

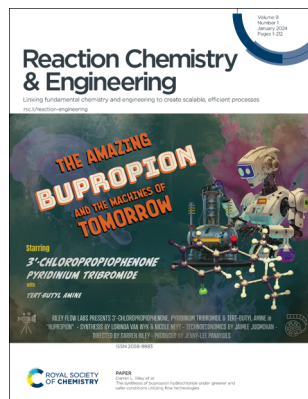
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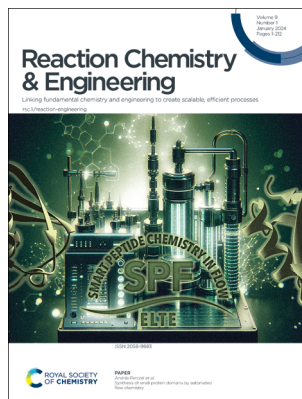
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IN THIS ISSUE

ISSN 2058-9883 CODEN RCEEBW 9(1) 1-212 (2024)



Cover
See Darren L. Riley *et al.*, pp. 45–57.
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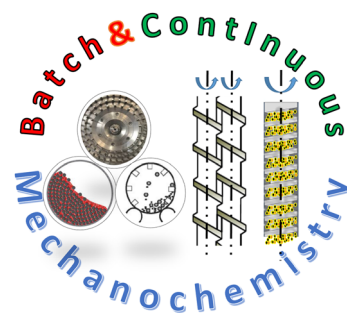
Inside cover
See András Perczel *et al.*, pp. 58–69.
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REVIEW

10

Batch and continuous flow mechanochemical synthesis of organic compounds including APIs

Ranjit S. Atapalkar and Amol A. Kulkarni*



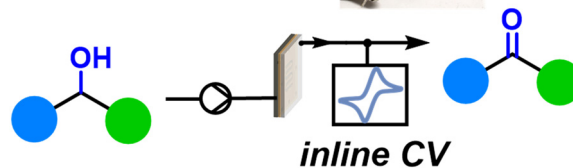
COMMUNICATIONS

26

Development of an open-source flow-through cyclic voltammetry cell for real-time inline reaction analytics

Eduardo Rial-Rodríguez, Jason D. Williams, Hans-Michael Eggenweiler, Thomas Fuchss, Alena Sommer, C. Oliver Kappe and David Cantillo*

- ✓ flow cyclic voltammetry
- ✓ reaction monitoring
- ✓ rapid analysis



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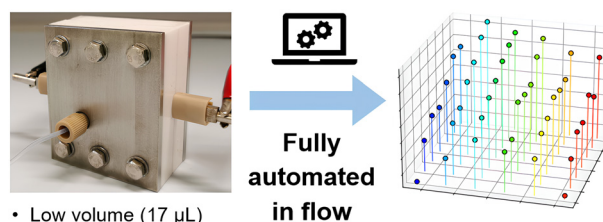
Registered charity number: 207890

COMMUNICATIONS

31

A low-volume flow electrochemical microreactor for rapid and automated process optimization

Eduardo Rial-Rodríguez, Johannes F. Wagner, Hans-Michael Eggenweiler, Thomas Fuchss, Alena Sommer, C. Oliver Kappe, Jason D. Williams* and David Cantillo*



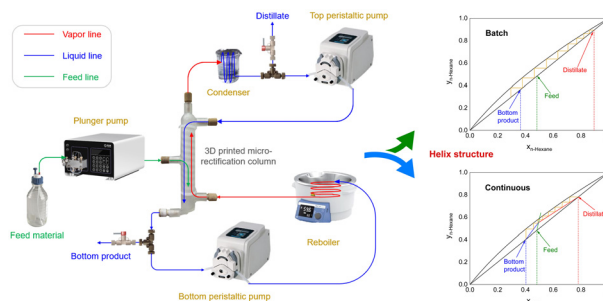
Fully automated in flow

- Low volume (17 μL)
 - Fast reactions (7 s)
 - Low reagent consumption
- ✓ 42 reactions per run
✓ 3 chemical examples

37

Design and evaluation of a microrectification platform using 3D printing

Yuting Zheng, Guandong Fang, Zhuoqin Fan, Haomiao Zhang,* Jingdai Wang and Yongrong Yang

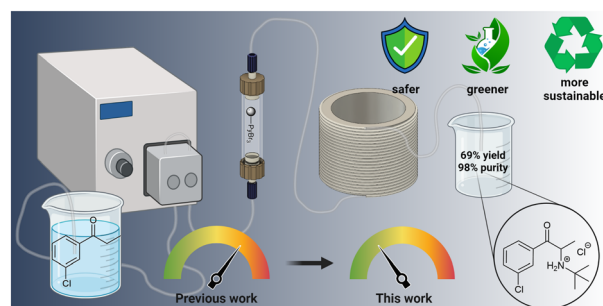


PAPERS

45

The synthesis of bupropion hydrochloride under greener and safer conditions utilizing flow technologies

