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See Javier Pérez-Ramírez, Gonzalo Guillén-Gosálbez *et al.*, pp. 6603–6611.

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CRITICAL REVIEWS

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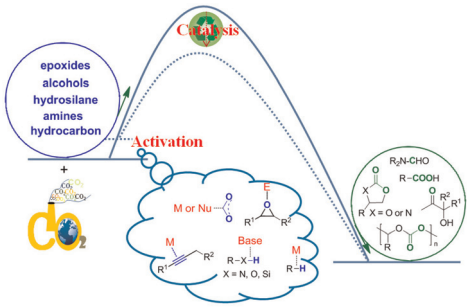
Recent progress in CO_2 conversion into organic chemicals by molecular catalysis

Qing-Wen Song,* Ran Ma, Ping Liu, Kan Zhang and Liang-Nian He*



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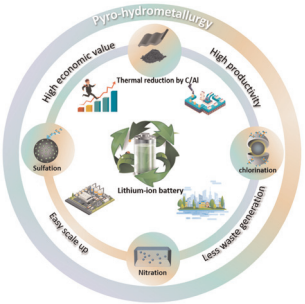

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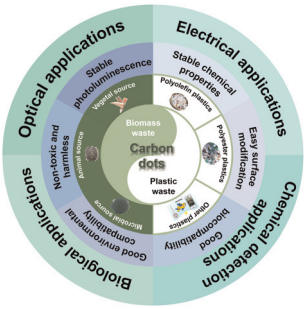
Tairong Kuang,* Mengyao Jin, Xinrui Lu, Tong Liu, Henri Vahabi, Zhipeng Gu and Xiao Gong*



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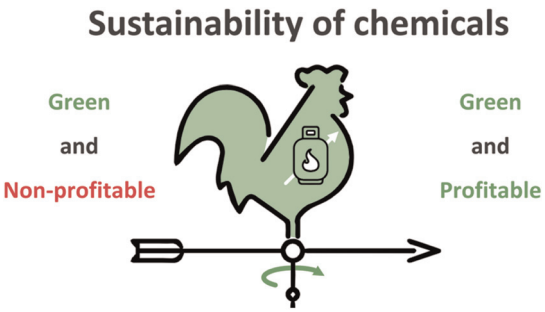
Energy crisis in Europe enhances the sustainability of green chemicals

Abhinandan Nabera, Ioan-Robert Istrate, Antonio José Martín, Javier Pérez-Ramírez* and Gonzalo Guillén-Gosálbez*



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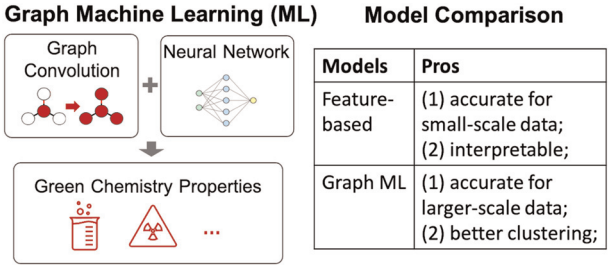

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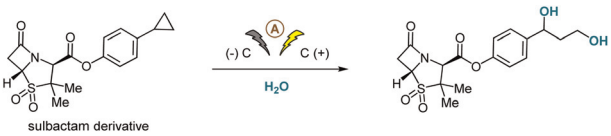

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Jianhua Cai, Yuxi Wen, Wei Sheng, Xuejin Huang, Ye Zheng, Chunlan Song* and Jiakun Li*

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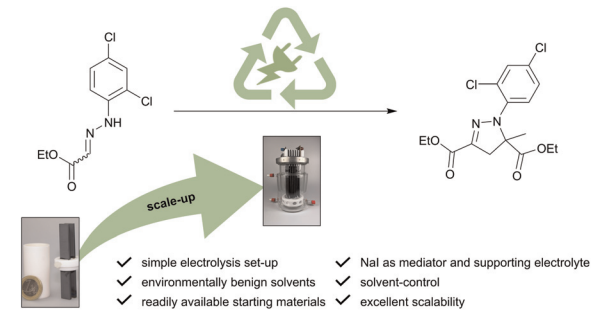

