

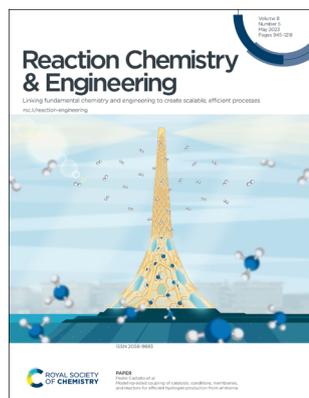
# Reaction Chemistry & Engineering

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## IN THIS ISSUE

ISSN 2058-9883 CODEN RCEEBW 8(5) 945-1218 (2023)



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Maximilian O. Besenhard, Sayan Pal, Georgios Gkogkos and Asterios Gavriilidis\*

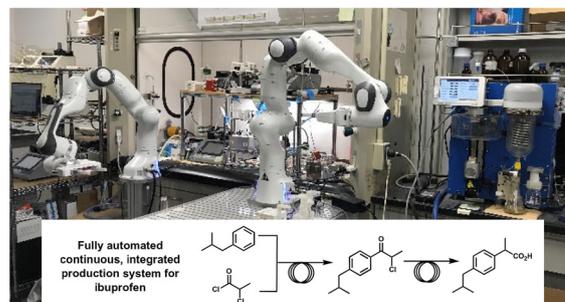


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### Development of a fully automated continuous, integrated production system for all reaction processes of ibuprofen

Akichika Itoh,\* Tomoka Tanemura, Norihiro Tada and Eiji Yamaguchi



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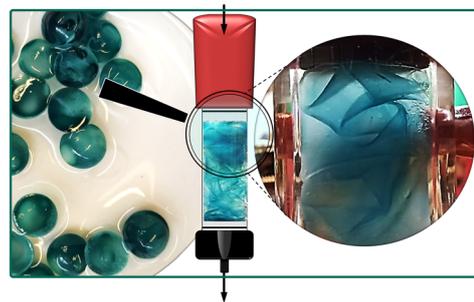


## COMMUNICATIONS

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### A 3D printable synthetic hydrogel as an immobilization matrix for continuous synthesis with fungal peroxygenases

Lars-Erik Meyer, Dorottya Horváth, Sonja Vaupel, Johanna Meyer, Miguel Alcalde and Selin Kara\*

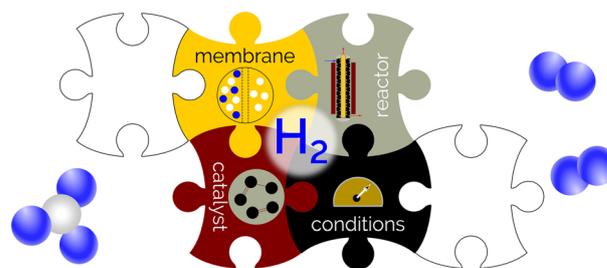


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### Modeling-aided coupling of catalysts, conditions, membranes, and reactors for efficient hydrogen production from ammonia

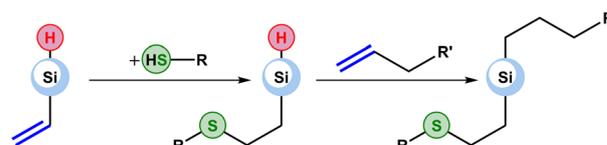
Natalia Realpe, Shekhar R. Kulkarni, Jose L. Cerrillo, Natalia Morlanés, Gontzal Lezcano, Sai P. Katikaneni, Stephen N. Paglieri, Mohammad Rakib, Bandar Solami, Jorge Gascon and Pedro Castaño\*



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### Sequential hydrothiolation–hydrosilylation: a route to the creation of new organosilicon compounds with preset structures

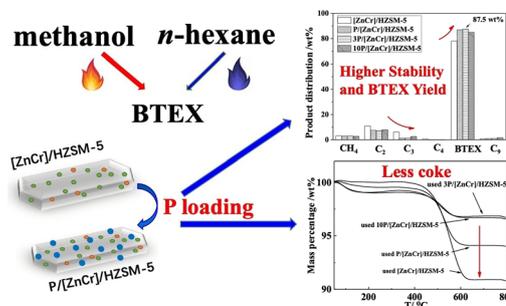
Ilya Krizhanovskiy, Maxim Temnikov,\* Fedor Drozdov, Alexander Peregudov and Anton Anisimov



