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## IN THIS ISSUE

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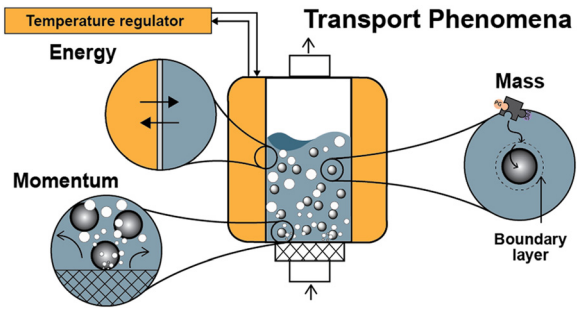
## REVIEW

2951

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

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

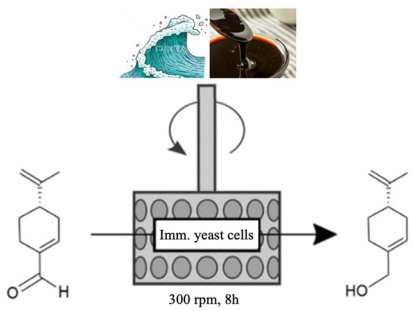



## COMMUNICATION

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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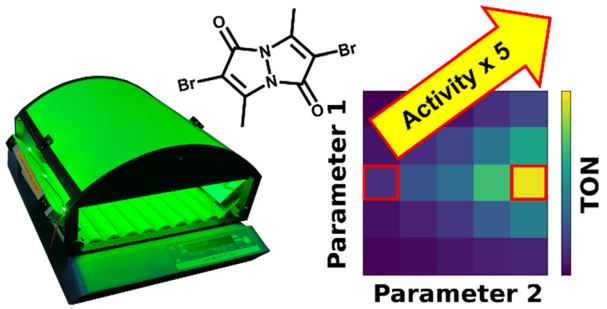
PAPERS

2967

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

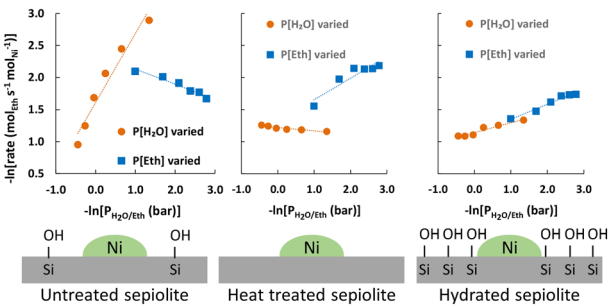
Daniel Kowalczyk, Gergely Knorr, Kalina Peneva* and Dirk Ziegenbalg*




2984

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

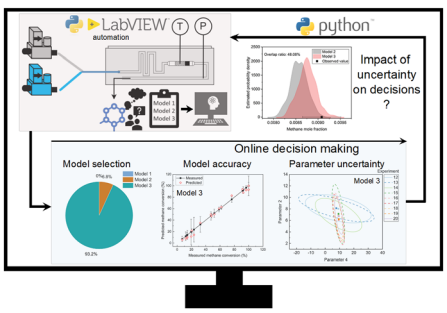
Marinela D. Zhurka, James A. Anderson, Alan J. McCue, Angeliki A. Lemonidou and Panagiotis N. Kechagiopoulos*




3000

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

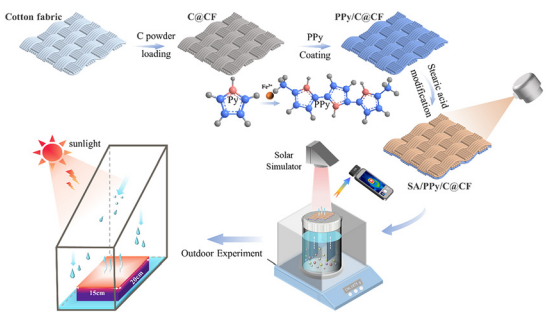
Arun Pankajakshan, Solomon Gajere Bawa, Asterios Gavriilidis* and Federico Galvanin*