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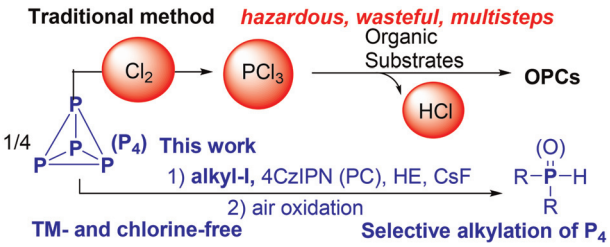

Metal-free visible-light-induced phosphorylation of unactivated alkyl iodides with white phosphorus as the P-atom source

Fushan Chen, Jialiang Peng, Yue Ying, Yinwei Cao, Pengxiang Xu,* Guo Tang* and Yufen Zhao

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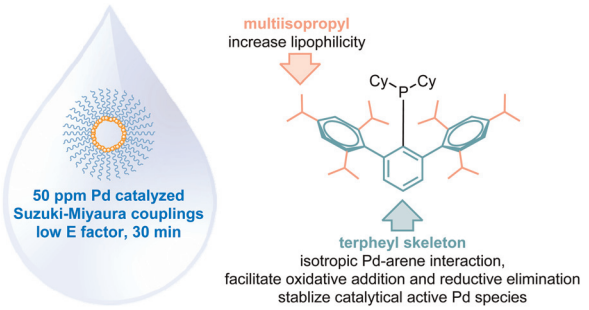
Lei Zhang, Wenbo Hu, Heng Li, Jicheng Shi* and Bingxin Yuan*



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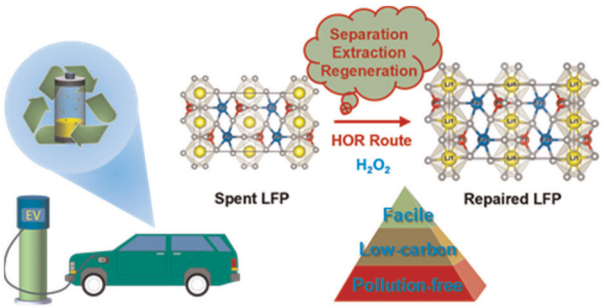
Kang Liu, Junxiong Wang, Mengmeng Wang, Qiaozhi Zhang, Yang Cao, Longbin Huang, Marjorie Valix and Daniel C. W. Tsang*



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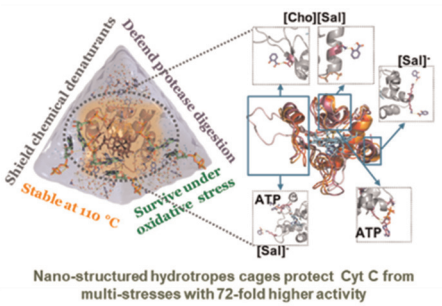

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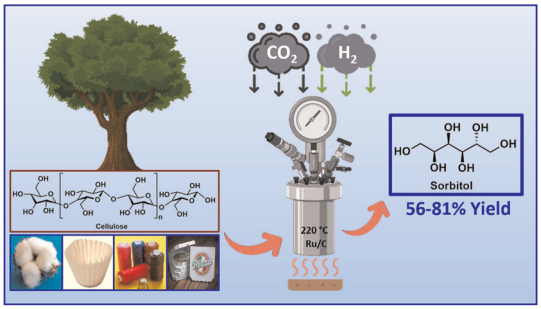

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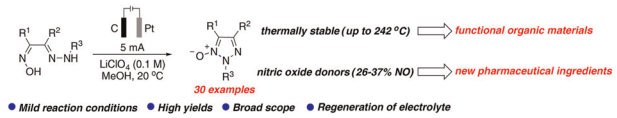

Empowering strategies of electrochemical N–N bond forming reactions: direct access to previously neglected 1,2,3-triazole 1-oxides

Kseniia Titenkova, Alexander D. Shuvaev, Fedor E. Teslenko, Egor S. Zhilin and Leonid L. Fershtat*

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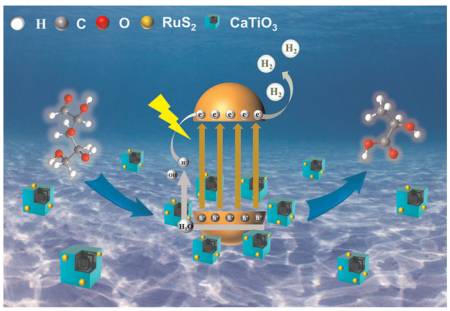

