

Reaction Chemistry & Engineering

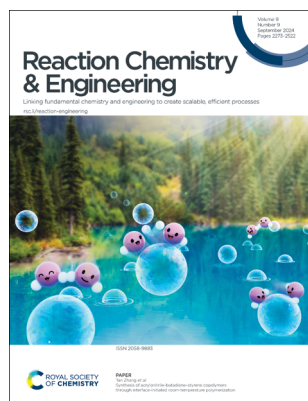
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Cover

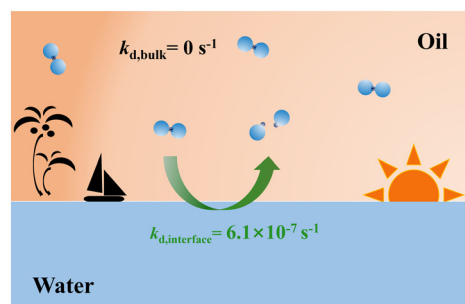
See Tan Zhang *et al.*,
pp. 2282–2292.
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2024, 9, 2282.

PAPERS

2282

Synthesis of acrylonitrile–butadiene–styrene copolymers through interface-initiated room-temperature polymerization

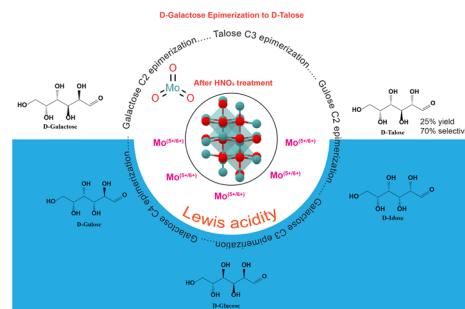
Shijie Wu, Yao Fu, Soham Das, Miles Pamueles Duan and Tan Zhang*



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Molybdenum oxide with a varied valency ratio to enable selective D-galactose epimerization to D-talose

Bhawana Devi, Senthil Murugan Arumugam, Ravi Kumar Kunchala, Paramdeep Kaur, Sangeeta Mahala and Sasikumar Elumalai*



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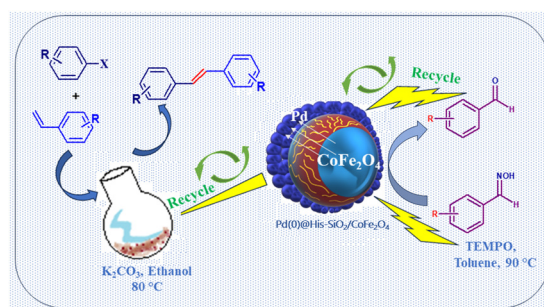


PAPERS

2306

Core-shell Pd(0)@His-SiO₂/CoFe₂O₄ nano-composite as a magnetically recoverable heterogeneous catalyst for the deprotection of oximes and Heck coupling

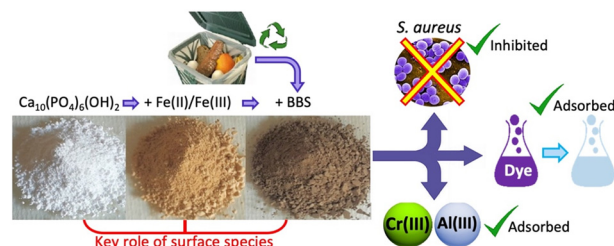
Vrinda Sharma, Anu Choudhary, Surbhi Sharma, Gunjan Vaid and Satya Paul*



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Insights into performances of magnetic and bio-based doped-nanohydroxyapatites as water decontamination agents

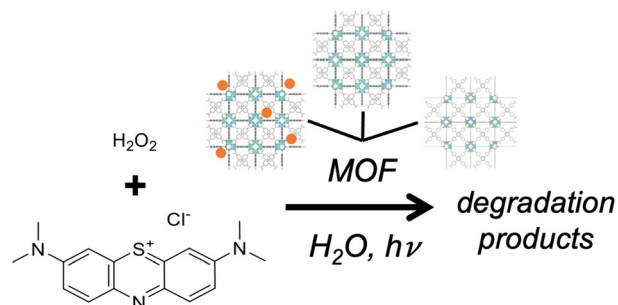
Maria Laura Tummino, Giuliana Magnacca, Monica Rigoletto, Mery Malandrino, Claudia Vineis and Enzo Laurenti*



