

# Reaction Chemistry & Engineering

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## IN THIS ISSUE

ISSN 2058-9883 CODEN RCEEBW 8(12) 2941-3212 (2023)



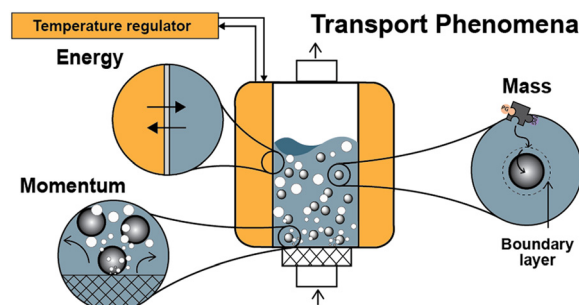
**Cover**  
See Kalina Peneva, Dirk Ziegenbalg *et al.*, pp. 2967–2983.  
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## REVIEW

2951

### Transport phenomena in solid phase synthesis supported by cross-linked polymer beads

Sebastián Pinzón-López, Mathias Kraume, José Dangelad-Flores\* and Peter H. Seeberger

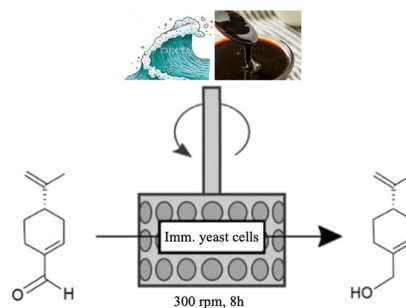


## COMMUNICATION

2963

### Boosting the catalytic performance of a marine yeast in a SpinChem® reactor for the synthesis of perillyl alcohol

Silvia Donzella, Concetta Compagno, Francesco Molinari, Francesca Paradisi\* and Martina Letizia Contente\*



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Reaction Chemistry & Engineering (electronic: ISSN 2058-9883) is published 12 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

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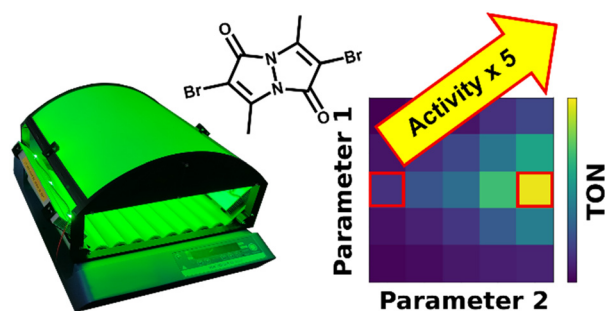
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2967

## Making photocatalysts screenable – a milliscale multi-batch screening photoreactor as extension for the modular photoreactor

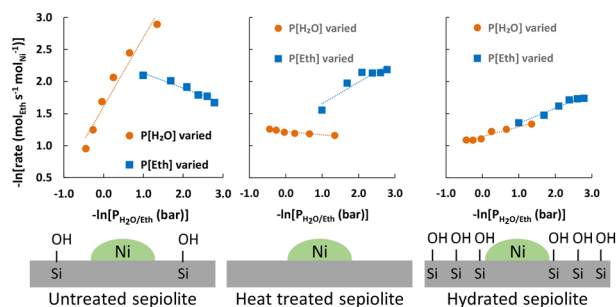
Daniel Kowalczyk, Gergely Knorr, Kalina Peneva\* and Dirk Ziegenbalg\*



2984

## Investigation of support effects during ethanol steam reforming over a Ni/sepiolite catalyst

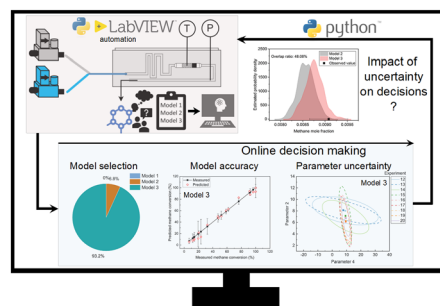
Marinela D. Zhurka, James A. Anderson, Alan J. McCue, Angeliki A. Lemonidou and Panagiotis N. Kechagiopoulos\*



