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Cutting-edge research for a greener sustainable future

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Cover
See Zhicheng Jiang, Daniel CW Tsang, Bi Shi, *et al.*, pp. 5178–5186.

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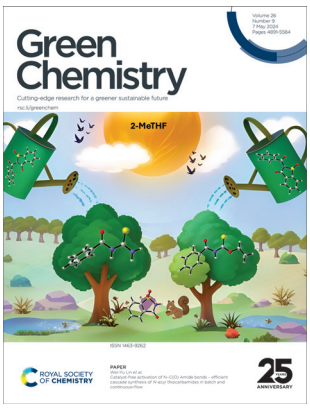

Inside cover
See Wei-Yu Lin *et al.*, pp. 5187–5193.

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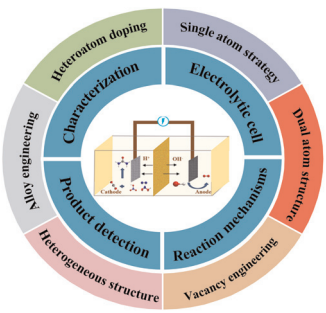
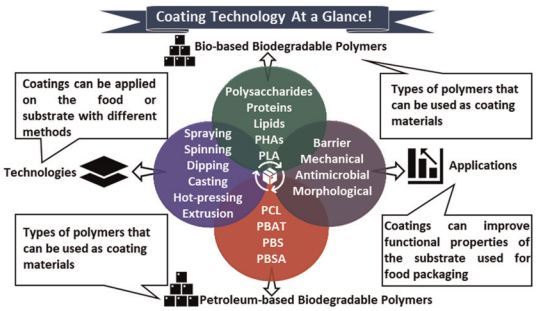
CRITICAL REVIEWS





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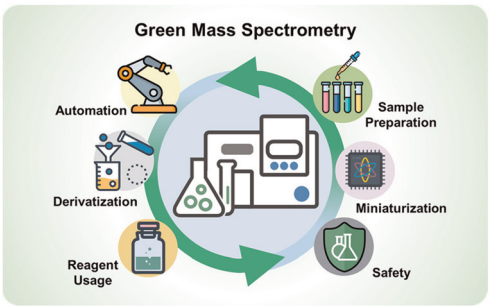
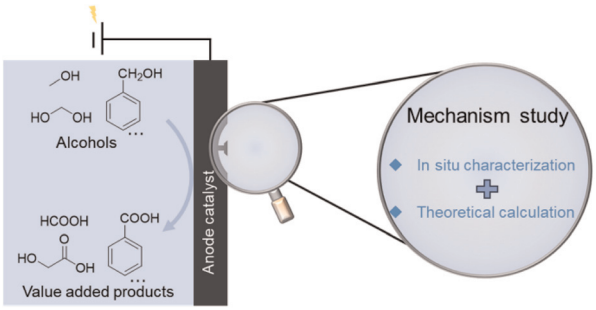
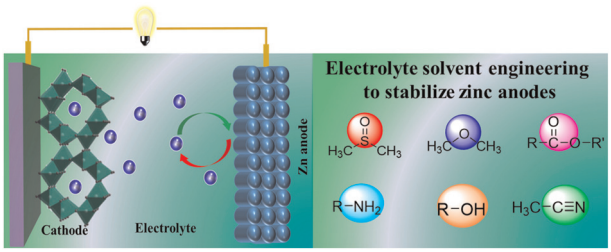
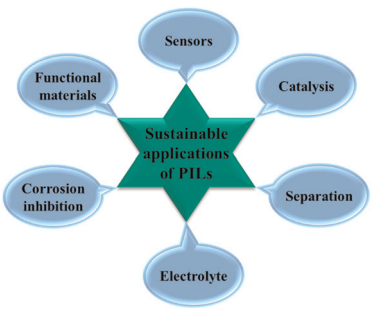
TUTORIAL REVIEWS









TUTORIAL REVIEWS

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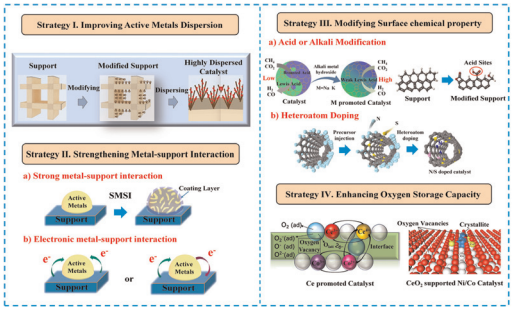