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UiO(Zr)-based MOF catalysts for light-driven aqueous pollutant degradation

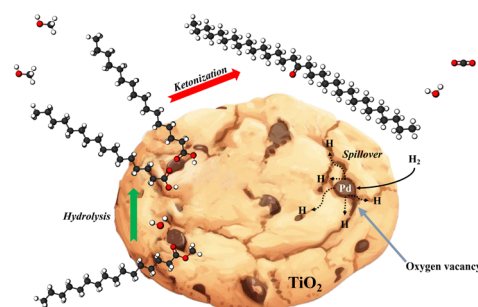
Samuel C. Moore, Isabella L. Hubble, Alyssa L. Ritchie, Jeffrey E. Barzach and Michele L. Sarazen*



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Water-assisted ketonization of methyl palmitate to palmitone over metal incorporated TiO₂ catalysts

Jetsadagorn Pittayatornkul, Tosapol Maluangnont*, Siriporn Jongpatiwut, Piyasan Praserttham, Makoto Ogawa and Tawan Sooknoi*



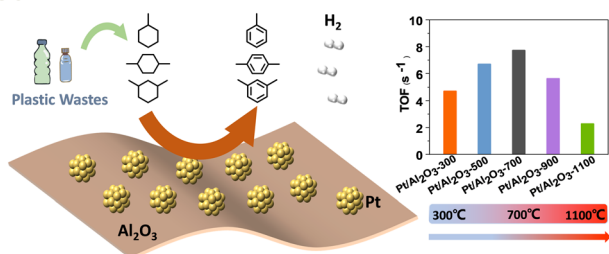
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Green synthesis of insecticidal, bactericidal, UV absorbent, sustainable paint formulations using *Mentha piperita* (peppermint)

Hammad Majeed,* Tehreema Iftikhar* and Rida Abid

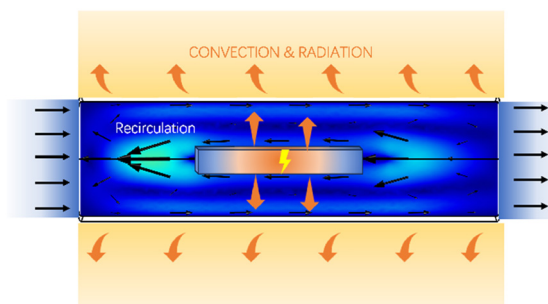
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Modulation of support properties in flower-like Pt/Al₂O₃ nanosheet catalysts for dehydrogenation of cycloalkanes

Mengmeng Zhu, Gang Hou, Chaoran He, Sibao Liu* and Guozhu Liu*

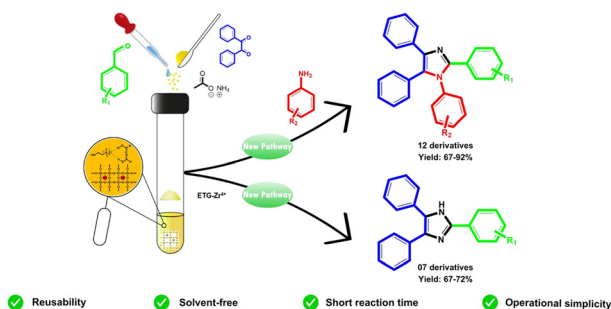
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Computational insights into steady-state and dynamic Joule-heated reactors

Arnav Mittal, Marianthi Ierapetritou and Dionisios G. Vlachos*

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Design and preparation of four-component eutectogels as a green and efficient catalyst for the one-pot multi-component synthesis of 1,2,4,5-tetrasubstituted and 2,4,5-trisubstituted imidazole derivatives under solvent-free conditions

