

Reaction Chemistry & Engineering

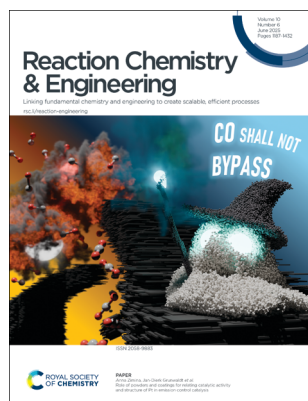
Bridging the gap between chemistry and chemical engineering

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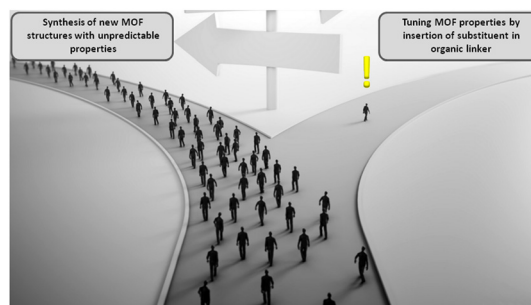
See Anna Zimina, Jan-Dierk Grunwaldt *et al.*, pp. 1233–1243.
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Effect of organic linker substituents on properties of metal–organic frameworks: a review

Viktoriia V. Torbina, Yulia A. Belik and Olga V. Vodyankina*

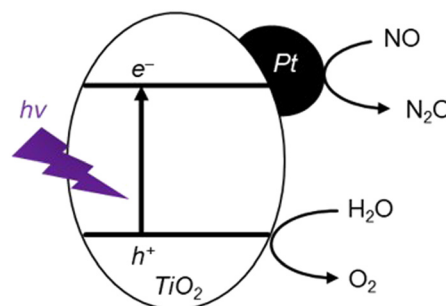


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Photocatalytic evolution of nitrous oxide from nitric monoxide over Pt-loaded titanium dioxide under UV irradiation

Ryo Asayama, Masanori Takemoto, Arata Suzuki, Ryuichi Watanabe, Fuminao Kishimoto, Kenta Iyoki, Tatsuya Okubo and Toru Wakihara*





GOLD
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Fundamental questions
Elemental answers

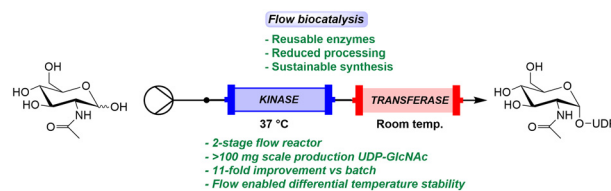
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COMMUNICATIONS

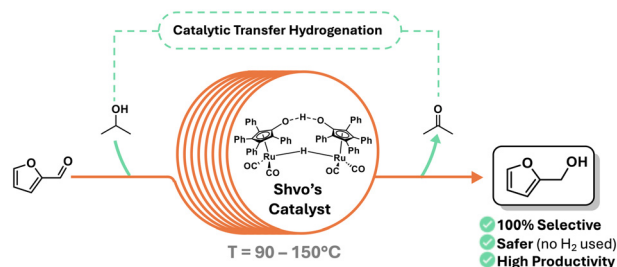
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A modular, reusable biocatalytic flow system for UDP-GlcNAc production

Tom L. Roberts, Jonathan P. Dolan, Gavin J. Miller,*
Marcelo A. D. Lima* and Sebastian C. Cosgrove*

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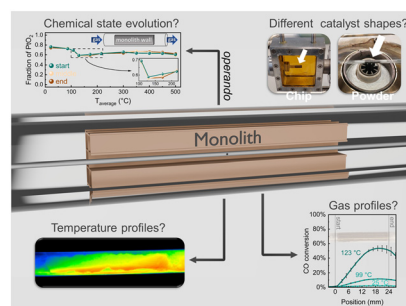
Selective transfer hydrogenation of furfural under continuous flow conditions promoted by the recoverable homogeneous Shvo's catalyst

Giulia Brufani, Maitê Campos, Chiara Lenzi,
Luís Adriano Santos do Nascimento, Emilia Paone,
Andrea Piazzzi, Rita Mazzoni,* Luigi Vaccaro*
and Francesco Mauriello*

