

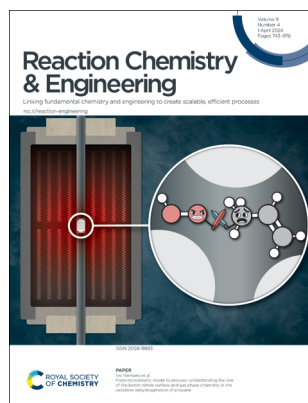
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Cover
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2024, 9, 795.

REVIEW

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Biomass-based graphene aerogel for the removal of emerging pollutants from wastewater

Vijayendra Kumar Tripathi, Manish Shrivastava, Jaya Dwivedi, Raju Kumar Gupta,* Lokesh Kumar Jangir* and Kumud Malika Tripathi*

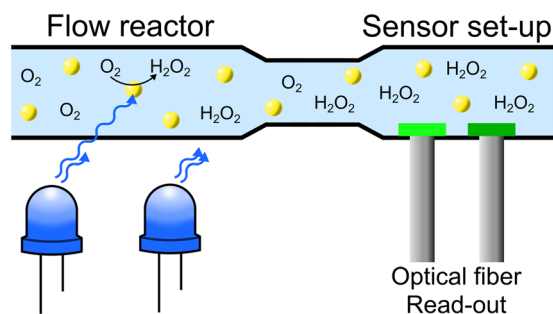


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At-line monitoring of hydrogen peroxide released from its photocatalytic and continuous synthesis

Anders Ø. Tjell, Lars-Erik Meyer, Barbara Jud, Selin Kara and Torsten Mayr*



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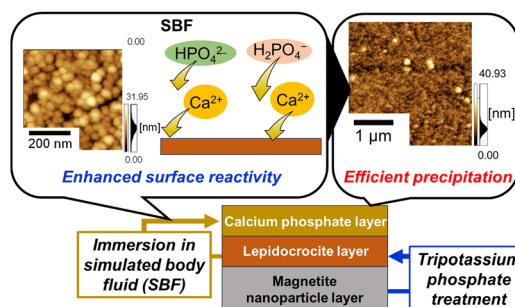


COMMUNICATIONS

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Surface treatment of magnetite nanoparticle thin films with potassium phosphate for calcium phosphate precipitation

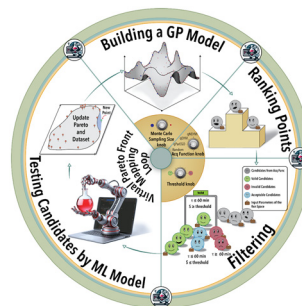
Reo Kimura, Kazuto Sugimoto, Iori Yamada and Motohiro Tagaya*



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Digital Pareto-front mapping of homogeneous catalytic reactions

Negin Orouji, Jeffrey A. Bennett, Sina Sadeghi and Milad Abolhasani*

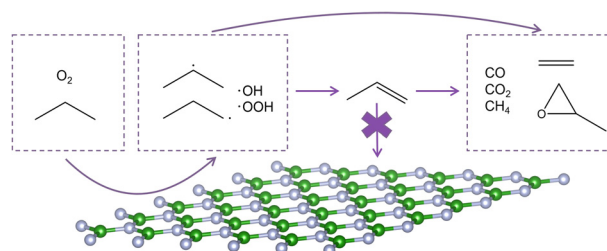


PAPERS

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From microkinetic model to process: understanding the role of the boron nitride surface and gas phase chemistry in the oxidative dehydrogenation of propane

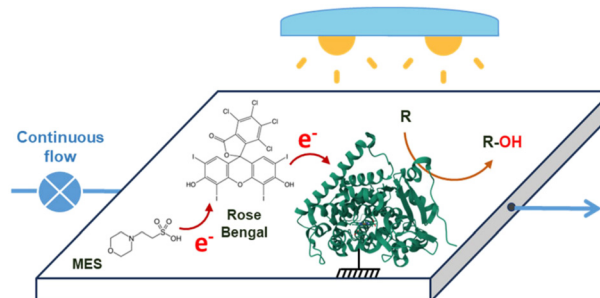
Unni Kurumbail, William P. McDermott, Edgard A. Lebrón-Rodríguez and Ive Hermans*