Anchoring RuS_2 on a multi-shelled hollow cube of $CaTiO_3$ for ultrahigh hydrogen evolution with the assistance of a photocatalytic biorefinery

Xinze Li, Jiliang Ma,* Rui Cui, Junqiang Zhang, Zhendong Liu and Runcang Sun*

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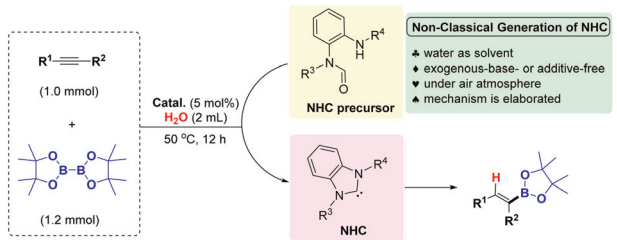

Aqueous hydroboration of alkynes *via* nonclassical generation of N-heterocyclic carbenes

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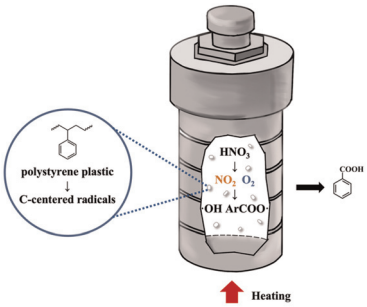
Selective oxidative upgrade of waste polystyrene plastics by nitric acid to produce benzoic acid

Xi Luo, Jiahui Zhan, Qingqing Mei* and Shicheng Zhang*



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Qiao Chu, Zhaoyue Feng, Sumin Zhang, Ping Liu* and Peipei Sun*

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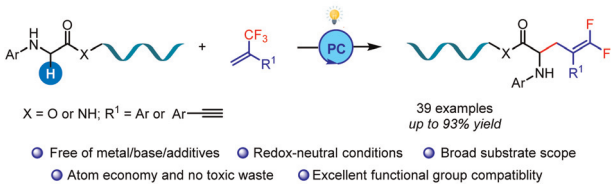
Zi-Hang Yuan, Hong Xin, Lu Zhang, Pin Gao, Xu Yang, Xin-Hua Duan and Li-Na Guo*



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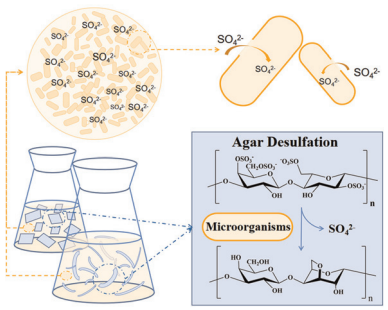
Yang Song, Meixian Wu, Zhen Liu,* Mengjiao Yu, Francesco Secundo and Xiangzhao Mao*



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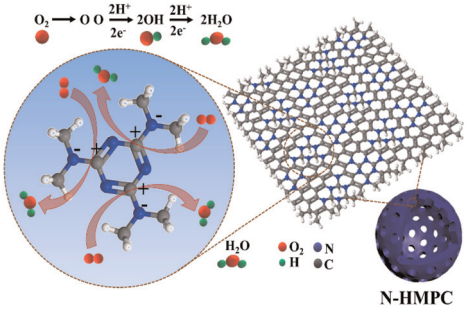

Scalable nitrogen-enriched porous sub-100 nm graphitic carbon nanocapsules for efficient oxygen reduction reaction in different media

Kamel Eid,* Ali A. Abdelhafiz,* Safwat Abdel-Azeim, Rajender S. Varma* and Mohamed F. Shibl

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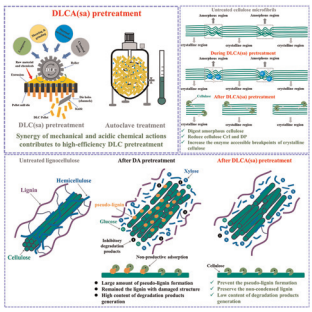

Elucidating the mechanism of densifying lignocellulosic biomass with acidic chemicals (DLC) for lignocellulosic biorefinery

Xinchuan Yuan, Guannan Shen, Sitong Chen, Wenyuan Shen, Xiangxue Chen, Shuangmei Liu and Mingjie Jin*

