

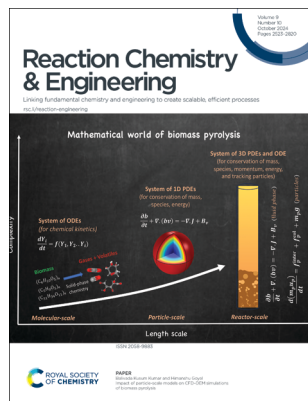
# Reaction Chemistry & Engineering

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### Cover

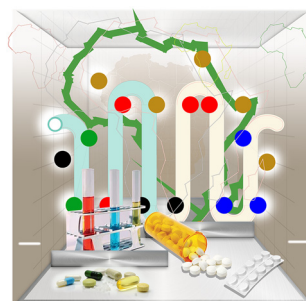
See Balivada Kusum Kumar and Himanshu Goyal, pp. 2552–2568.  
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Sinazo Nqeketo and Clodius R. Sagandira\*

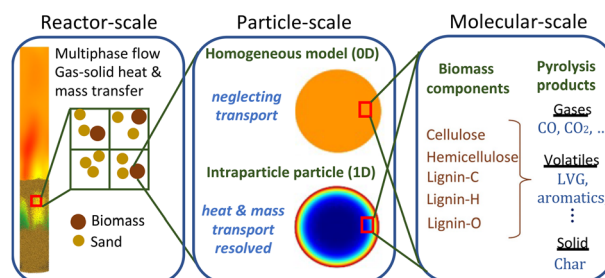


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### Impact of particle-scale models on CFD–DEM simulations of biomass pyrolysis

Balivada Kusum Kumar and Himanshu Goyal\*



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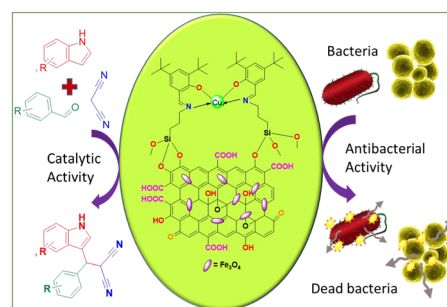
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## Unveiling the dual-function applications of a magnetically retrievable chemically grafted Schiff base Cu-complex on graphene oxide for catalytic and antibacterial applications

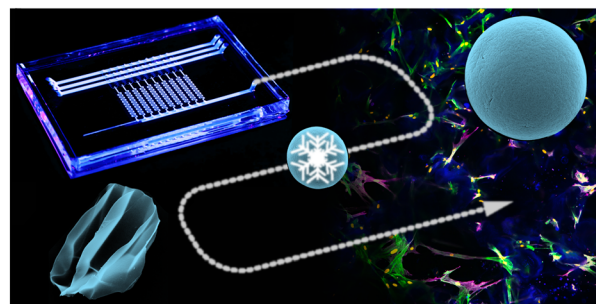
Himadri Priya Gogoi, Nilotpal Goswami and Pranjit Barman\*



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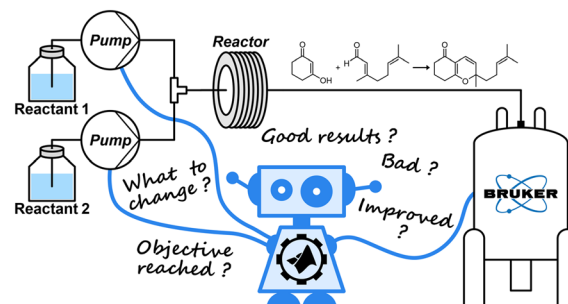
Sushant Singh, Wing Yan Chu, Rojin Ostadsharif Memar, Andrew De Carlo, Teodor Veres and Axel Günther\*



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## Autonomous reaction self-optimization using in-line high-field NMR spectroscopy

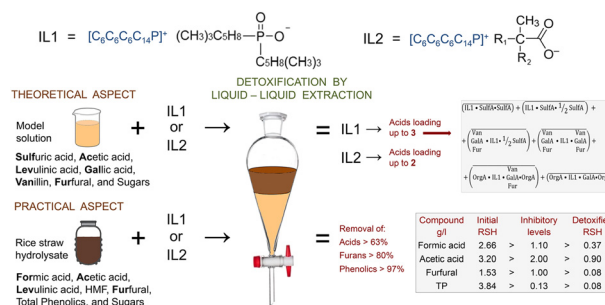
Nour El Sabbagh, Margherita Bazzoni, Yuliia Horbenko, Aurélie Bernard, Daniel Cortés-Borda, Patrick Giraudeau, François-Xavier Felpin\* and Jean-Nicolas Dumez\*



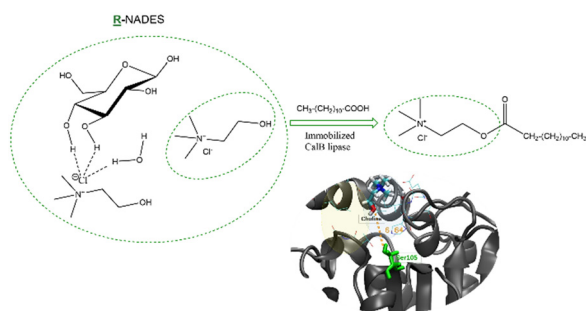
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## Extraction by ionic liquids for the case of detoxification of lignocellulosic hydrolysates