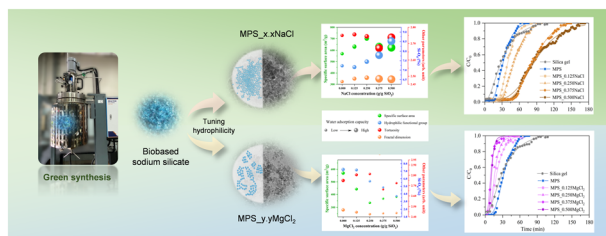
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Mediated electron transfer in a photo-bioreactor: continuous flow hydroxylation using cytochrome P450 BM3 in NADPH-free conditions

Ali Fendri, Donya Valikhani and Joelle N. Pelletier*



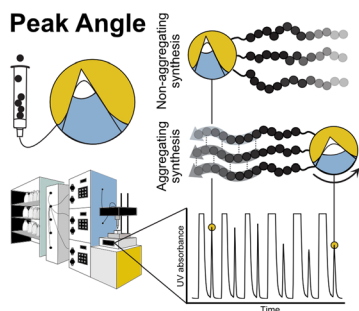
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Green synthesis of surfactant-free mesoporous silica with strong hydrophilicity via metal salt modifications for moisture adsorption

Pariyawalee Sangteantong, Kunpirom Chainarong, Waleporn Donphai and Metta Chareonpanich*

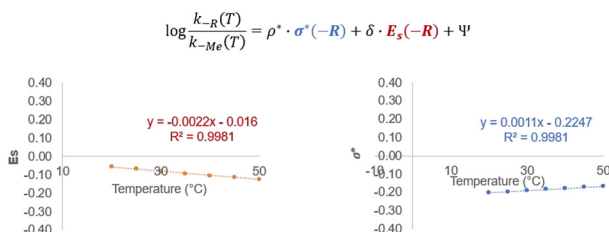
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A robust data analytical method to investigate sequence dependence in flow-based peptide synthesis

Bálint Tamás, Pietro Luigi Willi, Héloïse Bürgisser and Nina Hartrampf*

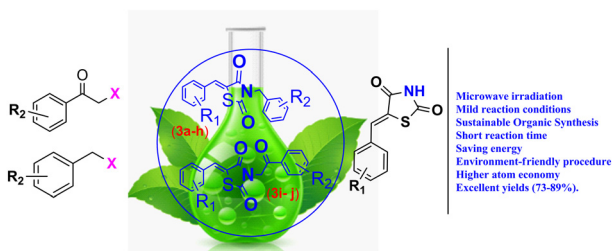
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Sindi Baco, Marcel Klinksiek, Mélanie Mignot, Christoph Held, Julien Legros and Sébastien Leveneur*

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A safe and new strategy for *N*-arylation of 2,4-thiazolidinediones via microwave irradiation using base catalyst K_2CO_3 in DMF

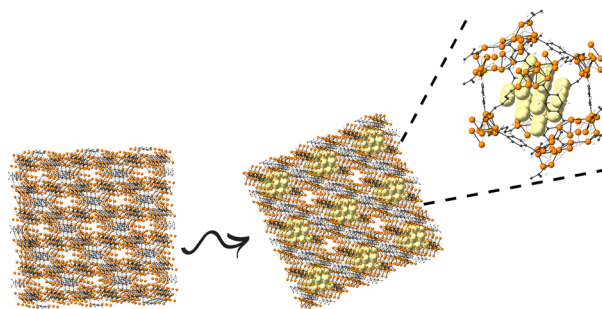
Ragini C. Patil, Nita M. Khiratkar, Sumeer Ahmed, Joazaizulfazli Jamalis, Aso Hameed Hasan, Malika Berredjem, Sarkar M. A. Kawsar and Ajmal R. Bhat*



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Encapsulation of $Ti_xFe_yLa_mO_z$ nanoparticles into NH_2 -MIL-125(Ti) to fabricate a promising photocatalyst for the C–N coupling reaction

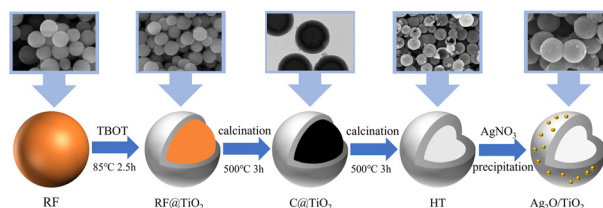
Yahya Absalan,* Mohammad Rafsanjani Dehghazi, Reza Samavati, Kambiz Souri and Mostafa Gholizadeh