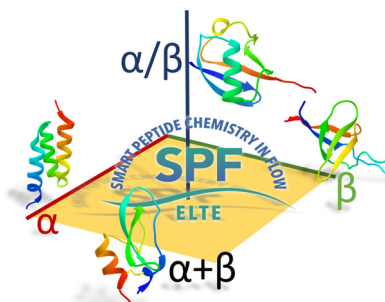
Lorinda T. van Wyk, Nicole C. Neyt, Jaimee Jugmohan, Jenny-Lee Panayides and Darren L. Riley*



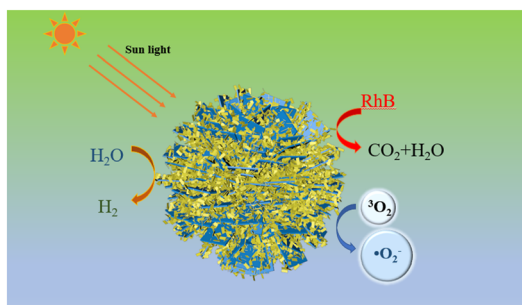
58

Synthesis of small protein domains by automated flow chemistry

Kristóf Ferentzi, Dóra Nagy-Fazekas, Viktor Farkas and András Perczel*



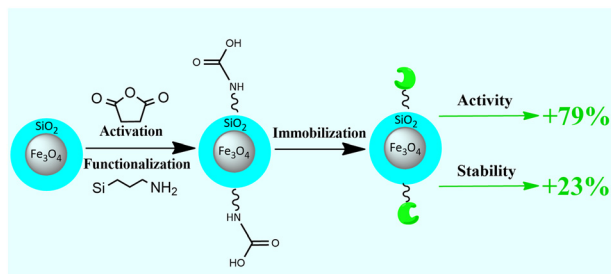
70



An investigation on a $\text{WO}_3/\text{MoO}_{3-x}$ heterojunction photocatalyst for excellent photocatalytic performance and enhanced molecular oxygen activation ability

Yuxuan Shao, Dan You,* Yuqi Wan, Qingrong Cheng* and Zhiquan Pan

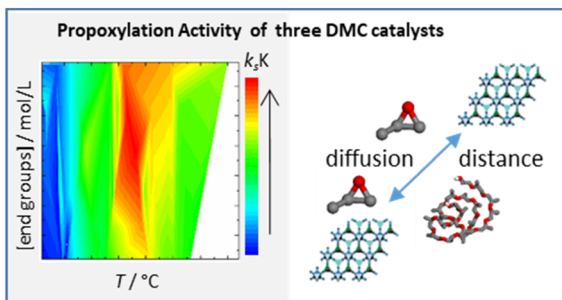
82



Improvement of DERA activity and stability in the synthesis of statin precursors by immobilization on magnetic nanoparticles

Dino Skendrović, Anera Švarc, Tonči Rezić, Andrey Chernev, Aleksandra Rađenović and Ana Vrsalović Presečki*

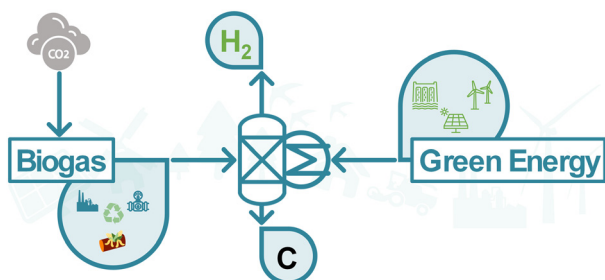
91



Analysis of propoxylation with zinc-cobalt double metal cyanide catalysts with different active surfaces and particle sizes

Sarah-Franziska Stahl and Gerrit A. Luinstra*

108



Pyrolysis of biogas for carbon capture and carbon dioxide-free production of hydrogen

Ahmet Çelik, Iadh Ben Othman, Heinz Müller, Patrick Lott* and Olaf Deutschmann



119

LearnCK: mass conserving neural network reduction of chemistry and species of microkinetic models

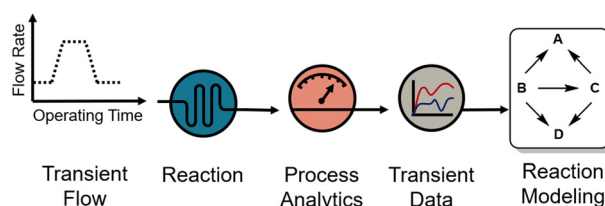
Sashank Kasiraju and Dionisios G. Vlachos*



132

Dynamic experiments in flow accelerate reaction network definition in a complex hydrogenation using catalytic static mixers

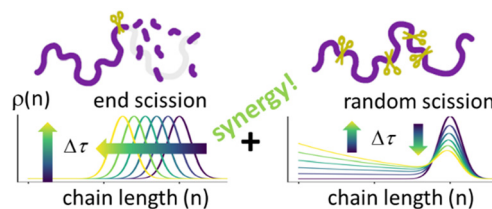
Stefano Martinuzzi, Markus Tranninger, Peter Sagmeister, Martin Horn, Jason D. Williams* and C. Oliver Kappe*



139

Quantifying synergy for mixed end-scission and random-scission catalysts in polymer upcycling

Ziqiu Chen, Emmanuel Ejiogu and Baron Peters*



Slowly, slowly, slowly getting faster...