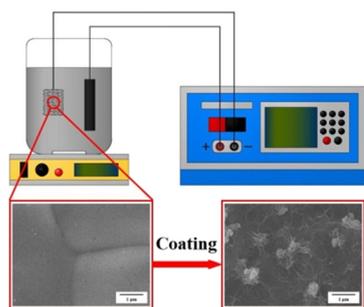
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### Enhanced aromatics selectivity and stability in a coaromatization reaction over P/[ZnCr]/HZSM-5

Junmin Lv, Dan Wang, Bing Zhu, Haibo Li, Subing Fan\* and Tian-sheng Zhao



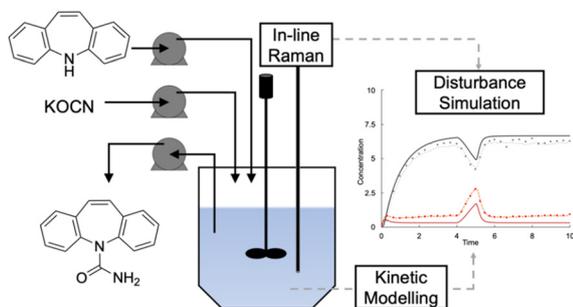
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### Electrodeposition of activated carbon on Ni foam for monolithic catalysts and intensification of hydrogenation performance in a micropacked bed

Chi Ma, Wei Liu, Fengyan Lou, Chenghao Zhang and Jisong Zhang\*

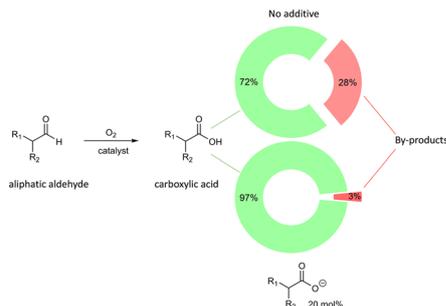
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### Development of a continuous synthesis process for carbamazepine using validated in-line Raman spectroscopy and kinetic modelling for disturbance simulation

Matthew Glace, Wei Wu, Harrison Kraus, David Acevedo, Thomas D. Roper and Adil Mohammad\*

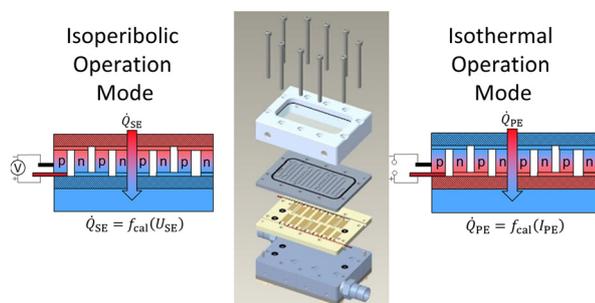
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### Selective aerobic oxidation of aliphatic aldehydes: the critical role of percarboxylate anion on the selectivity

Laurent Vanoye and Alain Favre-Régouillon\*

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### Design and characterization of a flow reaction calorimeter based on FlowPlate® Lab and Peltier elements

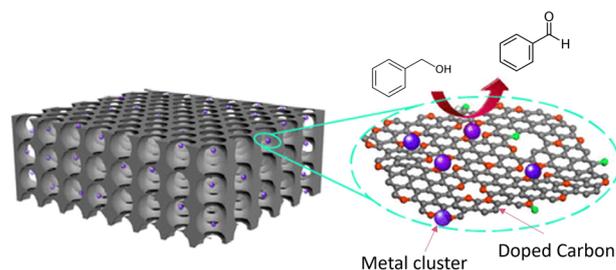
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### Enhanced activation of persulfate improves the selective oxidation of alcohols catalyzed by earth-abundant metal oxides embedded on porous N-doped carbon derived from chitosan