3018

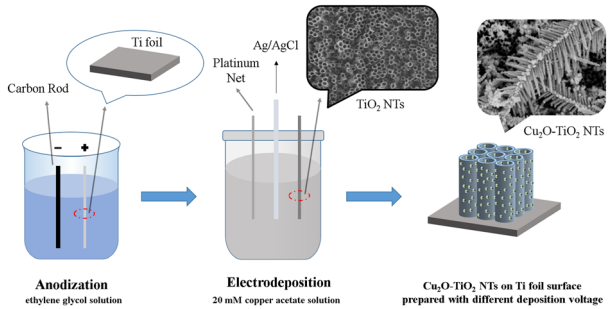
**Salt-tolerant, scalable Janus fabric evaporators for desalination and multi-species wastewater purification**

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



PAPERS

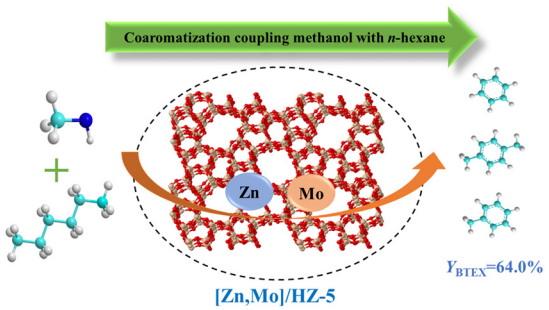
3028




## Fabrication of $Cu_2O$-loaded $TiO_2$ 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

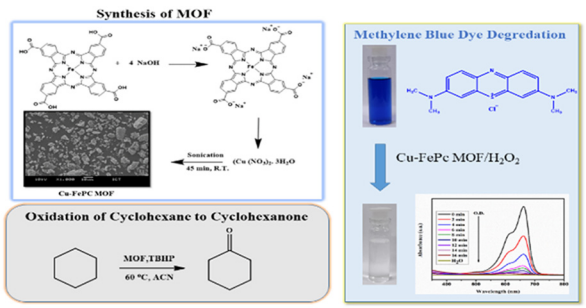
3037




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

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

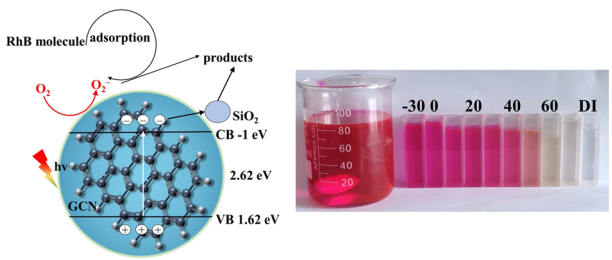
3046




## 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 $SiO_2$/GCN nanocomposite

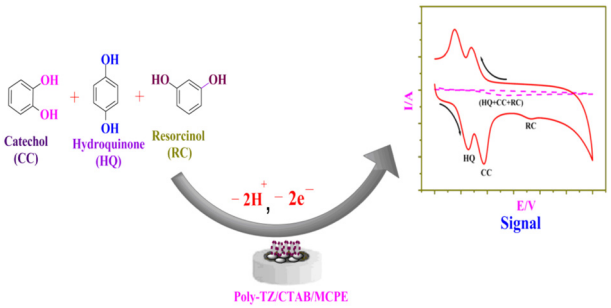
Jinyuan Zhu, Yingying Zhu,* Yifan Zhou, Chaoran Li, Geng Chen and Xinbao Li

PAPERS

3071

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

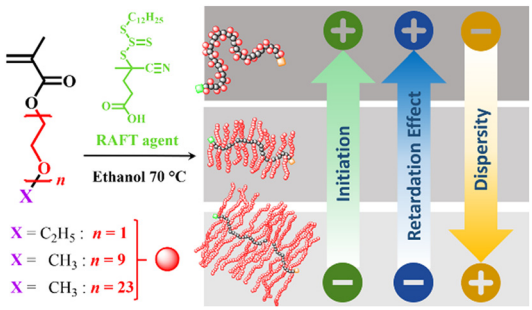
Amit B. Teradale, Kailash S. Chadchan, Pattan-Siddappa Ganesh, Swastika N. Das* and Eno E. Ebenso




