

Green Chemistry

Cutting-edge research for a greener sustainable future

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

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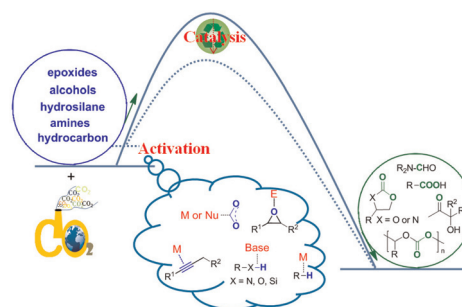


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Recent progress in CO₂ conversion into organic chemicals by molecular catalysis

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

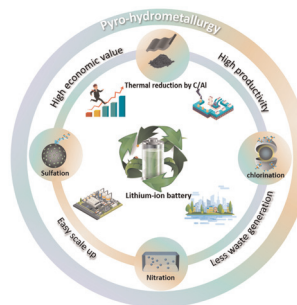


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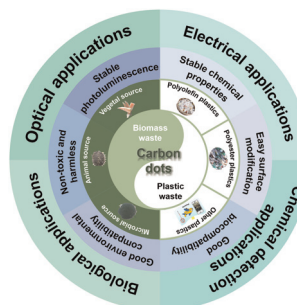
Minyu He, Xi Jin, Xiaogang Zhang, Xinxi Duan, Pengyang Zhang, Liumei Teng, Qingcai Liu and Weizao Liu*



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Functional carbon dots derived from biomass and plastic wastes

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

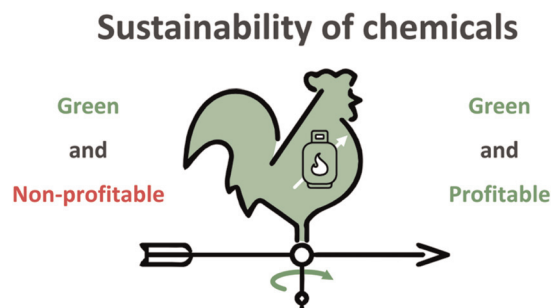


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Energy crisis in Europe enhances the sustainability of green chemicals

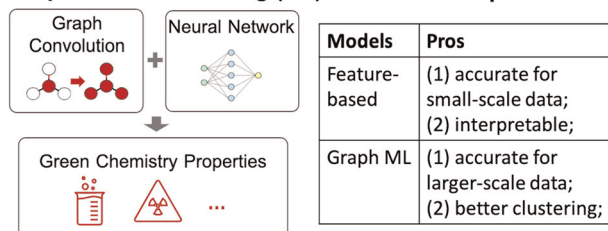
Abhinandan Nabera, Ioan-Robert Istrate, Antonio José Martín, Javier Pérez-Ramírez* and Gonzalo Guillén-Gosálbez*



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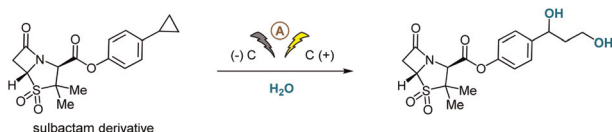
Graph Machine Learning (ML) Model Comparison



Improved environmental chemistry property prediction of molecules with graph machine learning

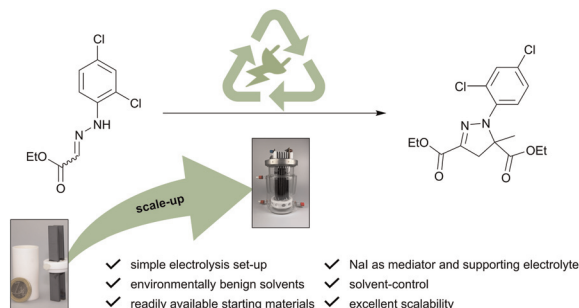
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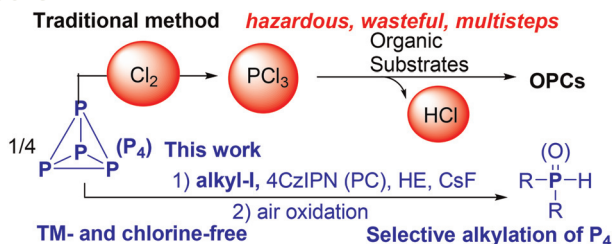
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Fushan Chen, Jialiang Peng, Yue Ying, Yinwei Cao, Pengxiang Xu,* Guo Tang* and Yufen Zhao

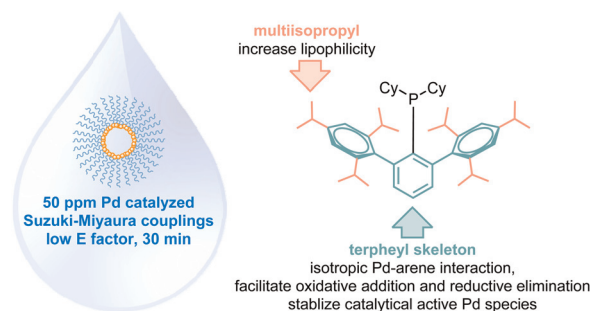


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Lei Zhang, Wenbo Hu, Heng Li, Jicheng Shi* and Bingxin Yuan*