3000

## Autonomous kinetic model identification using optimal experimental design and retrospective data analysis: methane complete oxidation as a case study

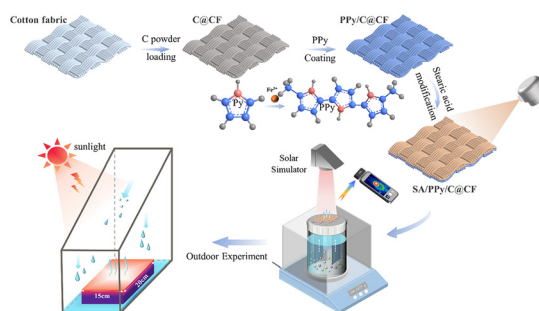
Arun Pankajakshan, Solomon Gajere Bawa, Asterios Gavriilidis\* and Federico Galvanin\*



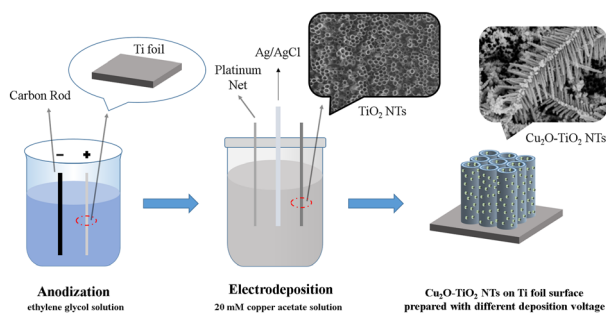
3018

## Salt-tolerant, scalable Janus fabric evaporators for desalination and multi-species wastewater purification

Zhi-Jie Zhang, Zhi-Bo Zhang, Jun Zeng, Shan Ma, Min Chen, Dan Zhou, Yong Yan, Zhi Chen,\* Cong-Ming Tang and Jun-Qiang Xu



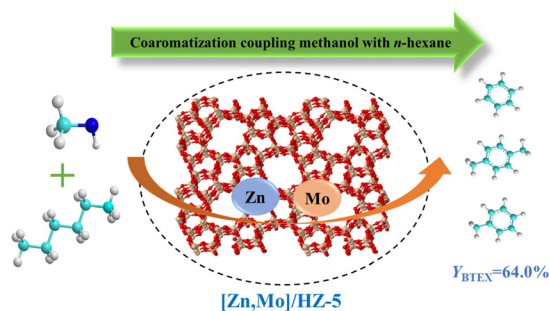
3028



### Fabrication of $\text{Cu}_2\text{O}$ -loaded $\text{TiO}_2$ nanotubes with heterojunctions *via* an electrochemical method: enhanced photocatalytic activity

Peng Qiao, Xueqin Wang,\* Jiangling Liu, Yanxiu Liu,\* Man Dai, Rui Piao, Ying Liu, Wenyi Wang, Yuanyuan Wang and Hua Song

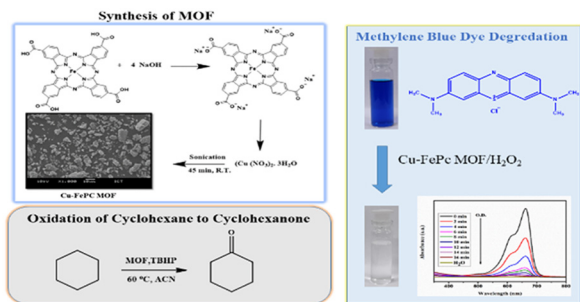
3037



### Influence of Mo modification on coaromatization coupling methanol with *n*-hexane over $[\text{Zn},\text{Mo}]/\text{HZSM-5}$ catalysts

