

Reaction Chemistry & Engineering

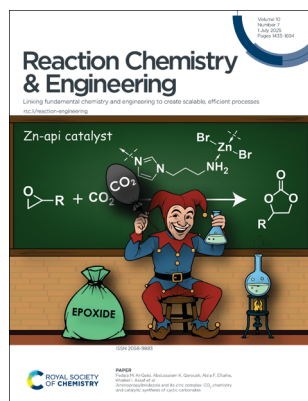
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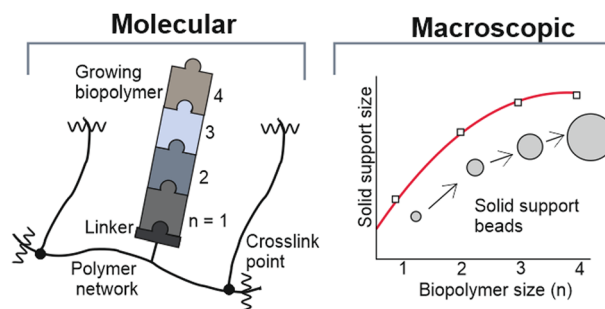
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1461.

REVIEW

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Physicochemical aspects of solid phase synthesis using cross-linked polymeric matrices

Sebastián Pinzón-López, Eric T. Sletten,
Matthias Kraume, Peter H. Seeberger*
and José Dangel-Flores*

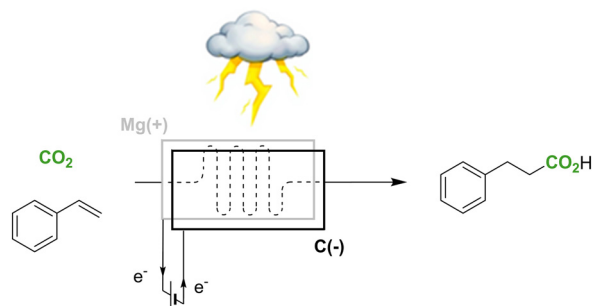


COMMUNICATION

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Electrochemical hydrocarboxylation of styrene with CO₂ in continuous flow

Jonas Mortier, Christian V. Stevens
and Thomas S. A. Heugebaert*





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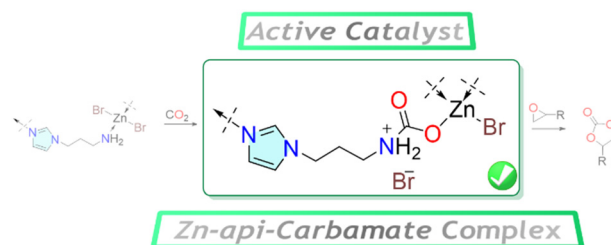
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Aminopropylimidazole and its zinc complex: CO₂ chemistry and catalytic synthesis of cyclic carbonates

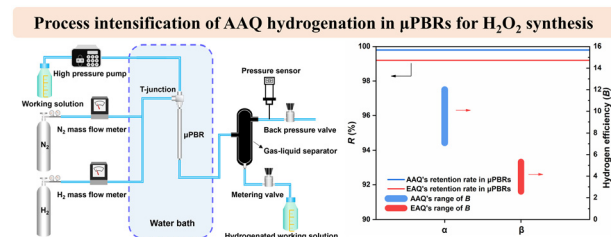
Feda'a M. Al-Qaisi,* Abdussalam K. Qaroush,* Ahmad M. Ala'mar, Ala'a F. Eftaiha,* Khaleel I. Assaf* and Timo Repo



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Process intensification of 2-aminanthraquinone hydrogenation in a micro-packed-bed reactor for H₂O₂ synthesis