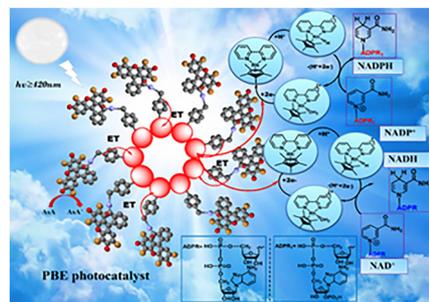
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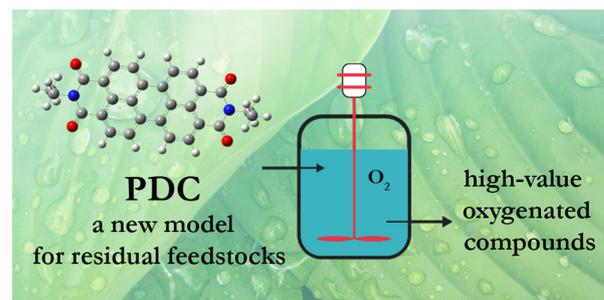
Pooja Singh, Surabhi Chaubey, Chandani Singh, Satyam Singh, Rajesh K. Yadav,\* Atul P. Singh, P. D. Subhash, Dhanesh Tiwari, Navneet K. Gupta and Tae Wu Kim\*



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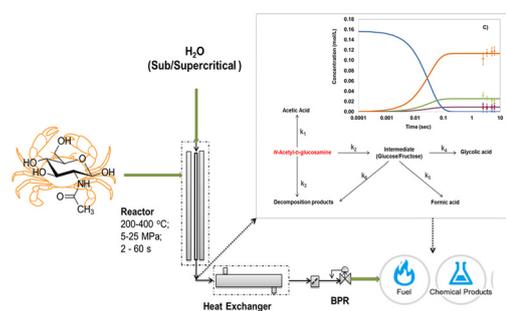
Redhwan Al-Akbari, Maryam Razi, Ismail Badran and Nashaat N. Nassar\*



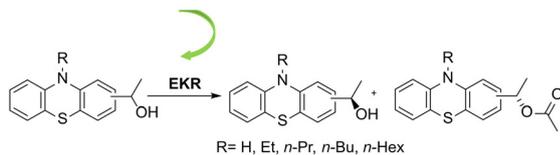
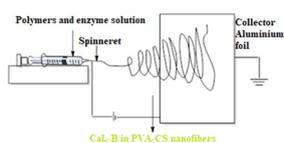
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Sphurti P. Kulkarni, Sunil S. Joshi and Amol A. Kulkarni\*



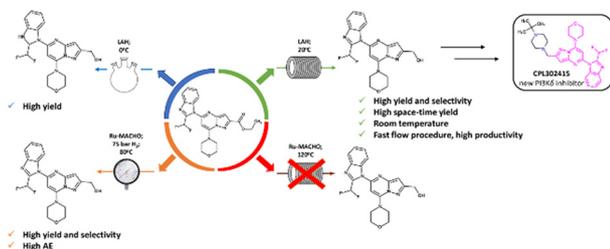
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## A robust and efficient lipase based nanobiocatalyst for phenothiazinyl-ethanol resolution

Cristina-Georgiana Spelmezan, Gabriel Katona, László Csaba Bencze, Csaba Paizs and Monica Ioana Toşa\*

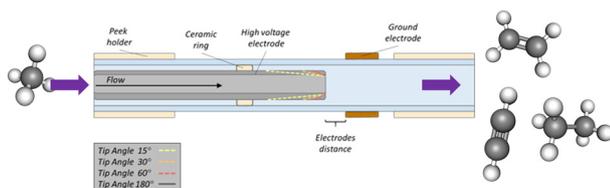
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Stanisław Michatek,\* Anna M. Maj,\* Lidia Gurba-Bryśkiewicz, Wioleta Maruszak, Marcin Zagozda, Zbigniew Ochal, Krzysztof Dubiel and Maciej Wieczorek

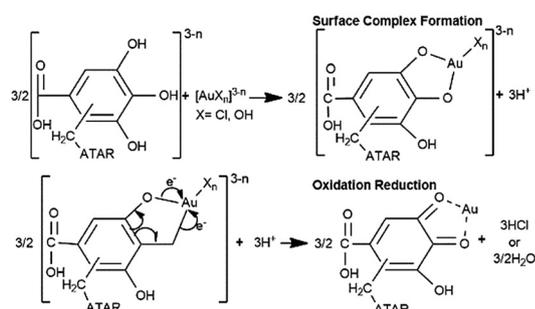
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## On design of plasma jet reactor for non-oxidative methane conversion

Giulia De Felice, Sirui Li,\* Fausto Gallucci, Nima Pourali and Evgeny Rebrov

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## Synthesis of an ethylene diamine modified tannin polymer and recovery of gold(III) ions from electronic wastes