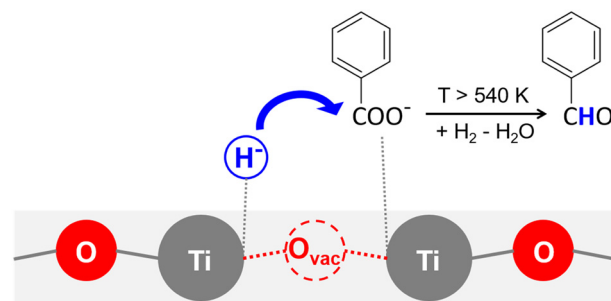
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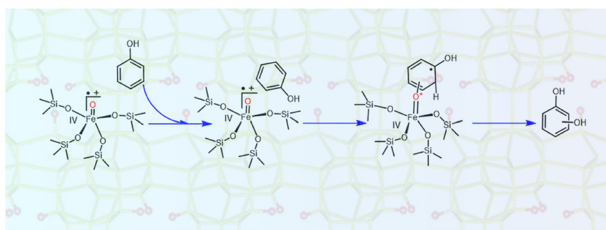
Role of powders and coatings for relating catalytic activity and structure of Pt in emission control catalysis

Samuel Struzek, Tim Delrieux, Florian Maurer,
Danielle Santos Gonçalves, Sarina-Lena Heck, Linda Klag,
Joachim Czechowsky, Anna Zimina*
and Jan-Dierk Grunwaldt*

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Hydride-mediated chemoselective C-H bond formation during benzoic acid hydrodeoxygenation on anatase TiO_2 Mikyung Hwang, Jeremy Hu, Michael J. Janik
and Konstantinos Alexopoulos*

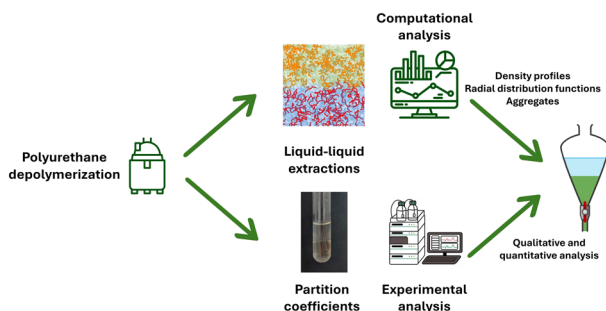
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Iron-loaded pure silica -SVR zeolite for the hydroxylation of phenol

Wenwen Song, Haodong Xie, Li Liu, Xiang Ni, Yuan Xue, Yan Liu, Junwen Chen, Lei Wang* and Hongjun Zhu*

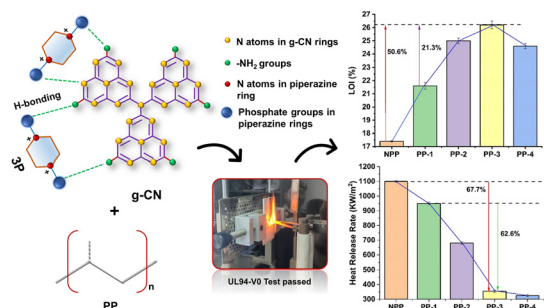
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Bridging molecular dynamics and process engineering to predict the chemical recyclability of polyurethane foams

Christophe de Graaf, Jonas Cassimon, Attila Kovacs, Matthew Porters, Christophe M. L. Vande Velde, Philippe Nimmegeers, Ana V. Cunha and Pieter Billen*

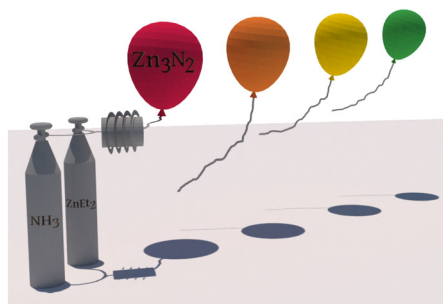
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Synergistic effect of graphitic carbon nitride in enhancing flame-retardant properties of polypropylene composites

Vinod Sharma, Shilpi Agarwal,* Shailey Singhal, Shikha Wadhwa and Ashish Mathur*

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Gas-liquid flow synthesis of Zn_3N_2 -quantum dots

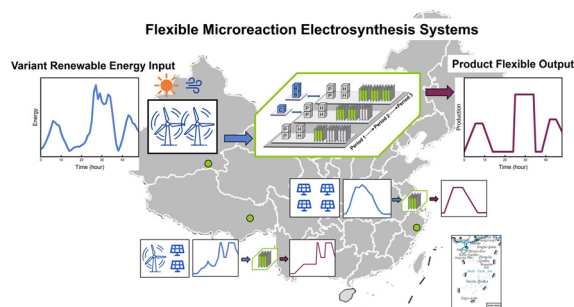
Malin G. Lüdiche,* Jonas Schramm, Martin Wichert and Ralph A. Sperling*