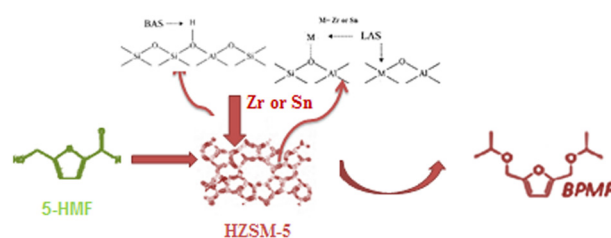
Junjie Wang, Lin Sheng, Qichen Shang, Jian Deng* and Guangsheng Luo*



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Influence of Brønsted and Lewis acidity on the selective synthesis of BPMF from 5-HMF using zeolite-based catalysts

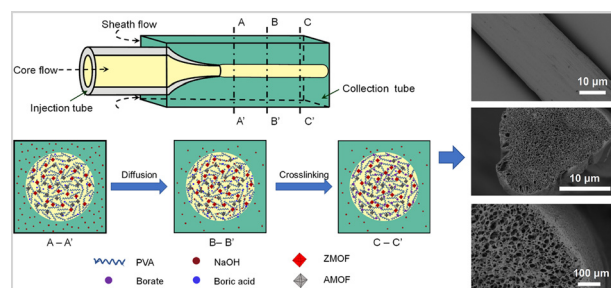
Srujal P. Rana and Paresh H. Rana*



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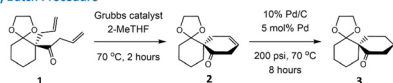
Microfluidic preparation and antibacterial properties of polyvinyl alcohol hydrogel microfibers loaded with MOF microparticles

Ning Zhao, Shi-Yu Liu, Zhuang Liu, Xiao-Jie Ju, Rui Xie, Wei Wang,* Da-Wei Pan* and Liang-Yin Chu

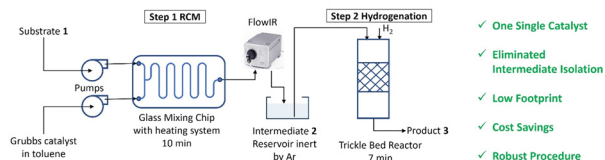


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a) Batch Procedure



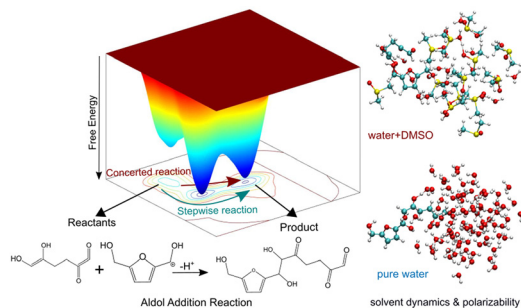
b) Telescoped Flow Procedure



Synthesis of a spiroketone intermediate featuring a green and sustainable telescoped flow process

Shuoxun Wang,* Hao Wu, Yongda Zhang and Frederic Buono*

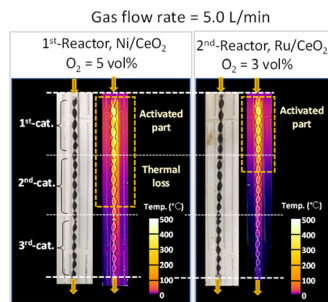
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How the addition of a polar aprotic solvent alters aldol-addition kinetics: exploring the role of solvent molecules and their dynamics

José Carlos Velasco Calderón and Samir H. Mushrif*

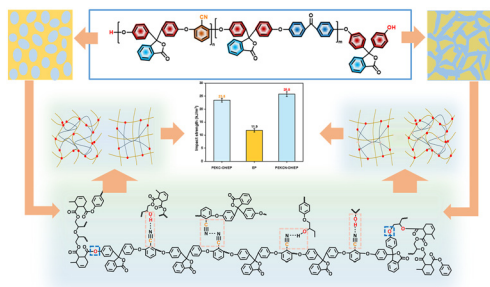
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Multi-stage spiral-type structured catalyst system for direct large-scale methanation of industrial CO₂ emissions: a feasibility study

