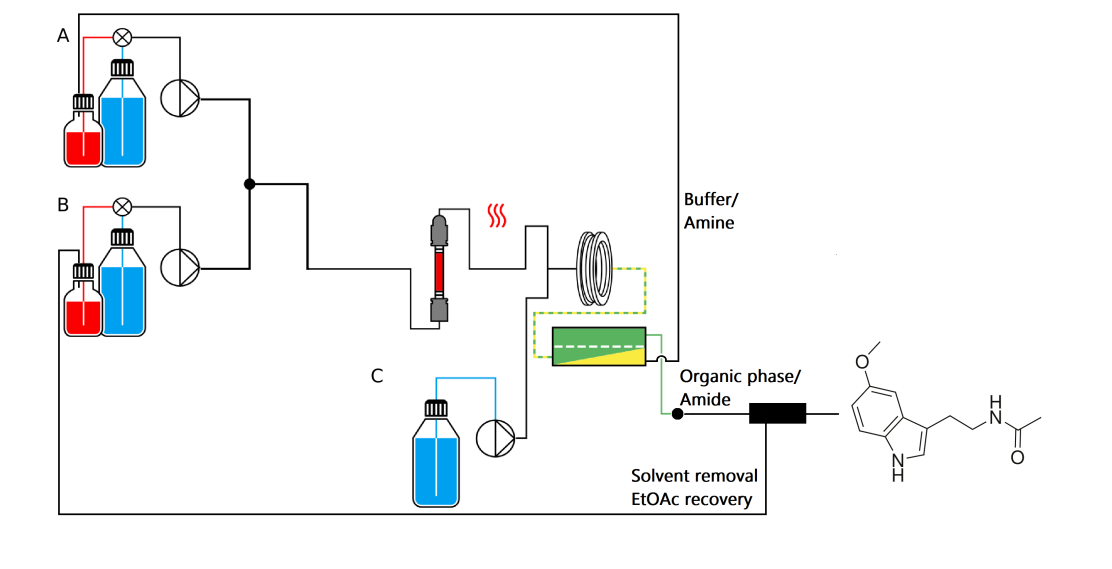
Continuous flow synthesis enabling reaction discovery



If you haven't already, we highly recommend that you read a recent publication by the Baumann and Ley groups, reviewing the role flow chemistry can have in new reaction discovery compared to batch chemistry. This review focuses specifically on four types of chemical processes – photochemistry, electrochemistry, high temperature reactions, and reactive intermediate reactions – where continuous flow has led to the discovery of many new reactions and reactivity patterns.

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Application Notes



Application Note 76: Enzymatic synthesis of melatonin in flow

Melatonin is a hormone that regulates the human's body sleep cycle and it is prescribed as insomnia relief medication. This application note demonstrates how the Paradisi Research Group synthesised melatonin under very mild conditions in decagram scale via an enzymatic process. By packing an immobilised enzyme acetyltransferase from Mycobacterium smegmatis (MsACT), melatonin was synthesised with a throughput of 37 g/day.

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Events

6th Flow Chemistry and Continuous processing conference
2nd - 3rd May 2024
Boston - USA
Attending: Operations Manager Chris Butters
[Find out more >>>](#)

ACHEMA 2024
10th - 14th June 2024
Frankfurt - Germany
Speaking: CSO Dr. Manuel Nuño
[Find out more >>>](#)

SCS Seminar on Flow and Process Chemistry 2024
13th - 14th June 2024
Fribourg - Switzerland
Attending: CSO Dr. Manuel Nuño
[Find out more >>>](#)

IOPC 2024
25th - 26th June 2024
Milan - Italy
Speaking: Research Scientist Victoire Laude
[Find out more >>>](#)

Publications

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



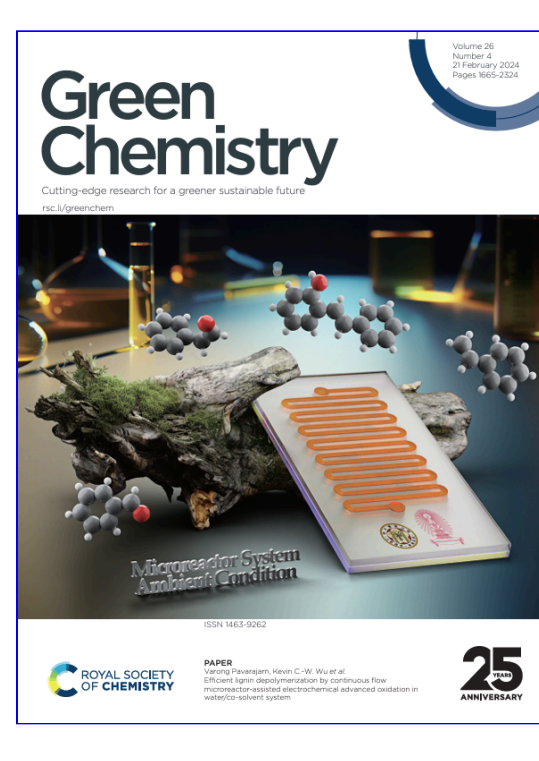
A dynamic knowledge graph approach to distributed self-driving laboratories
[Click to view](#)



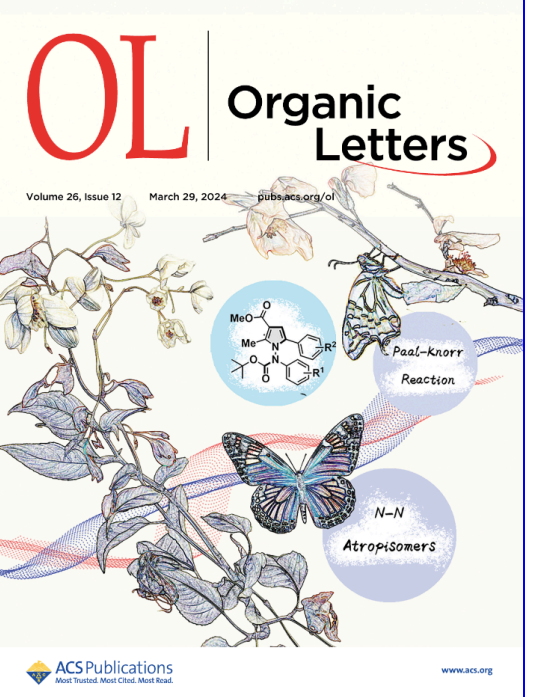
Establishment and Development of Organolithium-Mediated Continuous Flow Process for Intermediate of Canagliflozin
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Biphasic organic synthesis with continuous electro-flow
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Rapid production of the anaesthetic meprivacaine through continuous, portable technology
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Continuous Flow Synthesis of Benzotriazin-4(3H)-ones via Visible Light Mediated Nitrogen-Centered Norrish Reaction
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Flow Chemistry for Synthesis of 2-(C-Glycosyl) acetates from Pyranoses via Tandem Wittig and Michael Reactions
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