Konstantza Tonova,\* Svetlana Zhivkova, Madlena Lazarova and Ahmad Mustafa



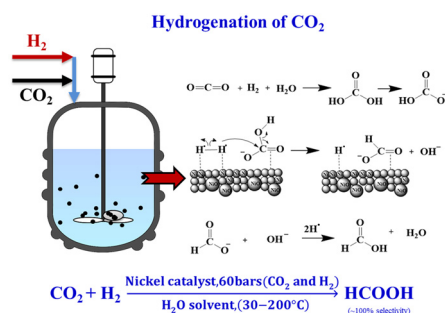
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### Lipase-catalysed esterification in a reactive natural deep eutectic solvent leads to lauroylcholine chloride rather than glucose ester

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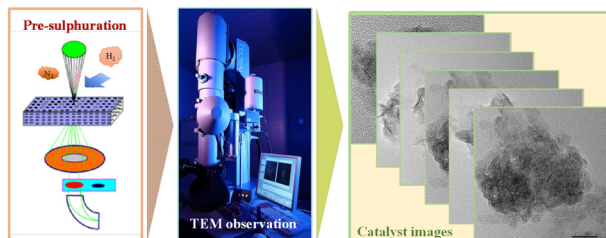
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Rajeev Ranjan, Prakash Biswas\* and K. K. Pant

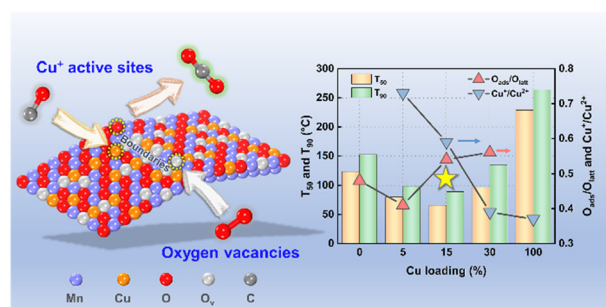
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### Intelligent method for analysis of the active phase of hydrogenation catalysts: stripe phase identification of UC-S/SC-S

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### Engineering the grain boundary and surface sites of binary Cu-Mn catalysts to boost CO oxidation

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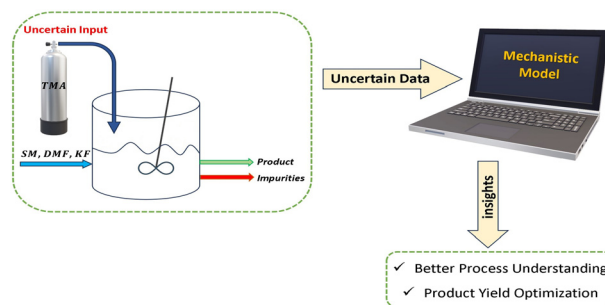


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# Process knowledge for drug substance production via kinetic modeling, parameter estimability analysis and reaction optimization

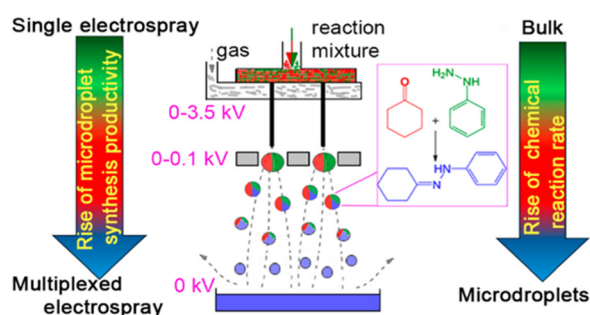
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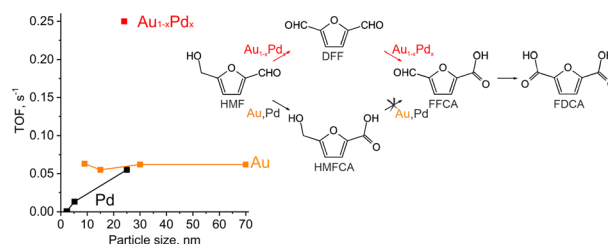
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# Design strategy for effective supported Au–Pd catalysts for selective oxidation of 5-hydroxymethylfurfural under mild conditions