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Synthesis of hollow sphere structured TiO_2 loaded with Ag_2O and its photocatalytic activity

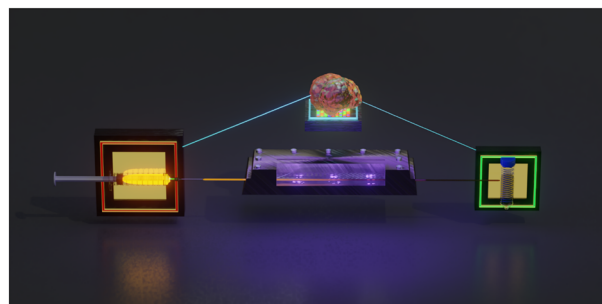
Hejin Liu, Ying Liu, Xueqin Wang,* Peng Qiao, Wenyi Wang, Mei Zhang, Yanxiu Liu* and Hua Song



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Machine-learning assisted optimisation during heterogeneous photocatalytic degradation utilising a static mixer under continuous flow

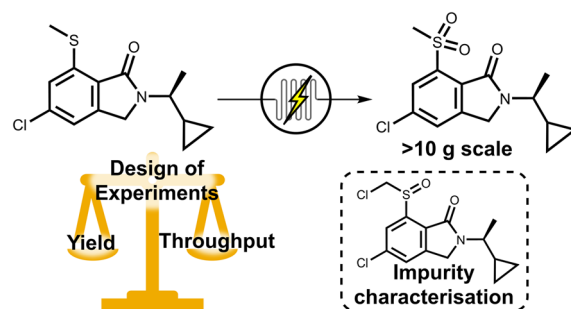
Thomas M. Kohl, Yan Zuo, Benjamin W. Muir, Christian H. Hornung, Anastasios Polyzos, Yutong Zhu, Xingdong Wang and David L. J. Alexander*



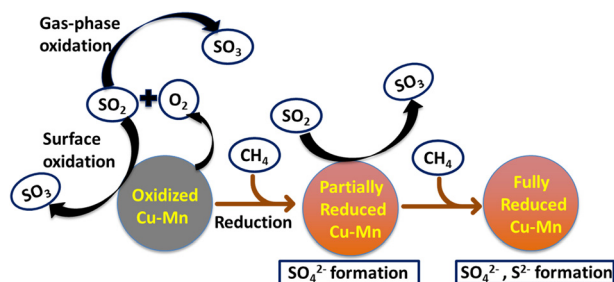
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The electrochemical oxidation of a thioether to form an API intermediate and the effects of substrate electronics on impurity formation

Hamish R. Stephen,* Holly Longhurst, Michael Nunn, Christopher D. Parsons and Matthew Burns*



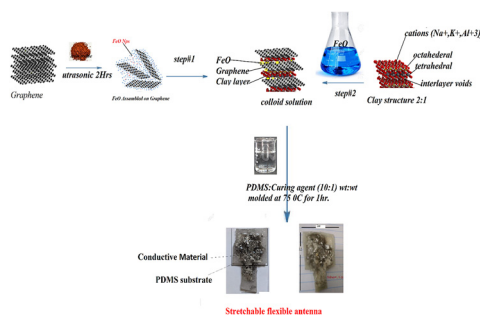
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Interaction of SO_2 with a Cu–Mn oxide oxygen carrier during chemical looping with oxygen uncoupling

Turna Barua and Bihter Padak*

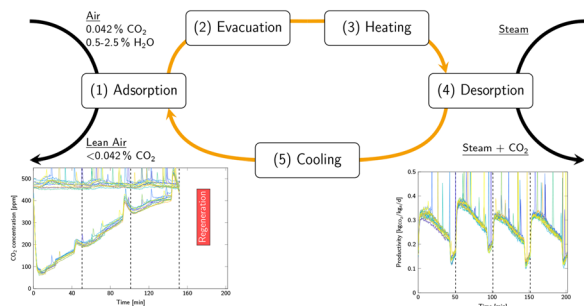
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Fabrication and evaluation of a flexible antenna device composed of a compatible iron-oxide clay in a PDMS graphene matrix