Phat Ngoc Nguyen, Trung-Nhan Dong Tran, Nhat Minh Nguyen, Viet-Hoang Nguyen Le, Linh Dieu Nguyen, Phuong Hoang Tran and Hai Truong Nguyen*

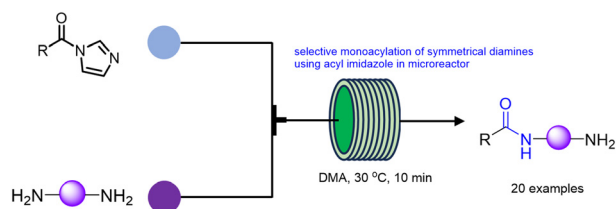


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A green and efficient monoacylation strategy for symmetrical diamines in microreactors

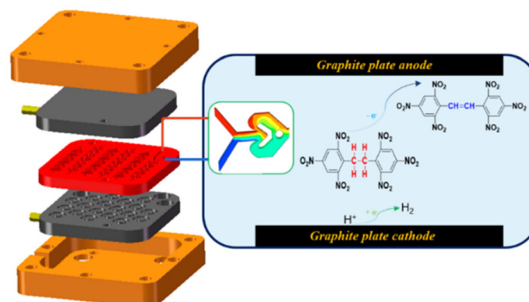
Qilin Xu, Hui Liu, Zhenxin Li, Yongjun Zang, Guosi Li, Fucheng Zhu, Shitang Ma, Yunfeng Ma and Maoliang Liao*



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Continuous synthesis of hexanitrostilbene using a difunctional electrochemical reactor

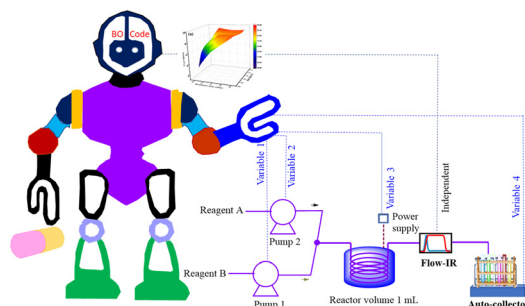
Yuqiu Wang, Guangyuan Zhang, Shuaijie Jiang, Ming Lu and Pengcheng Wang*



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Autonomous closed-loop photochemical reaction optimization for the synthesis of various angiotensin II receptor blocker molecules

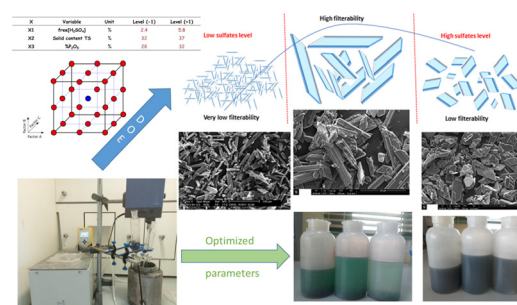
Dnyaneshwar Aand, Abhilash Rana, Amirreza Mottafegh, Dong Pyo Kim and Ajay K. Singh*



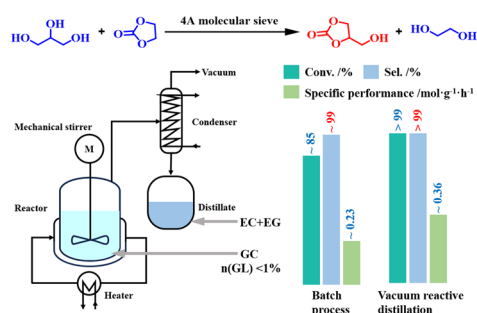
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Optimization of parameters during phosphoric acid production using response surface methodology: toward a biomimetic process