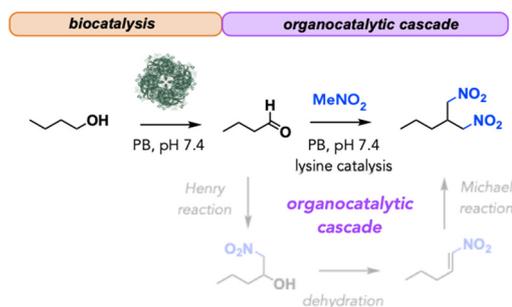
Engin Deniz Parlar, Özge Özten, Abdulkadir Kızılaslan and Mustafa Can\*



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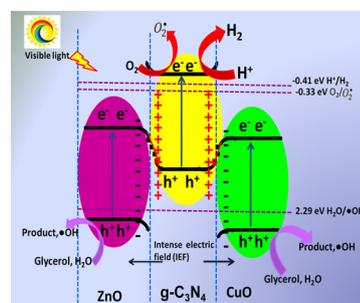
Kelsey N. Stewart, Kendyll G. Hawkins,  
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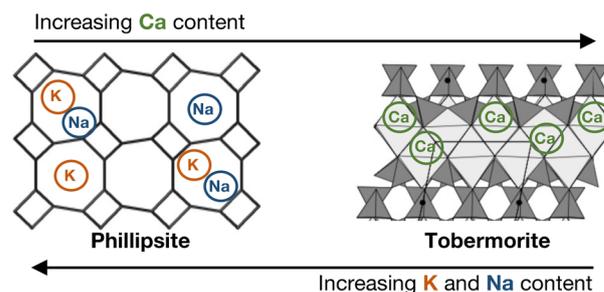
Irshad Ahmad,\* Shazia Shukrullah, Muhammad Yasin Naz  
and Haq Nawaz Bhatti



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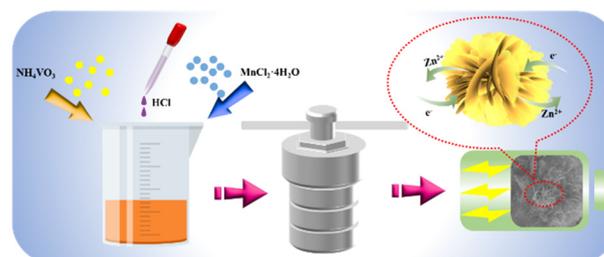
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Dale P. Prentice, Shiqi Dong, Longwen Tang,  
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Mathieu Bauchy, Samanvaya Srivastava,\* Gaurav Sant  
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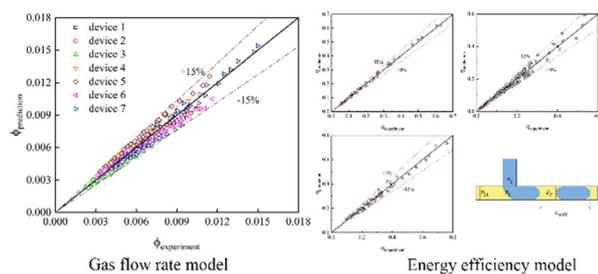
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Lingjiang Kou, Yong Wang, Jiajia Song,\* Taotao Ai,\*  
Koji Kajiyoshi,\* Panya Wattanapaphawong  
and Jintao Wang



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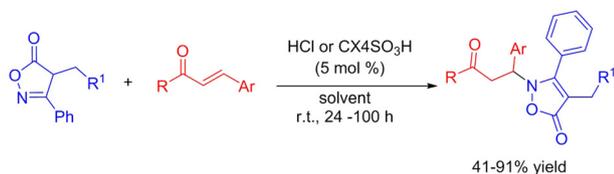


To design gas-liquid Taylor flow T-junction microreactor

## A general design procedure for gas-liquid Taylor flow T-junction microreactors

Yu Chang, Lin Sheng, Jian Deng and Guangsheng Luo\*

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## On the Brønsted acid-catalyzed aza-Michael reaction of isoxazol-5-ones to enones: reaction optimization, scope, mechanistic investigations and scale-up

Marcelo M. de Siqueira, Pedro P. de Castro,\*  
Juliana A. dos Santos, Leonã S. Flores,  
Walysson F. de Paiva, Sergio A. Fernandes  
and Giovanni W. Amarante\*