Ameen Abdelrahman, Fouad Erchiqui and Mourad Nedit

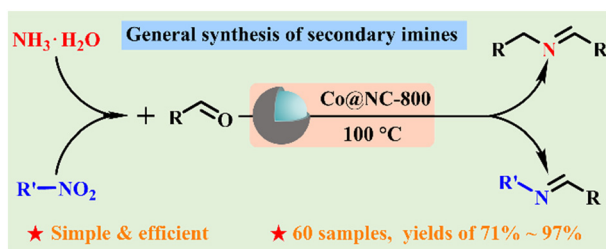
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Experimental study of CO_2 capture from air via steam-assisted temperature-vacuum swing adsorption with a compact kg-scale pilot unit

H. M. Schellevis and D. W. F. Brilman*

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General synthesis of secondary imines via reductive coupling of carbonyl and nitro compounds employing a reusable cobalt catalyst

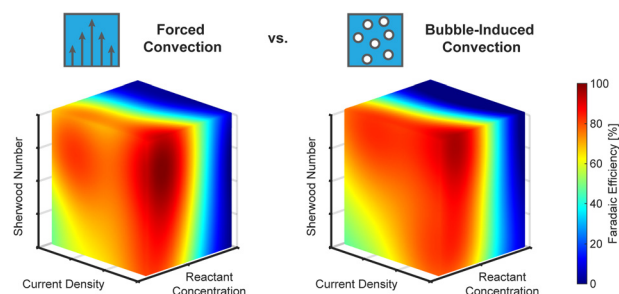
Chaochong Zhang, Yurong He, Peng Zhou,* Yuandie Ma, Ziliang Yuan, Guoqiang She, Zhe Zheng, Juncheng Hu, Qingqing Jiang, Jason Chun-Ho Lam, Bo Han,* Zehui Zhang* and Bing Liu*



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Understanding the effects of forced and bubble-induced convection in transport-limited organic electroynthesis

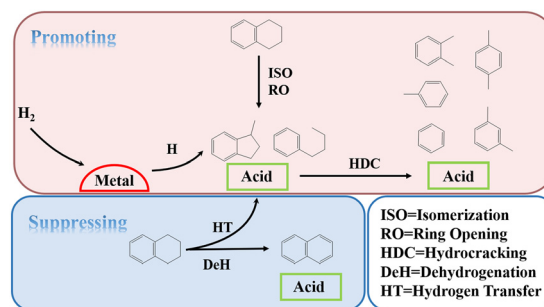
Casey K. Bloomquist, Melisa Dogan, James S. Harris, Benjamin D. Herzog, William J. Tenn III, Eray S. Aydil* and Miguel A. Modestino*



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Dominant role of zeolite in coordination between metal and acid sites on an industrial catalyst for tetralin hydrocracking

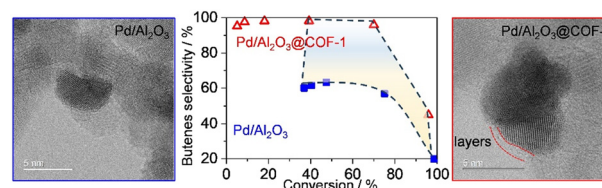
Jiayao Qi, Hanqiong Jia, Fei Wang, Hang Gao, Bo Qin,* Xinwei Zhang, Jinghong Ma, Yanze Du and Ruifeng Li*



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Palladium particle-catalyzed selective butadiene hydrogenation: effect of covalent organic framework modification

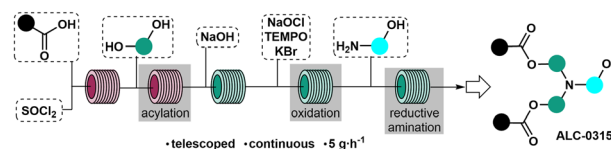
Xianming Li, Yi Wang, Qiao Yuan, Xintai Chen, Xiaoling Mou,* Xiangen Song, Li Yan, Ronghe Lin* and Yunjie Ding*



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Continuous flow synthesis of the ionizable lipid ALC-0315

Jakob B. Wolf, Ju Weon Lee, Matthew B. Plutschack, Dario Cambié, Andreas Seidel-Morgenstern and Peter H. Seeberger*





Selective aerobic oxidative C–C bond cleavage using a high-entropy oxide-derived multimetallic catalyst

Shaoyuan Guo, Xinli Tong,* Jipeng Wang and Hang Tang