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Multi-scale decision-making of HRES-powered flexible microreaction electrosynthesis systems

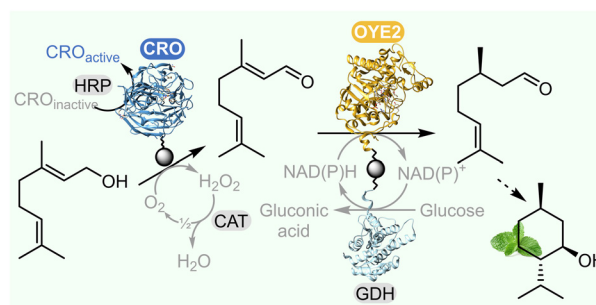
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Enantioselective synthesis of (*R*)-citronellal from geraniol with an immobilised copper alcohol oxidase and ene reductase

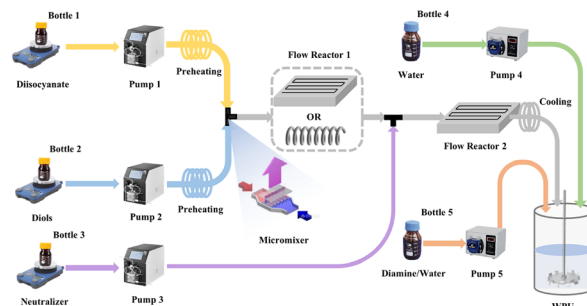
Beatrice Tagliabue, Christian M. Heckmann, Rocio Villa, Sacha Grisel, Jean-Guy Berrin, Mickael Lafond, David Ribeaucourt and Caroline E. Paul*



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Rapid preparation of waterborne polyurethane dispersions using continuous-flow microreaction technology

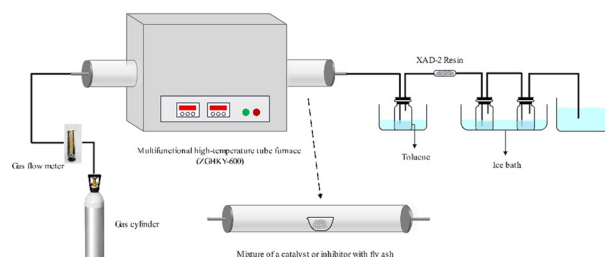
Wenjun Huang, Xuanyu Chen, Qianjiang Lv, Xiaolan Cai, Wei Tan and Yanxiong Fang*



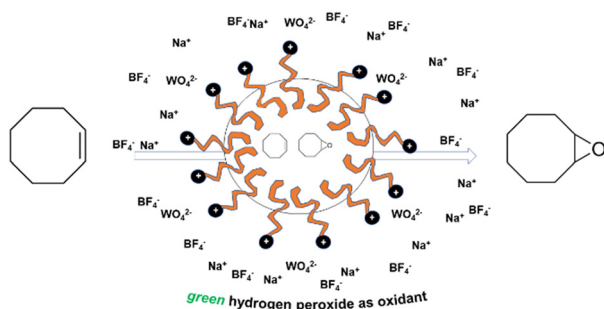
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Optimization of low-temperature pyrolysis of dioxins in fly ash from municipal solid waste incineration: adding catalysts and inhibitors

Zhuoyu Wen, Weishi Li, Li Li, Li Xiaoting, Dahai Yan* and Yang Liao*



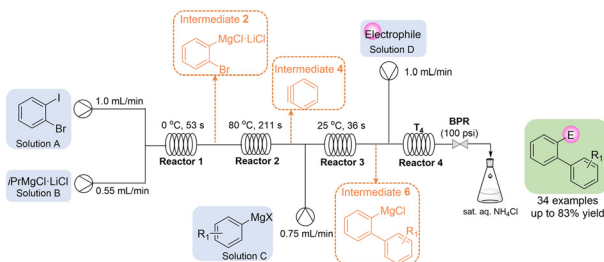
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Amphiphobic surface-active ionic liquids as dynamic micellar phase-transfer catalysts for biphasic epoxidations

Johannes Luibl, Markus Hegelmann, Stephan Schwarzing, Wolfgang Korth, Mirza Cokoja* and Andreas Jess*

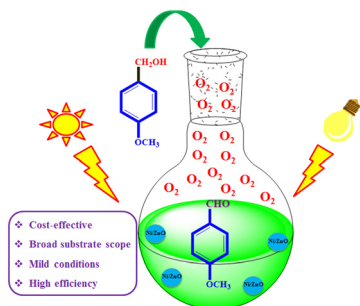
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Continuous flow synthesis of functionalized biaryl compounds via a benzyne intermediate