Mehdi Abdelouahhab,* Sliman Manar and Rachid Benhida



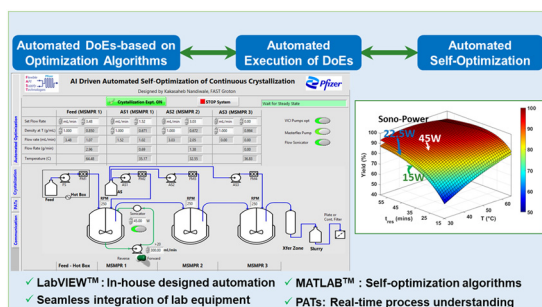
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Efficient synthesis of glycerol carbonate over a commercially available 4A molecular sieve *via* an integrated vacuum reactive distillation process

Jiayin Huang, Anwei Wang, Chunsheng Zhao, Yu Fan, Shanshan Cao, Zheng Tian and Weiyou Zhou*

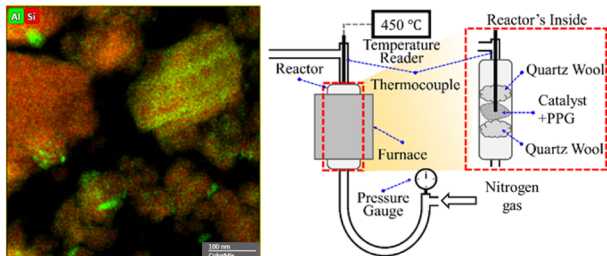
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Automated self-optimization of continuous crystallization of nirmatrelvir API

Kakasaheb Y. Nandiwale,* Robert P. Pritchard, Cameron T. Armstrong, Steven M. Guinness and Kevin P. Girard*

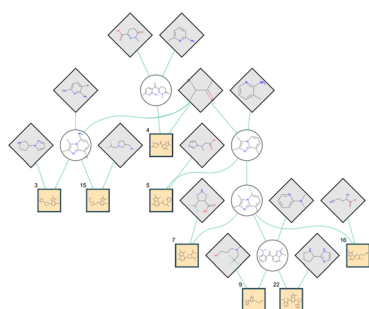
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A multiscale investigation of polypropylene glycol polymer upcycling to propionaldehyde *via* catalytic cracking on acid sites of mesoporous Y zeolites

Abraham Martinez, Kanan Shikhaliyev, Xuemin Li, Jinyi Han, Kaustav Chaudhuri, Son-Jong Hwang, Jagoda M. Urban-Klaehn, Alexander Kuperman, Anne Gaffney, Jochen Lauterbach* and Alexander Katz*

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Diversity-oriented multi-compound synthesis optimization

Hans Briem,* Lukas Gläser, Georg Mogk and Oliver Schaudt

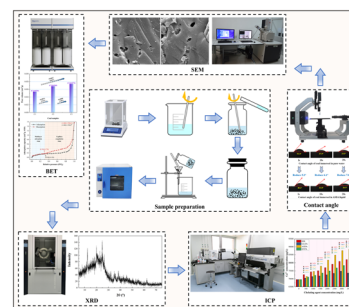


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Experimental study on the leaching effect of different chelating agents on the constant metal ions of lignite

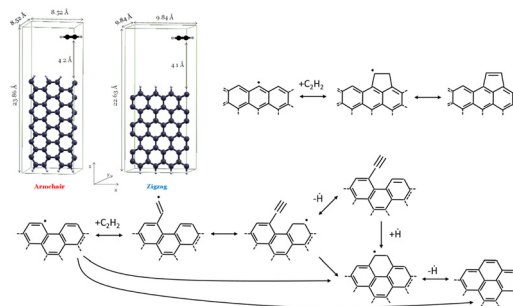
Dawei Chen, Jun Xie,* Jingyi Zhang,* Yi Wang and Faquan Wang



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Understanding heterogeneous growth mechanisms at graphene edges: a theoretical study on acetylene deposition and mechanistic analysis

C. Giudici, G. Contaldo, M. Ferri, L. Pratali Maffei, M. Bracconi, M. Pelucchi* and M. Maestri*



CORRECTION

2520

Correction: Parameter investigation of an organic–inorganic hybrid resin for a 3D-printed microchannel heat exchanger

Sunjae Lee, Amirreza Mottafegh and Dong-Pyo Kim*

