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See Zhiyong Jason Ren *et al.*, pp. 9115–9125.

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Inside cover
See Mingyang Chen, Ling Zhou *et al.*, pp. 9126–9137.

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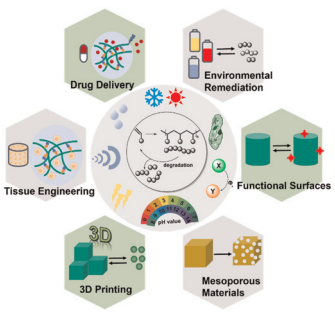
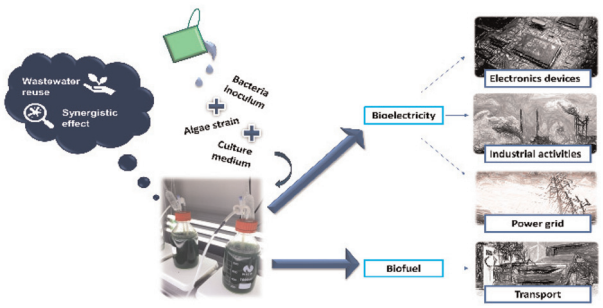
TUTORIAL REVIEWS





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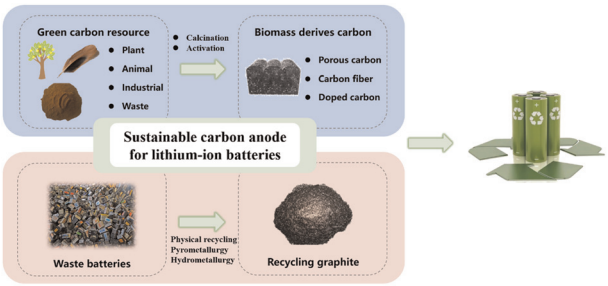
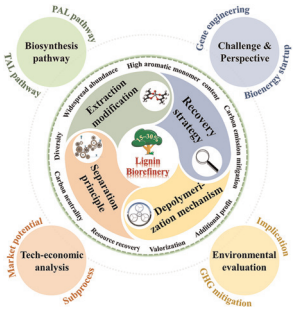
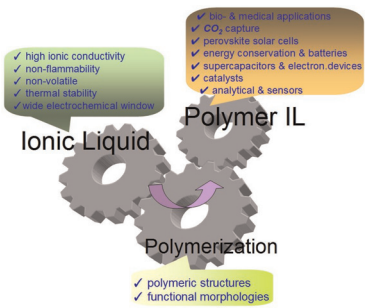
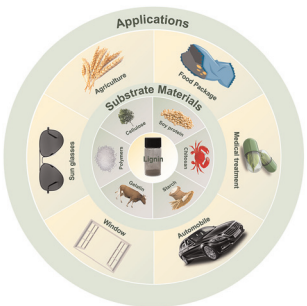




CRITICAL REVIEWS





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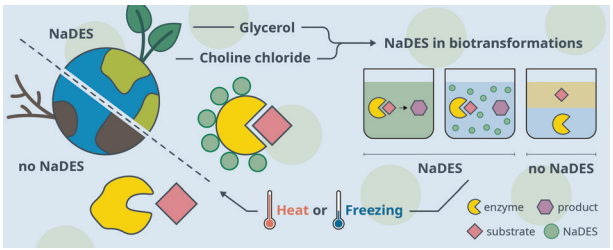

Natural deep eutectic solvents (NaDES): translating cell biology to processing

Miša Mojca Cajnko, Filipa A. Vicente,* Uroš Novak and Blaž Likozar

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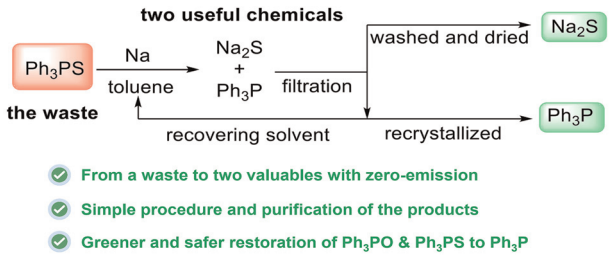

Restoration of triphenylphosphine using the "sulfur method": two valuable chemicals from waste products

Jian-Qiu Zhang, Xin Wang, Teng Wang, Tieqiao Chen and Li-Biao Han*

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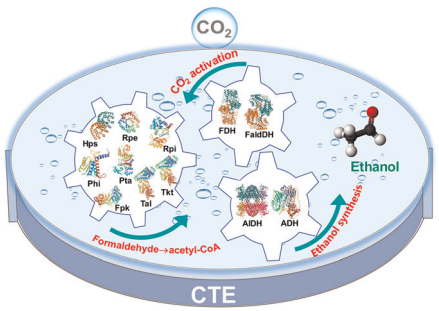