3082

**PEGMAs with short and long side chains: what is the effect in the formation of stars and brushes by RAFT polymerization?**

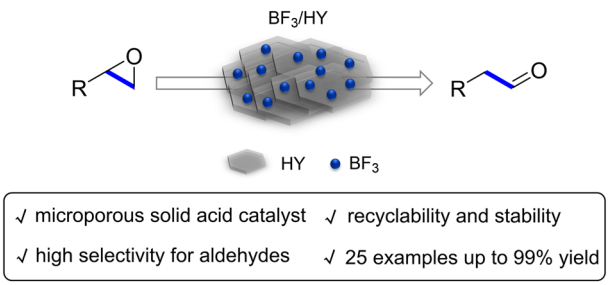
Priscila Quiñonez-Angulo, Claude St. Thomas, Hortensia Maldonado-Textle, Ángel Licea-Claverie, Enrique Saldívar-Guerra and Iván Zapata-González*




3096

**$BF_3$/HY as a microporous solid acid catalyst for regioselective ring-opening of epoxides**

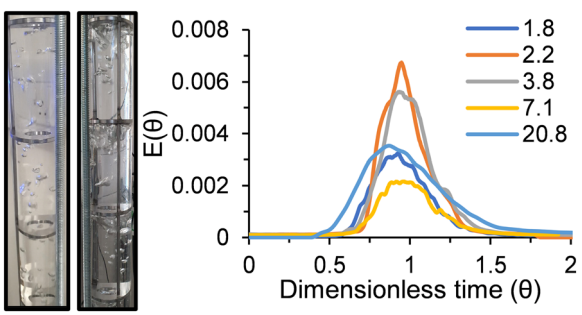
Yi-Xuan Yao, Hong-Wei Zhang, Chang-Bo Lu, Xue Wang, Shi-Dong Zhao, Hong-Yan Shang* and Yuan-Yu Tian*




3104

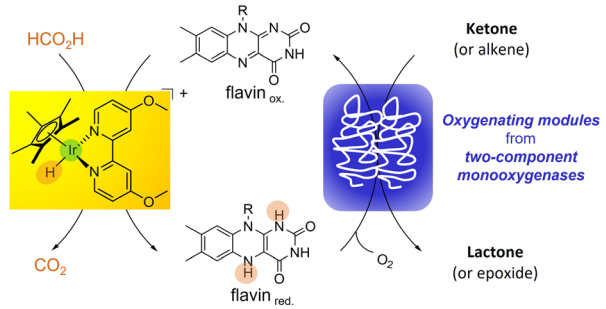
**Characterising flow with continuous aeration in an oscillatory baffle flow reactor using residence time distribution**