Recent advances in the design of high-performance cobalt-based catalysts for dry reforming of methane

Yinghui Sun,* Yanbin Zhang, Xifei Yin, Chenghu Zhang, Ying Li and Jie Bai*

PERSPECTIVE

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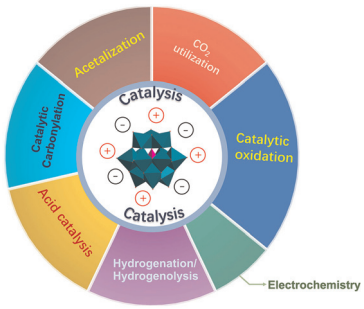

Ionic liquid-stabilized metal oxoclusters: from design to catalytic application

Yunxiang Qiao, Enting Shi, Xinjia Wei and Zhenshan Hou*

COMMUNICATIONS

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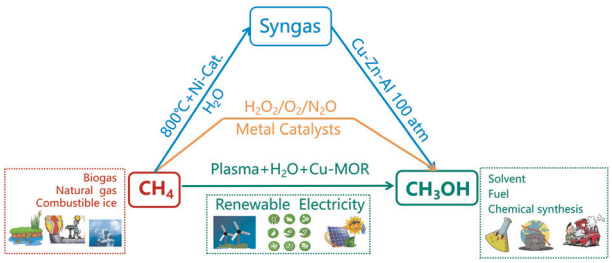

Plasma-catalytic one-step steam reforming of CH_4 to CH_3OH and H_2 promoted by oligomerized [Cu–O–Cu] species on zeolites

Wei Fang, Ximiao Wang, Shangkun Li, Yingzi Hao, Yuping Yang, Wenping Zhao, Rui Liu, Dongxing Li, Chuang Li, Xiaoxia Gao, Li Wang, Hongchen Guo and Yanhui Yi*

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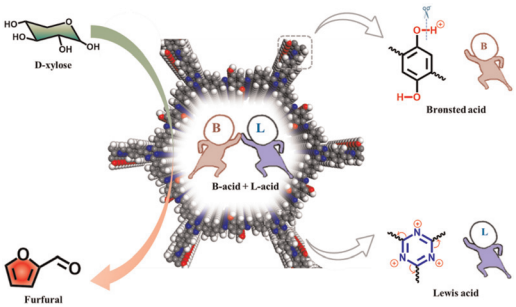

One-pot furfural production from sustainable biomass-derived sugars using a functionalized covalent organic framework as a heterogeneous catalyst

Peng Gan, Kai Zhang,* Zhihao Li, Chengxiang Zhang, Guihua Yang,* Lei Zhang, Baobin Wang and Jiachuan Chen*

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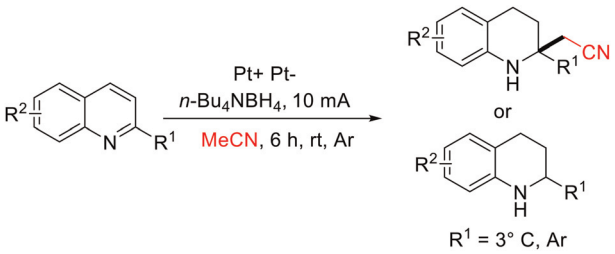

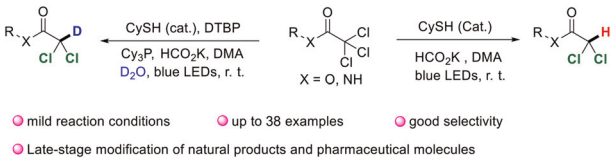

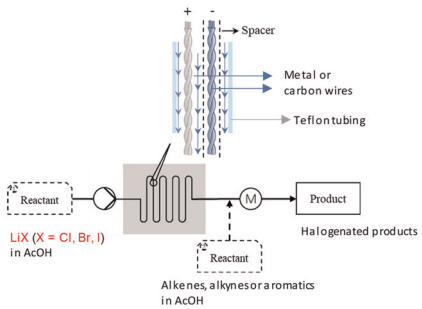

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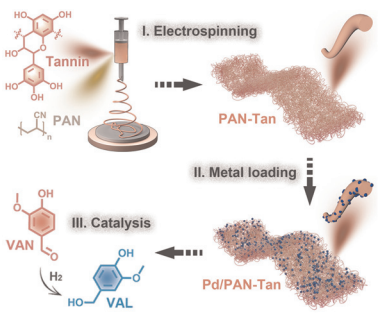