Chaoming Liang, Weixia Lin, Zilong Lin, Runxiang Yu, Yuyan Kang, Xiangmin Sang, Maolin Sun, Yueyue Ma, Ruihua Cheng and Jinxing Ye*

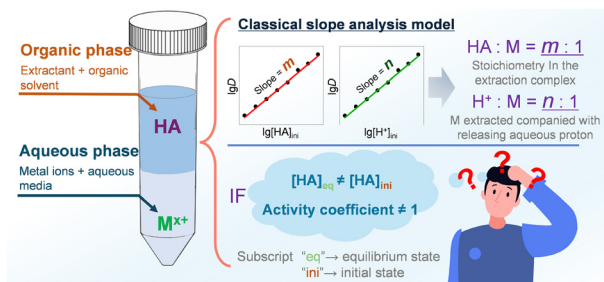
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Selective photocatalytic oxidation of (hetero)aryl alcohols to aldehydes and ketones by visible-light-absorbing three-dimensional Ni/ZnO nanoparticles

Zahra Bazayr,* Fatemeh Zeraatpisheh and Nastaran Moalemiyan

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Is it reliable to determine the stoichiometry of extraction complexes using the classic slope analysis model in acidic extraction systems?

Qi Zhao, Shuai Wang* and Kaimin Shih*

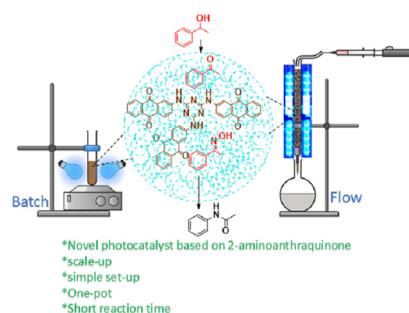


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The synergistic effect of a novel photocatalyst based on triazine with 2-aminoanthraquinone for the Beckmann rearrangement in batch and a simple hand-made continuous flow photocatalytic reactor

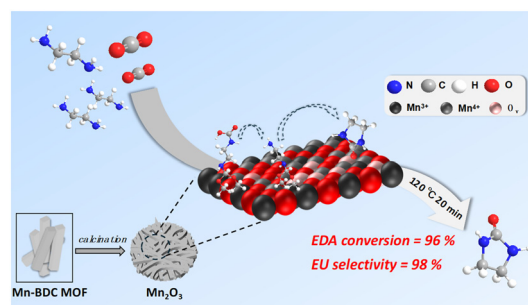
Mona Hosseini-Sarvari* and Mohammad Namjoo



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Oxygen vacancy-enriched MOF-derived Mn_2O_3 catalysts for high-efficiency direct synthesis of ethylene urea from CO_2

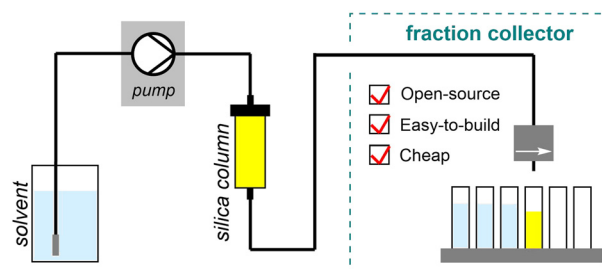
Fei Wang,* Yulong Jin, Yue Zhang, Xuan Liang, Zihao Tong, Xuejiao Wei, Yihu Ke, Jie Xu and Bing Xue*



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Open-source fraction collector for flash column chromatography and continuous flow reactions

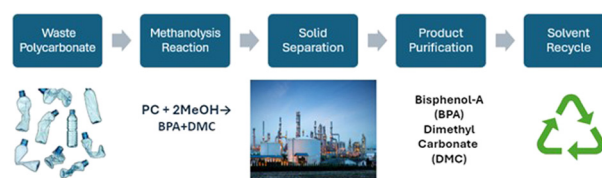
Yuesu Chen, Cassian Desmons, Martin Cattoen and Jean-Christophe M. Monbaliu*



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Aswin Nair, Megan Novak,* Jonathan Ochoa, Dyron Powell, Josh Ramsey and Logan Stadtmueller



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Expression of Concern: Immobilized tetrakis(triphenylphosphine)palladium(0) for Suzuki–Miyaura coupling reactions under flow conditions

G. Valerie Ramaotsoa, Ian Strydom, Jenny-Lee Panayides* and Darren Riley*