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Rocco Cancelliere,* Giuseppina Rea,* Leonardo Severini, Luciana Cerri, Gabriella Leo, Elisa Paialunga, Pietro Mantegazza, Claudia Mazzuca and Laura Micheli*

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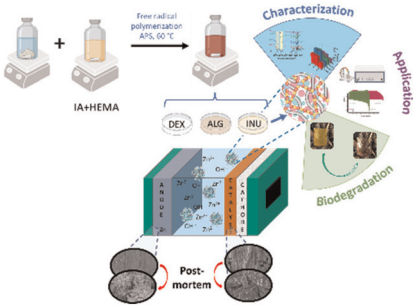

Biopolymeric hydrogel electrolytes obtained by using natural polysaccharide–poly(itaconic acid-*co*-2-hydroxyethyl methacrylate) in deep eutectic solvents for rechargeable Zn–air batteries

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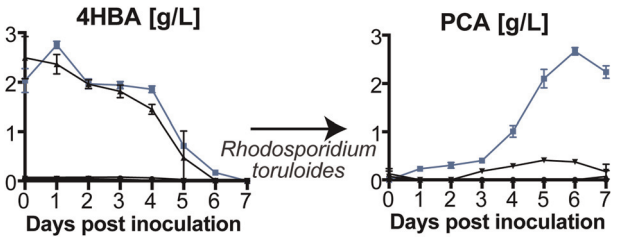

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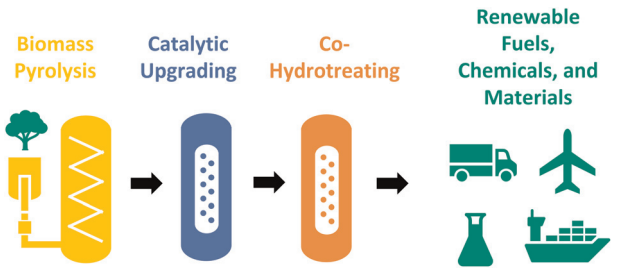

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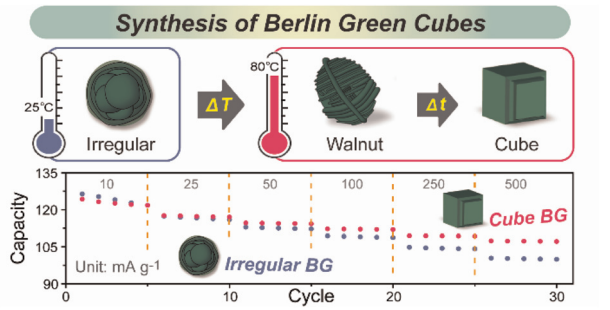
Turning Berlin green frameworks into cubic crystals for cathodes with high-rate capability

Jeong Yeon Heo, Ju-Hyeon Lee, Jin-Gyu Bae, Min Sung Kim, Hyeon Jeong Lee* and Ji Hoon Lee*



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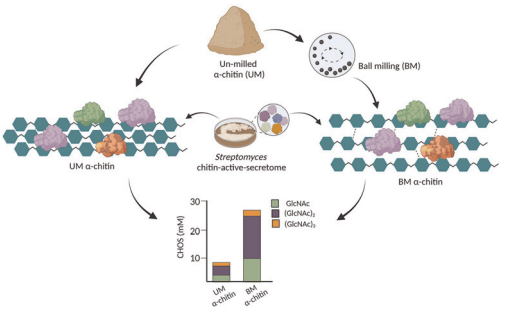
Lal Duhsaki, Saumashish Mukherjee and Jogi Madhuprakash*



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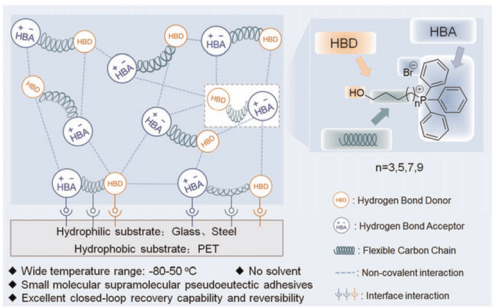

Recoverable solvent-free small molecular supramolecular pseudoeutectic adhesives with a wide temperature range

Mingyi Li, Chenyang Xie, Feng Li, Xingzong Wang, Shiru Wang, Zhihui Qin,* Tifeng Jiao* and Jingyue Yang*