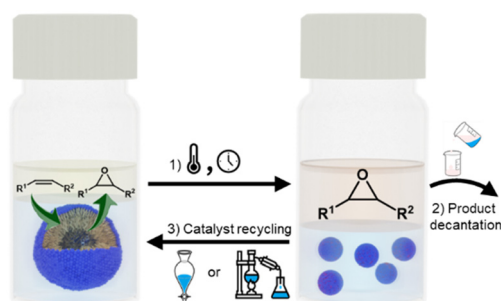
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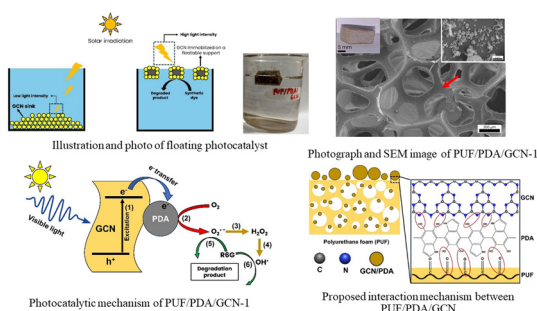
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# Biphasic phase-transfer catalysis: epoxidation of vegetable oils by surface active ionic liquids in water

Markus Hegelmann, Wilson F. Bohórquez, Johannes Luibl, Andreas Jess, Alvaro Orjuela and Mirza Cokoja\*



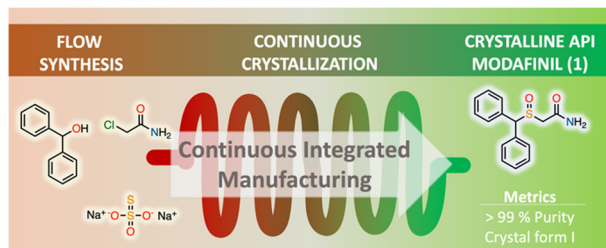
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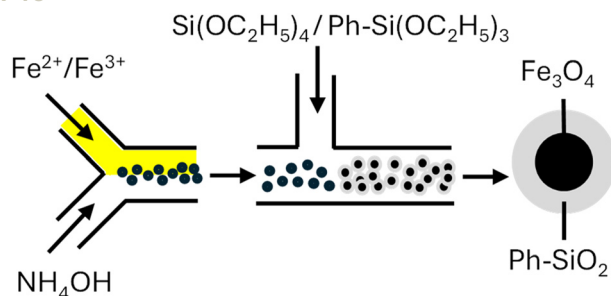
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### Continuous flow synthesis and crystallization of modafinil: a novel approach for integrated manufacturing

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Andrea du Preez, André M. Strydom, Derek T. Ndinteh and Elize Smit\*

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### Reliable sizing-up of the 3D curved circular microchannel reactor for continuous flow synthesis of a zidovudine intermediate

Haohui Yan, Yan Chen, Peiwen Liu, Weiping Zhu\* and Fang Zhao\*

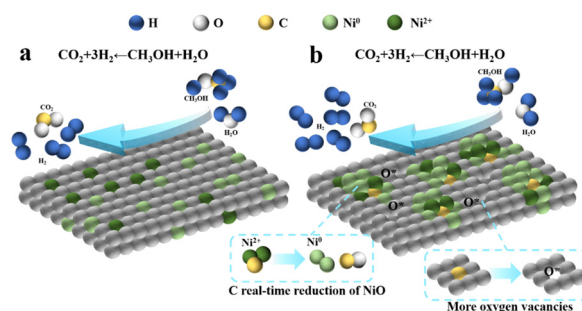


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# Hydrogen production by aqueous phase reforming of methanol over stable C-modified NiMgAl hydrotalcite catalyst

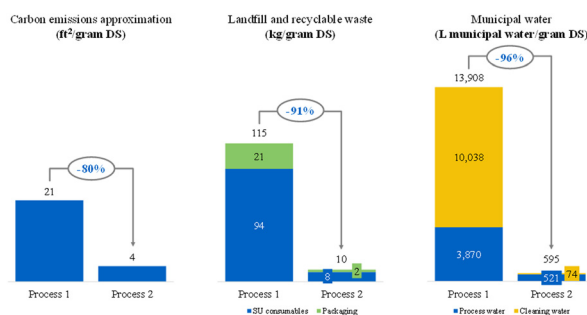
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# Environmental sustainability assessment as a driver for selection of the manufacturing processes of a bispecific T-cell engager

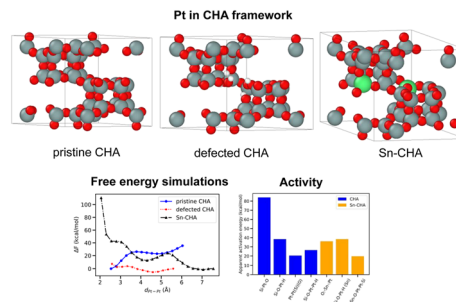
Monica Gabriela, Benjamin T. Smith, Bart Connors, Marc Leslie, Adam Hartwick, Kevin Gant and Margaret M. Faul\*



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# Effect of defects and framework Sn on the stability and activity of Pt clusters for ethane dehydrogenation in chabazite zeolite

Sanjana Srinivas, Dionisios G. Vlachos and Stavros Caratzoulas\*



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# Computer-aided multi-objective optimization integrated with multi-dimensional assessment for oil to chemical process

Xin Zhou, Zhibo Zhang, Huibing Shi, Deming Zhao, Yaowei Wang, Hao Yan, Hui Zhao, Yibin Liu,\* Haiyan Luo, Weitao Zhang,\* Xiaobo Chen, Lianying Wu and Chaohe Yang\*