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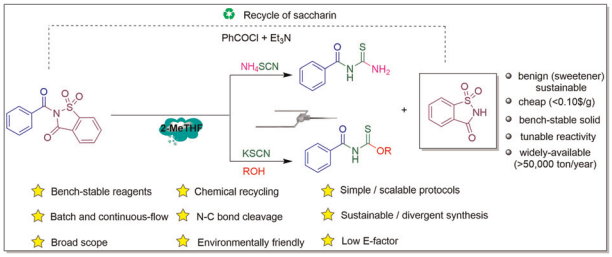

Catalyst-free activation of N–C(O) Amide bonds – efficient cascade synthesis of *N*-acyl thiocarbamides in batch and continuous-flow

Karthick Govindan, Nian-Qi Chen and Wei-Yu Lin*

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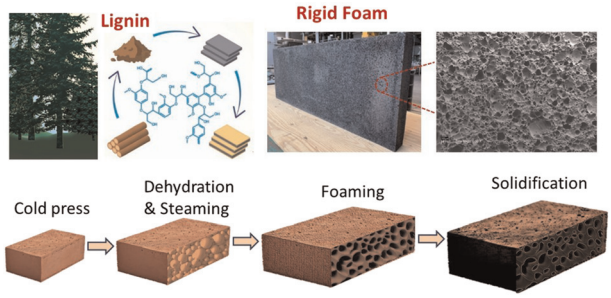

Eco-foaming lignin for innovative rigid foam

Qiangu Yan, Timothy Ketelboeter, Wenjun Fan, Caixia Wan* and Zhiyong Cai*

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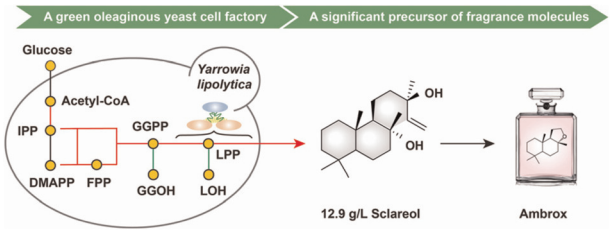

Constructing a green oleaginous yeast cell factory for sustainable production of the plant-derived diterpenoid sclareol

Mei-Li Sun, Yuting Han, Xiao Yu, Kaifeng Wang, Lu Lin, Rodrigo Ledesma-Amaro and Xiao-Jun Ji*

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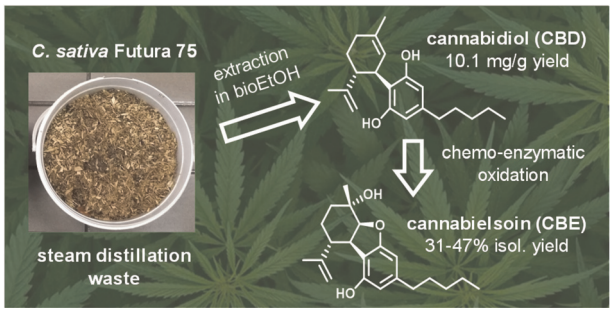

Valorisation of the industrial hemp residue from essential oil production by recovery of cannabidiol and chemo-enzymatic conversion to cannabielsoin

Daniele Fiorito, Davide Tessaro, Fabio Sangalli, Celeste Nobbio, Mario Nebuloni, Matteo Vezzini, Elisabetta Brenna and Fabio Parmeggiani*

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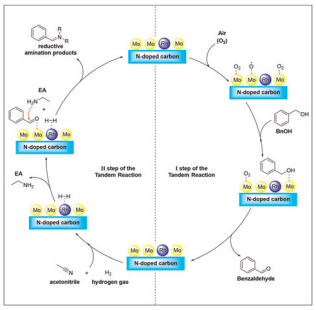