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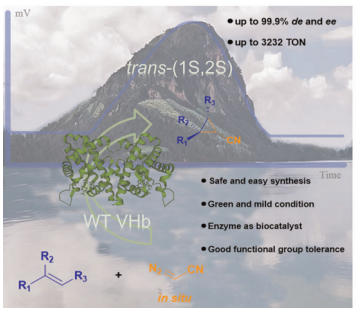

***Vitreoscilla* hemoglobin: a natural carbene transfer catalyst for diastereo- and enantioselective synthesis of nitrile-substituted cyclopropanes**

Hanqing Xie, Fengxi Li, Yaning Xu, Chunyu Wang, Yuelin Xu, Junhao Wu, Zhengqiang Li,* Zhi Wang* and Lei Wang*

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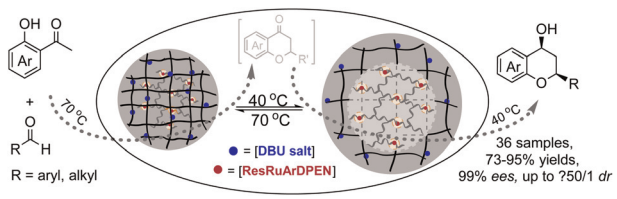

Harmonization of an incompatible aqueous aldol condensation/oxa-Michael addition/reduction cascade process over a core–shell-structured thermoresponsive catalyst

Yu Su, Chengyi Wang, Qipeng Chen, Yuanli Zhu, Shaomin Deng, Shoujin Yang, Ronghua Jin and Guohua Liu*

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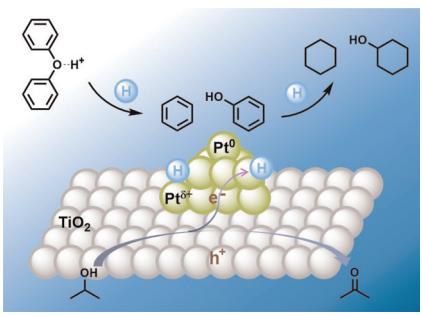

Photocatalytic transfer hydrogenolysis of aryl ethers

Zhikun Peng, Zhixi Wu, Xiaotong Sun and Hongji Li*

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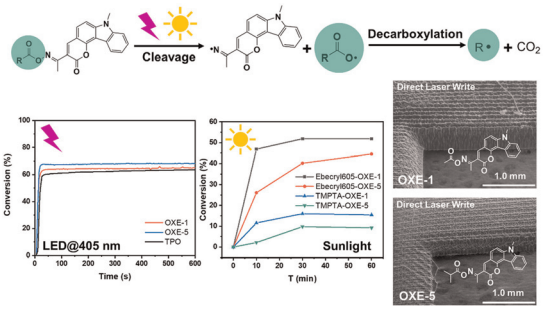
Carbazole-fused coumarin based oxime esters (OXEs): efficient photoinitiators for sunlight driven free radical photopolymerization

Yijun Zhang, Zheng Liu, Timur Borjigin, Bernadette Graff, Fabrice Morlet-Savary, Michael Schmitt, Didier Gigmes, Frédéric Dumur* and Jacques Lalevée*



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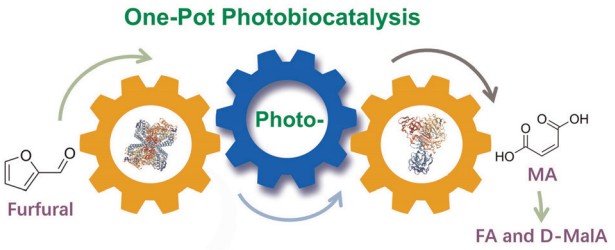
One-pot photoenzymatic synthesis of maleic acid and its derivatives from bio-based furfural *via* catalytic cascades

Si-Mou Zou, Jian-Peng Wang, Min-Hua Zong, Zhi-Lin Wang,* Zhao-Juan Zheng and Ning Li*



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Magnetic hollow micro-sized nanoaggregates for synergistically accelerating PET glycolysis

Ling-Xia Yun, Yan Wei, Qian Sun, Yu-Ting Li, Bin Zhang, Hang-Tian Zhang,* Zhi-Gang Shen and Jie-Xin Wang*