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

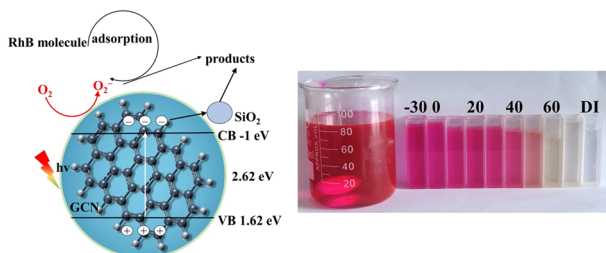
3046



### Green synthesis of the copper and iron phthalocyanine-based metal-organic framework as an efficient catalyst for methylene blue dye degradation and oxidation of cyclohexane

Rupali S. Bhise, Yogesh A. Patil and Ganapati S. Shankarling\*

3060



### Efficient photocatalytic degradation of ultra-high concentration printing and dyeing wastewater using a $\text{SiO}_2/\text{GCN}$ nanocomposite

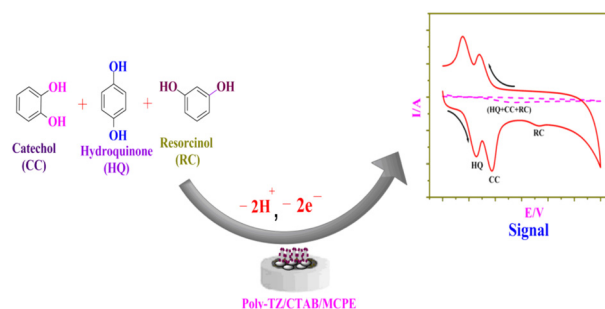
Jinyuan Zhu, Yingying Zhu,\* Yifan Zhou, Chaoran Li, Geng Chen and Xinbao Li



3071

### Synergetic effects of a poly-tartrazine/CTAB modified carbon paste electrode sensor towards simultaneous and interference-free determination of benzenediol isomers

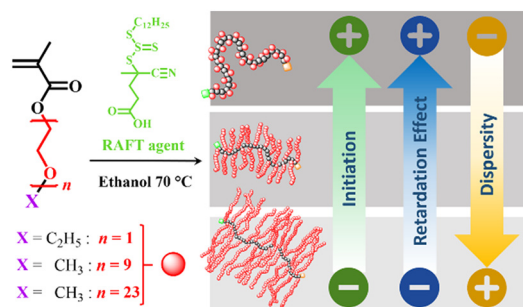
Amit B. Teradale, Kailash S. Chadchan, Pattan-Siddappa Ganesh, Swastika N. Das\* and Eno E. Ebenso



3082

### PEGMA<sub>s</sub> with short and long side chains: what is the effect in the formation of stars and brushes by RAFT polymerization?

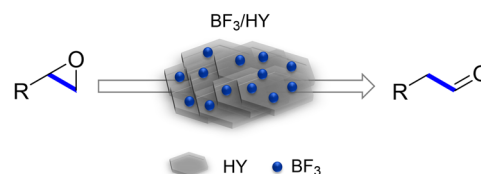
Priscila Quiñonez-Angulo, Claude St. Thomas, Hortensia Maldonado-Textle, Ángel Licea-Claverie, Enrique Saldívar-Guerra and Iván Zapata-González\*



3096

### BF<sub>3</sub>/HY as a microporous solid acid catalyst for regioselective ring-opening of epoxides

Yi-Xuan Yao, Hong-Wei Zhang, Chang-Bo Lu, Xue Wang, Shi-Dong Zhao, Hong-Yan Shang\* and Yuan-Yu Tian\*

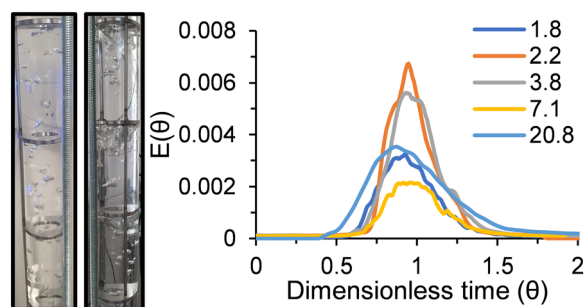


- ✓ microporous solid acid catalyst
- ✓ recyclability and stability
- ✓ high selectivity for aldehydes
- ✓ 25 examples up to 99% yield