Hiroshi Akama, Ryo Watanabe,* Priyanka Verma and Choji Fukuhara*

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Synthesis of nitrile-containing reactive phenolphthalein polyaryletherketone and synergistic toughening research on the toughening of epoxy resin—phase structure, mechanical and thermal properties

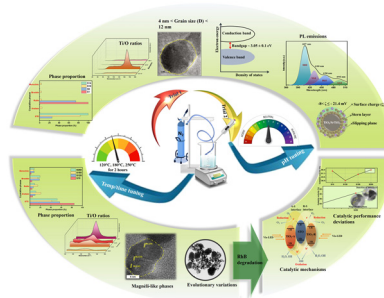
Jiawei Liu, Tongjia Zhang, Shoutian Qiu, Lixin Song, Guangyuan Zhou and Honghua Wang*



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Scalable phase-rich mixed oxide/perovskites: hetero-interfacial tuning catalysed photocatalysis via pH/temperature regulations

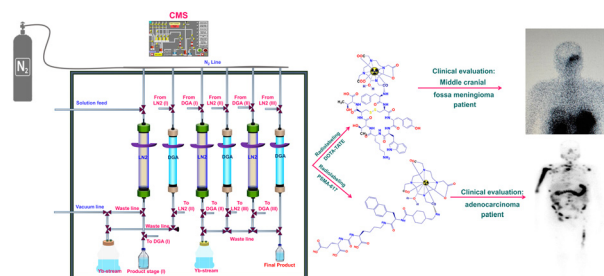
Dharanya. C and Gnanaprakash Dharmalingam*



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A PLC based semi-automated extraction chromatographic separation system for the isolation of medical grade no-carrier-added lutetium-177 for targeted cancer therapy

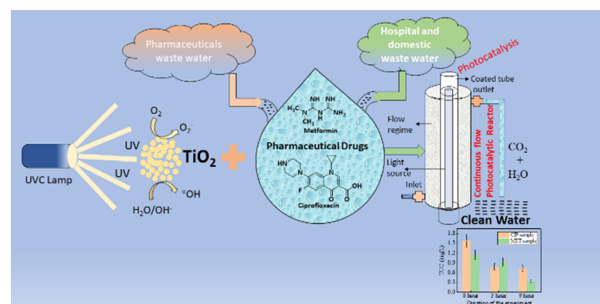
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Photocatalytic degradation of ciprofloxacin and metformin in a continuous-flow tubular reactor

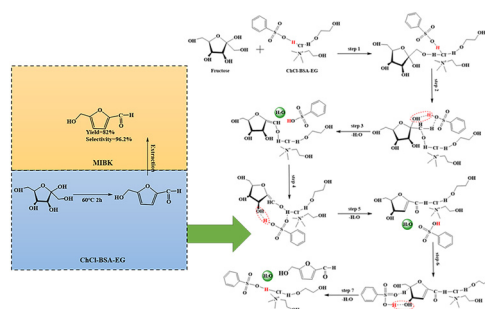
Rahul Binjhade, Raka Mondal and Sourav Mondal*



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Wei Qi, Yuqi Chen, Liangzhi Li, Xin Ju, Hongwei Chen and Lishi Yan*



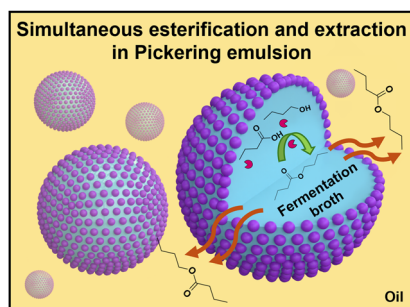
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Ag-doped Ni/SiO₂ catalysts for the synthesis of aromatic amines from aromatic phenol