A cell-free artificial anabolic pathway for direct conversion of CO_2 to ethanol

Wanrong Dong, Xiuling Ji, Yuhong Huang,* Yaju Xue, Boxia Guo, Dongbo Cai, Shouwen Chen* and Suojiang Zhang*

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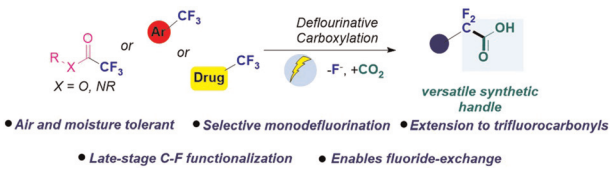

A selective and mild electrochemical defluorinative carboxylation for late-stage C(sp^3)–F bond functionalization

Subhojit Mondal, Soumik Sarkar, Jason W. Wang and Michael W. Meanwell*

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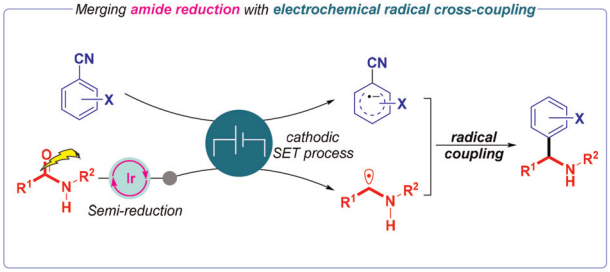

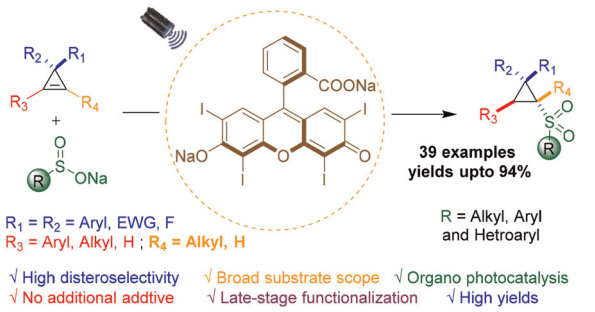

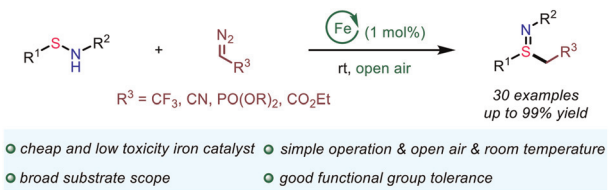

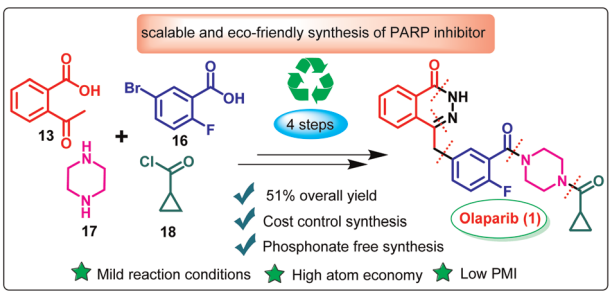

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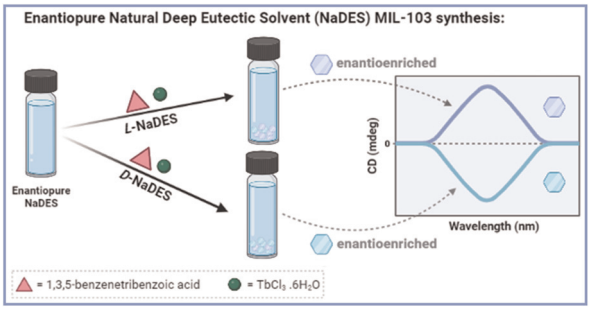
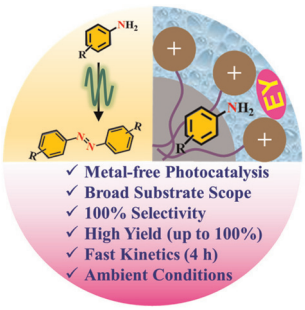


Enantiopure natural deep eutectic solvents for metal–organic framework chiral induction

Renata A. Maia, Audrey Fluck, Catalin Maxim, Benoît Louis* and Stéphane A. Baudron*



Metal-free photocatalysis at charged aqueous interfaces: boosting the photocatalytic oxidative coupling of arylamines to azoaromatics under ambient conditions