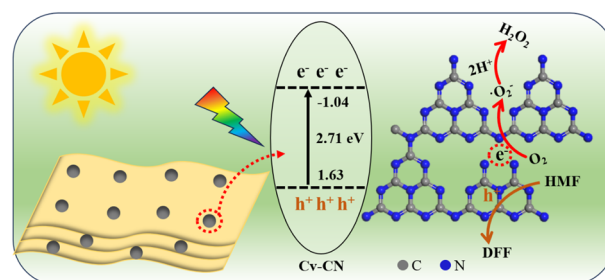
Faster, faster, it is so exciting...

- the Count, Sesame Street

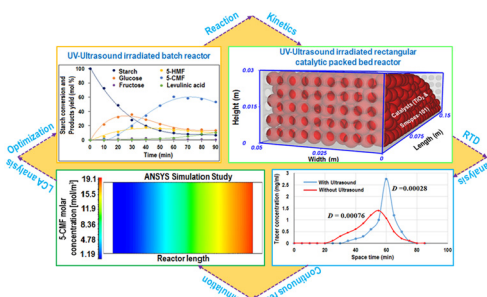
148

Carbon-vacancy engineering approach to g-C₃N₄ for selective 5-hydroxymethylfurfural oxidation coupled with H₂O₂ production

Jingru Han, Mengzhen Song, Yingjie Li, Yue Yao, Shuxiang Lu and Xiaoyuan Liao*



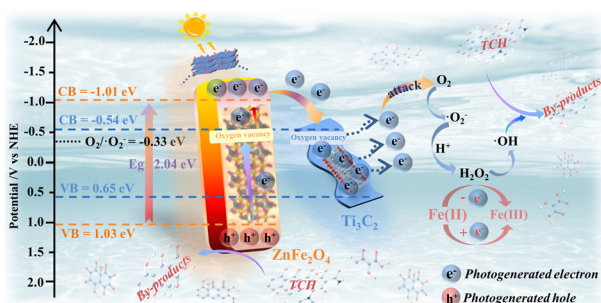
160



Energy-efficient and eco-friendly continuous production of 5-CMF in a UV-ultrasound irradiated catalytic packed bed reactor: heterogeneous kinetics, reactor simulation and LCA analysis

Sourav Barman and Rajat Chakraborty*

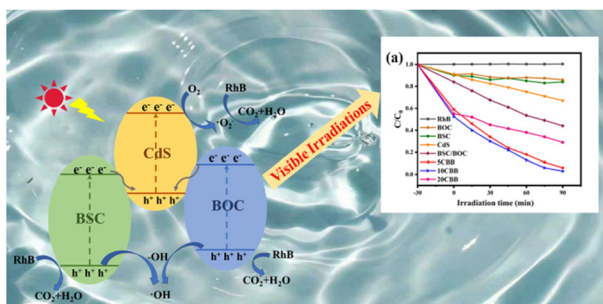
172



Preparing Ti_3C_2 -modified ZnFe_2O_4 photocatalytic materials and evaluating their performance in degrading tetracycline in water

Hongqing He, Yu Fang, Xinhao Sun, Xianbin Li, Shunzhi Li and Yang Cao*

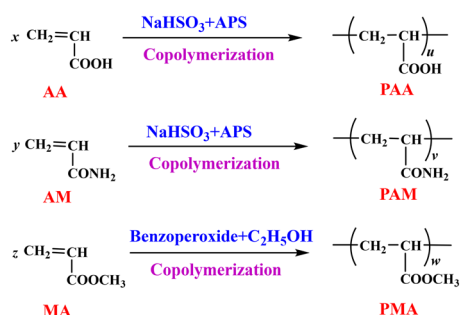
186



Synthesis of double Z-scheme $\text{CdS}/\text{Bi}_2\text{O}_2\text{CO}_3/\text{BiOCl}$ heterojunction photocatalysts for degradation of rhodamine B under visible light

Yueyi Li, Yuehui Liu, Xuguang Liu and Xia Li*

199



Catalytic Mannich reaction of acrylic acid polymers and their application in leather retanning

Jianzhong Ma,* Jiamin Zhao, Hui Zhang, Zhenhua Tian,* Qiwu Liu, Na Yang and Wenbo Zhang



CORRECTION

209

Correction: From traditional to greener alternatives: potential of plant resources as a biotransformation tool in organic synthesis

Vinay Kumar, Rituparna Saha, Satyaki Chatterjee* and Vivek Mishra*