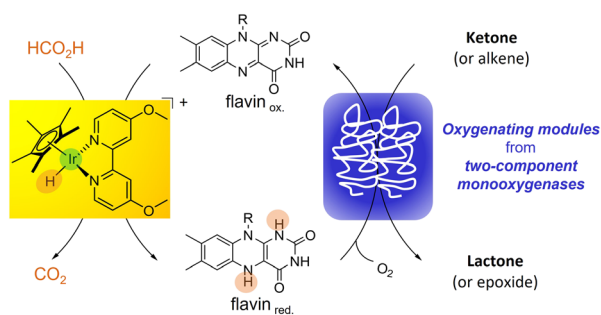
3104

### Characterising flow with continuous aeration in an oscillatory baffle flow reactor using residence time distribution

Rylan Cox,\* Konstantinos Salonitis, Susan A. Impey and Evgeny Rebrov



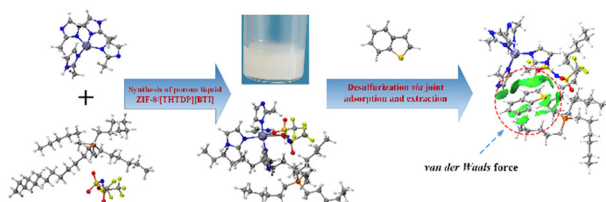
3117



### Hybrid catalysis for enantioselective Baeyer–Villiger oxidation and stereoselective epoxidation: a Cp\*Ir complex to fuel FMN and FAD reduction for flavoprotein monooxygenase modules

Robert Röllig,\* Caroline E. Paul, Pierre Rousselot-Pailley, Selin Kara\* and Véronique Alphand\*

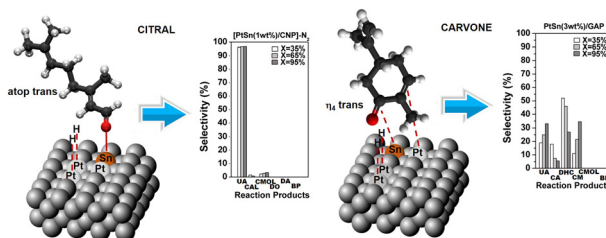
3124



### Desulfurization of diesel via joint adsorption and extraction using a porous liquid derived from ZIF-8 and a phosphonium-type ionic liquid

Chenhua Shu,\* Min Zhao, Hua Cheng, Yajie Deng, Pierre Stiernet, Niklas Hedin and Jiayin Yuan\*

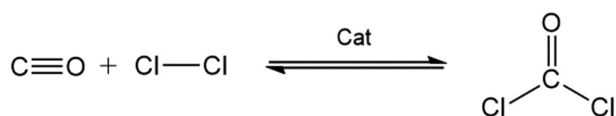
3133



### Hydrogenation of citral and carvone on Pt and PtSn supported metallic catalysts. A comparative study on the regioselectivity and chemoselectivity

Gustavo Enrique Ramos Montero,\* Julieta Paola Stassi, Sergio Rubén de Miguel and Patricia Daniela Zgolicz

3150



### Operational parameters relevant to the examination of phosgene synthesis catalysis

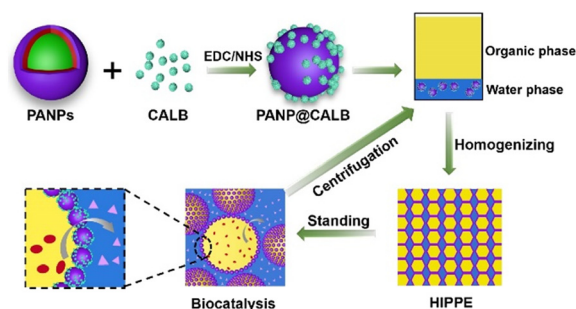
Rory Hughes, Giovanni E. Rossi and David Lennon\*