Shivendra Singh, Vidhi Agarwal, Tridib K. Sarma* and Tushar Kanti Mukherjee*

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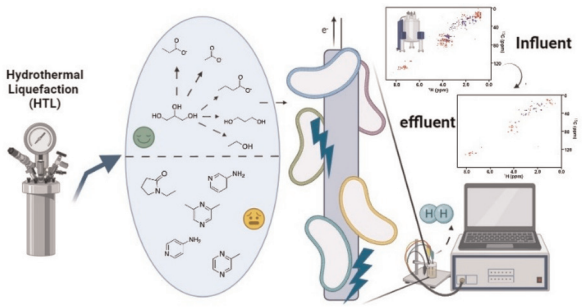
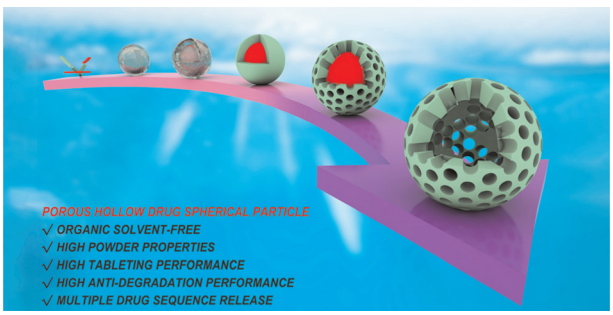


Molecular transformation and metabolic insights of microbial electrolysis treatment and valorization of post-hydrothermal liquefaction wastewater

Jinyue Jiang, Juan A. Lopez-Ruiz, Aaron Leininger, Lin Du, Yuqing Yan, Harold D. May and Zhiyong Jason Ren*



Production of functional spherical particles with porous hollow structures in water *via* oiling-out directional agglomeration

Yanbo Liu, Maolin Li, Jiawei Lin, Xuemei Wei, Guoqi Yu, Kangli Li, Runpu Shen, Mingyang Chen,* Ling Zhou* and Junbo Gong

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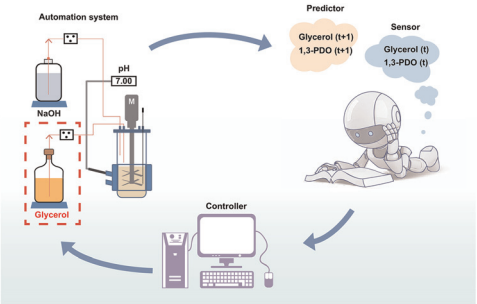

Artificial intelligence system for enhanced automated 1,3-propanediol green biosynthesis

Jiacheng Huang, Chade-Deng Li, Haodong Zhao, Meng Yu, Aihui Zhang* and Baishan Fang*

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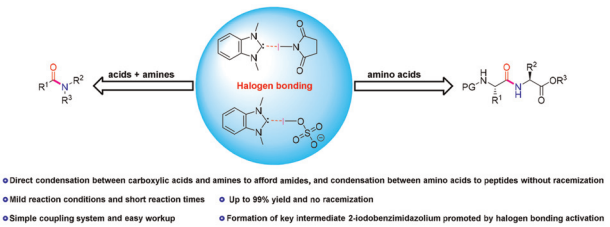

Halogen-bonding-mediated synthesis of amides and peptides

Mingqin Huang, Jun-Jie Li and Chi Zhang*

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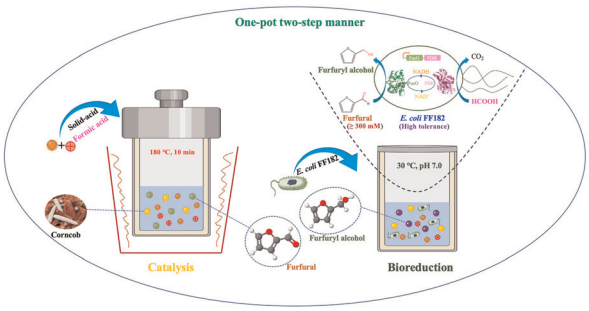

Significantly enhanced bioconversion of high titer biomass-derived furfural to furfuryl alcohol by robust endogenous aldehyde reductase in a sustainable way

Junhua Di, Xiaolong Liao, Qi Li, Yu-Cai He* and Cuiluan Ma*

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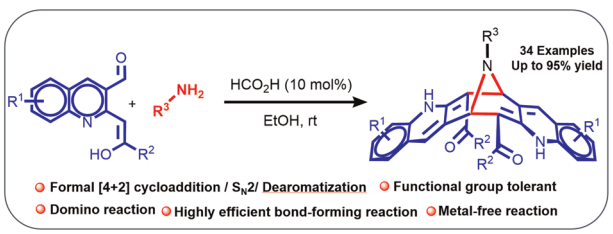

Synthesis of a fused *N*-bridged [3.3.1]nonadiquinoline multicyclic skeleton *via* a metal-free formal [4 + 2] cycloaddition/Mannich/dearomatization domino reaction