Kun Li, Baicheng Feng, Meng Guo, Rong Qu and Yan Jin*

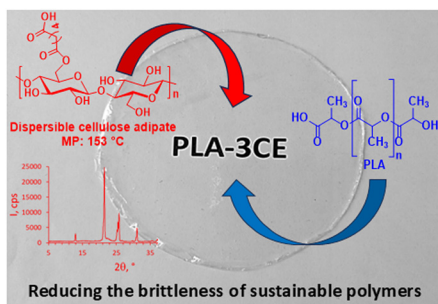
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Simultaneous enzymatic esterification and ester extraction in Pickering emulsions for the recovery of butanol from fermentation broth

Yaoyao Feng, Pierre-Louis Carrette, Christine Dalmazzone and Etienne Jourdir*

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New dispersible and low-melting cellulose ester produced with molten adipic acid as a solvent, reagent and catalyst, and its application to improve the mechanical properties of PLA

Mariafrancesca Baratta, Fabrizio Olivito,* Cataldo Simari, Wan Abd Al Qadr Imad Wan-Mohtar, Isabella Nicotera, Fiore Pasquale Nicoletta, Giovanni De Filpo and Giovanni Golemme

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Hydrogenation of nitriles to primary amines with a carbon-coated Ni/NiO@C catalyst under friendly conditions

Weidong Liu and Jianguo Liu*

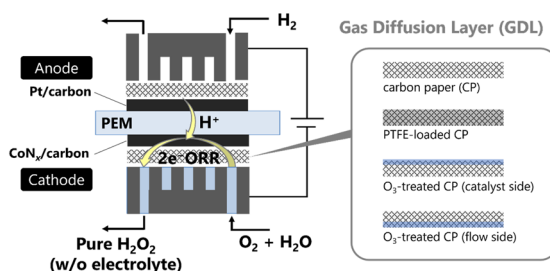


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Proton exchange membrane flow reactor with ozone-treated gas diffusion layers for production of pure H₂O₂ in aqueous and methanol solutions

Takuya Okazaki, Chihiro Tateishi, Kento Shibata, Kazuma Enomoto and Fumiaki Amano*

Proton Exchange Membrane (PEM) Flow Reactor

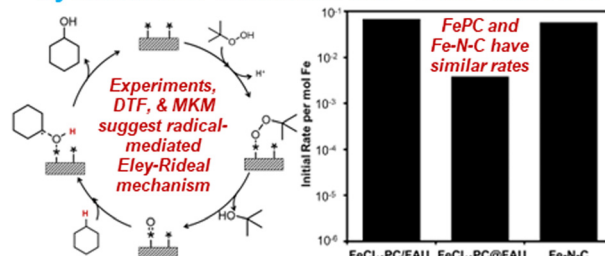


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Kinetic and mechanistic studies of cyclohexane oxidation with *tert*-butyl hydroperoxide over M-N₄ catalysts

Ethan P. Iaia, Miles G. Miller, Ademola Soyemi, Martin G. Bakker, Tibor Szilvási and James W. Harris*

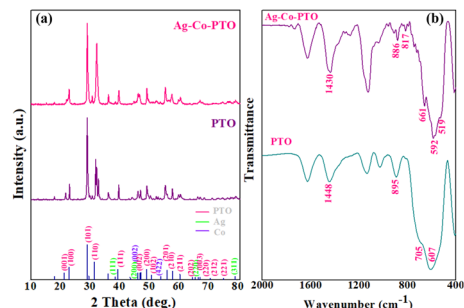
Cyclohexane Oxidation with TBHP at 303 K



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Lead titanate-modified perovskite with silver and cobalt as a superior photocatalyst toward the conversion of methylene blue

Amin Yousefvand, Mahdiah Ghobadifard* and Sajjad Mohebbi*



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The kinetics of aqueous lactose hydrolysis with sulfuric acid

Wenjia Wang, Owen J. Dziedzic, Claire R. Lesnjak, Zhuoqian Yu, James Miller, Xiaolei Shi, Jarryd R. Featherman, Scott A. Rankin and George W. Huber*