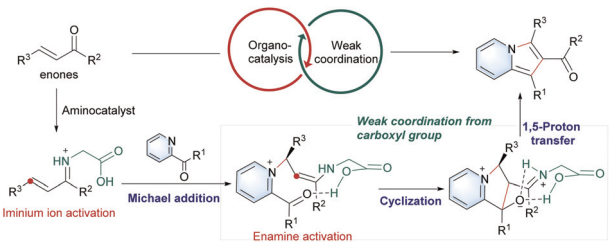

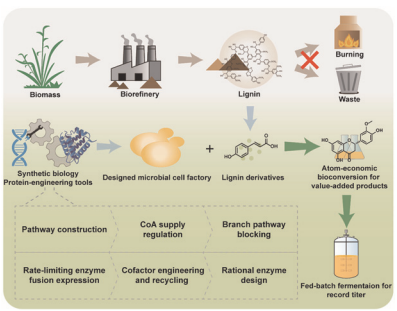

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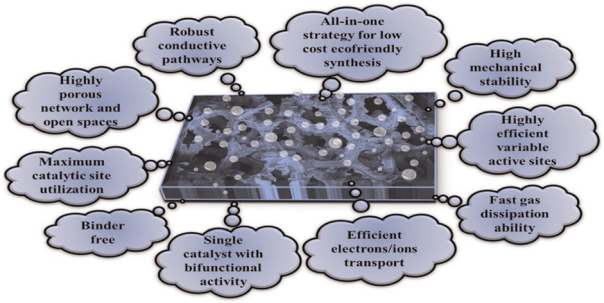

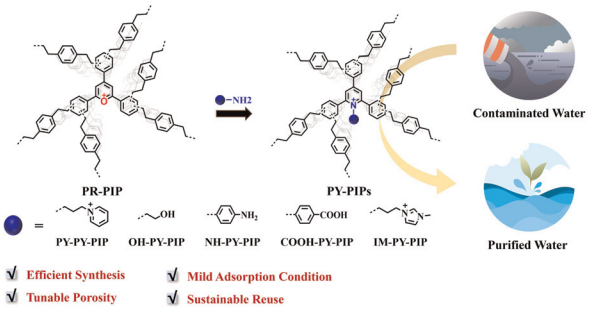

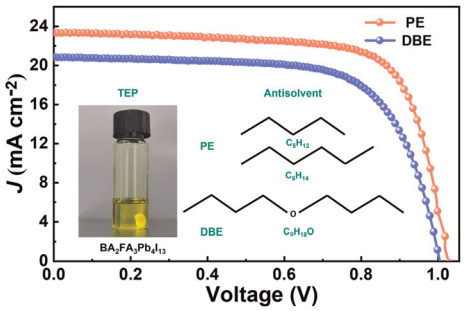

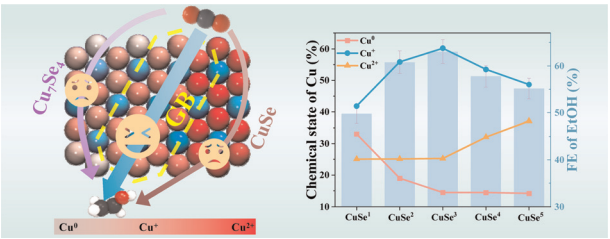

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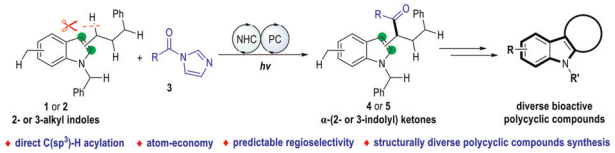

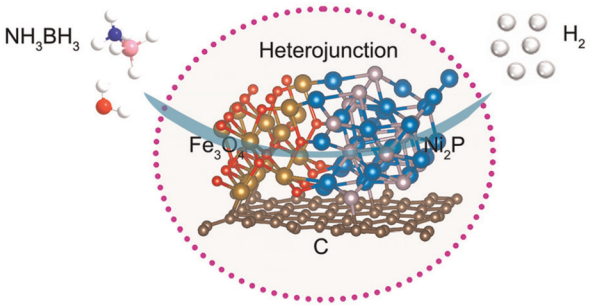

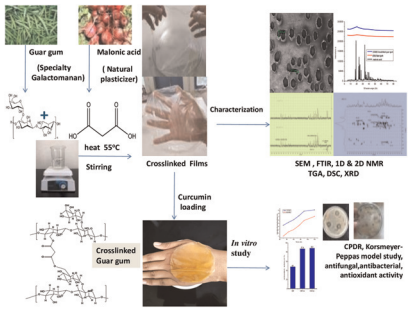

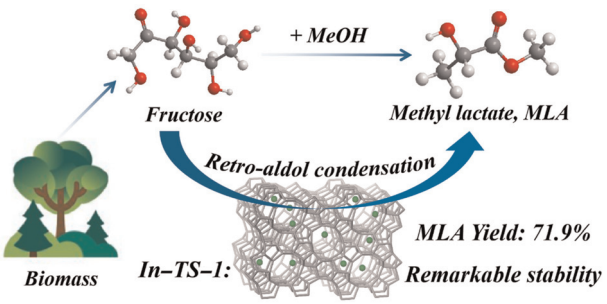

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