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



PAPERS

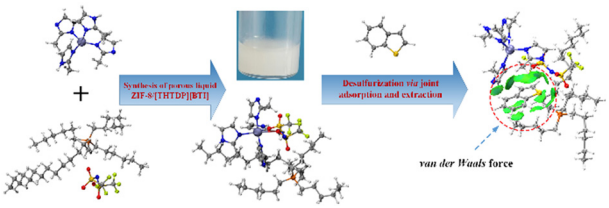
3117




**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*

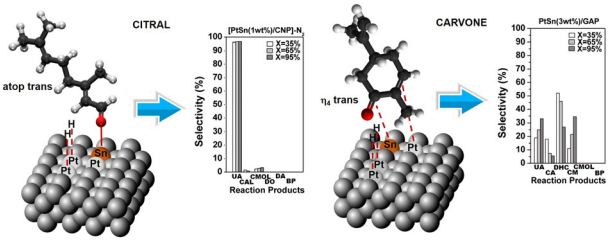
3124




**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*

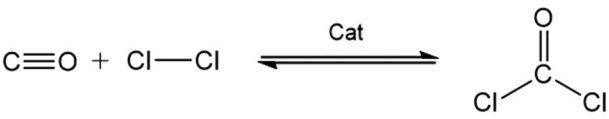
3133




**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**

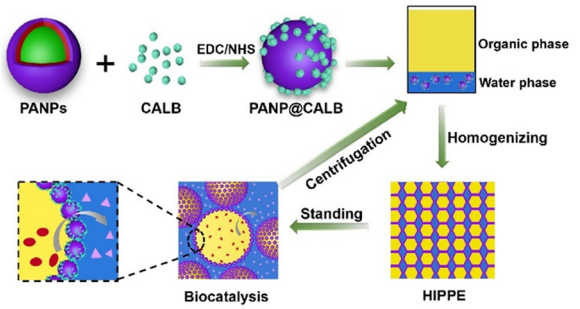
Rory Hughes, Giovanni E. Rossi and David Lennon*

## PAPERS

3162

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

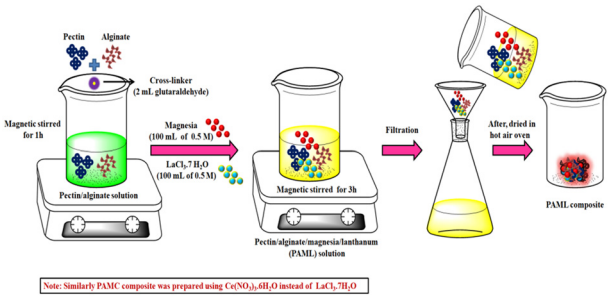
Zhengqiao Yin, Chuangbang Xu, Bowei Liu, Xiucai Liu and Shengmiao Zhang*




3171

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

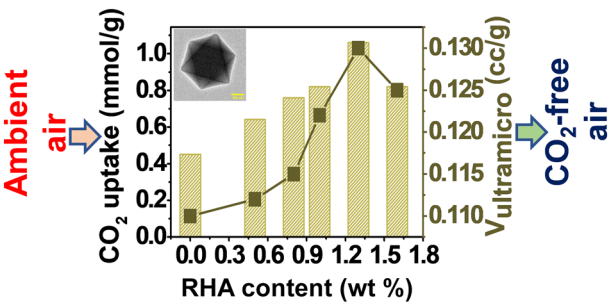
Antonysamy Jeyaseelan, Natrayasamy Viswanathan,* Ilango Aswin Kumar and Mohammad Rafe Hatshan




3185

**Direct $CO_2$ capture from simulated and ambient air over silica-rich MIL-101(Cr)**

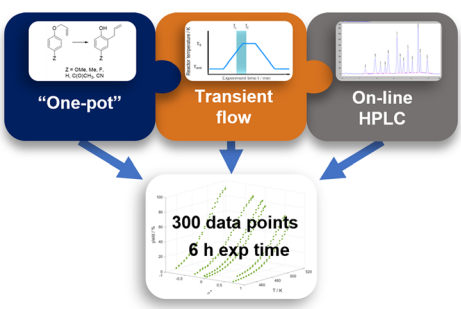
Vaishnavi Kulkarni and Sanjay Kumar Singh*




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*



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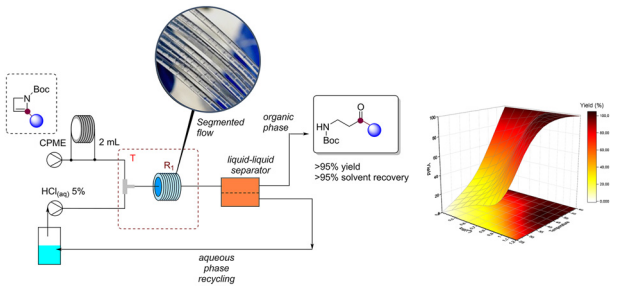
3203




### Sustainable continuous flow synthesis of β-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*