Kamran Amiri, Behrouz Nayebzadeh, Mohammad Kamangar, Mohammad Babazadeh, Alireza Ariafard, Farshad Shiri, Frank Rominger and Saeed Balalaie*

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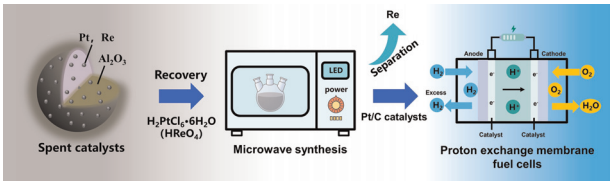

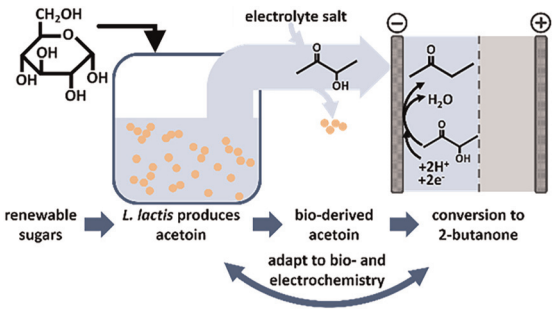

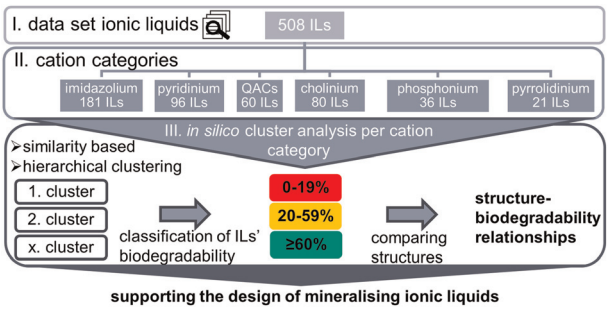

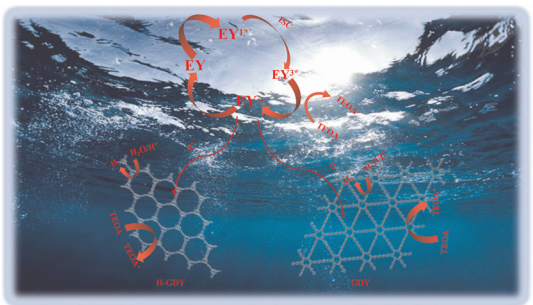

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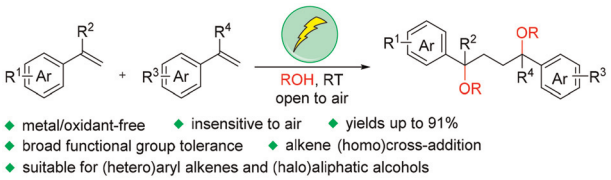

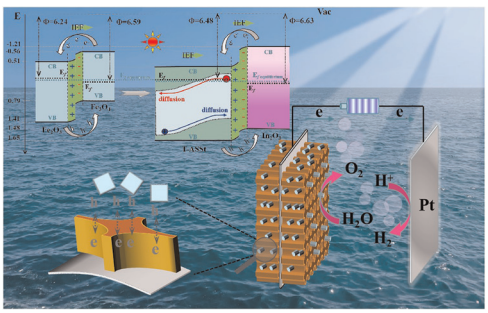

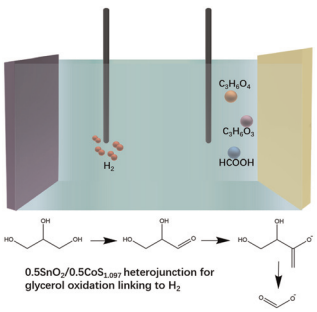

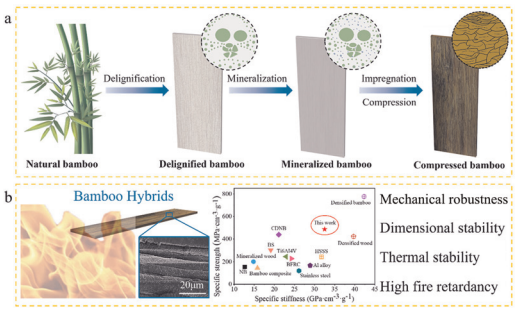

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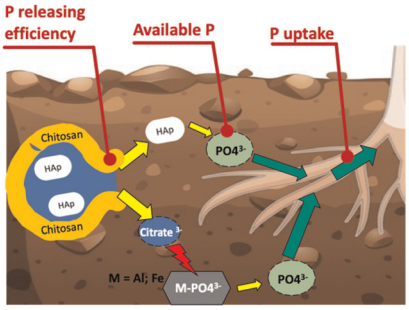

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