3162

### Enzyme-modified amphiphilic polymer nanoparticles as high-performance Pickering interface biocatalysts

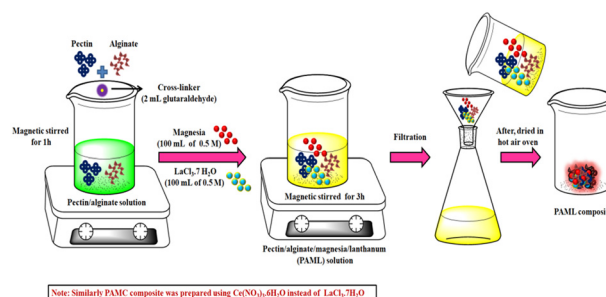
Zhengqiao Yin, Chuangbang Xu, Bowei Liu, Xiucui Liu and Shengmiao Zhang\*



3171

### Micro-encapsulation of rare earth metal ion-doped magnesia-based alginate/pectin hybrid polymeric composites for defluoridation of water

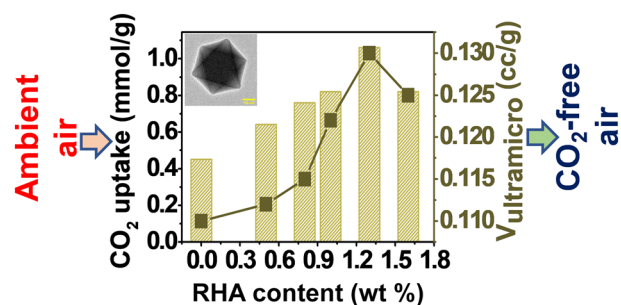
Antonyamy Jeyaseelan, Natrayasamy Viswanathan,\* Ilango Aswin Kumar and Mohammad Rafe Hatshan



3185

### Direct $\text{CO}_2$ capture from simulated and ambient air over silica-rich MIL-101(Cr)

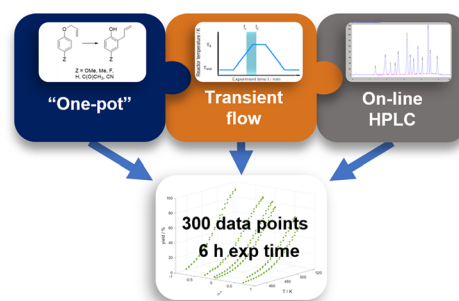
Vaishnavi Kulkarni and Sanjay Kumar Singh\*



3196

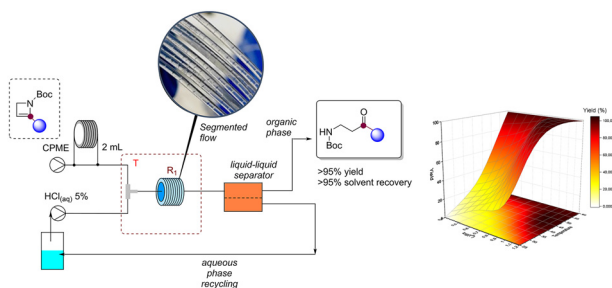
### An efficient multiparameter method for the collection of chemical reaction data via 'one-pot' transient flow

Linden Schrecker, Joachim Dickhaut, Christian Holtze, Philipp Staehle, Andy Wieja, Klaus Hellgardt and King Kuok (Mimi) Hii\*



## PAPERS

3203



### Sustainable continuous flow synthesis of $\beta$ -aminocarbonyls via acid-catalyzed hydration of *N*-Boc-2-azetines

Michael Andresini, Marco Colella, Roberta Savina Dibenedetto, Elena Graziano, Giuseppe Romanazzi, Andrea Aramini, Leonardo Degennaro\* and Renzo Luisi\*

## CORRECTION

3210

### Correction: Investigation of support effects during ethanol steam reforming over a Ni/sepiolite catalyst

Marinela D. Zhurka, James A. Anderson, Alan J. McCue, Angeliki A. Lemonidou and Panagiotis N. Kechagiopoulos\*