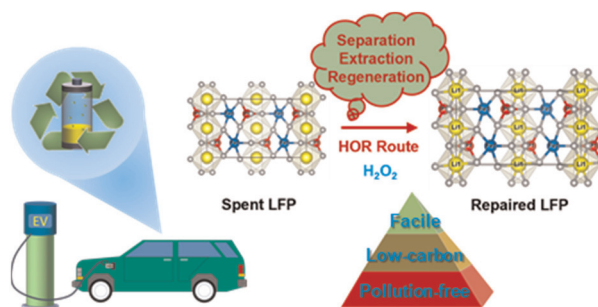


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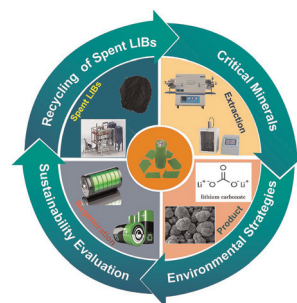
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Stepwise recycling of valuable metals from spent lithium-ion batteries based on *in situ* thermal reduction and ultrasonic-assisted water leaching

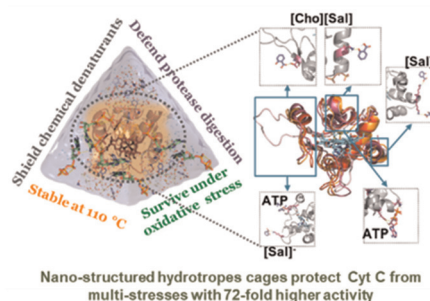
Wei Ding, Shenxu Bao,* Yimin Zhang, Liuyi Ren, Chunfu Xin, Bo Chen, Bo Liu, Junhui Xiao and Xiaochuan Hou



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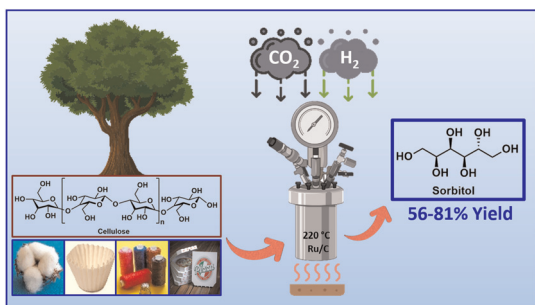
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Daniele Polidoro, Giancarmelo Stamilla, Matteo Feltracco, Andrea Gambaro, Alvise Perosa* and Maurizio Selva*

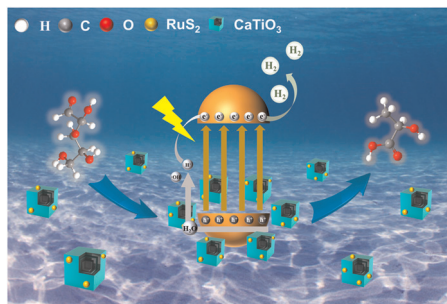
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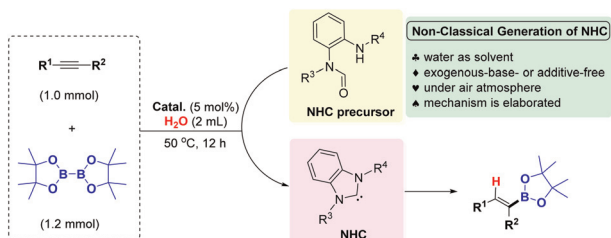
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Xinze Li, Jiliang Ma,* Rui Cui, Junqiang Zhang, Zhendong Liu and Runcang Sun*

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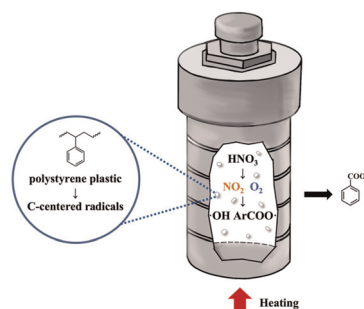


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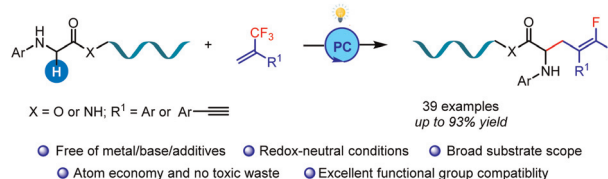
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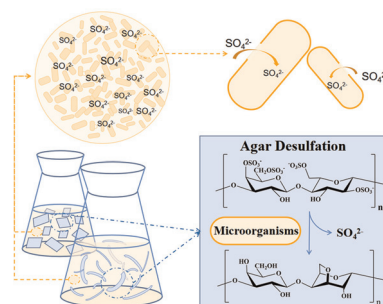
Zi-Hang Yuan, Hong Xin, Lu Zhang, Pin Gao, Xu Yang, Xin-Hua Duan and Li-Na Guo*



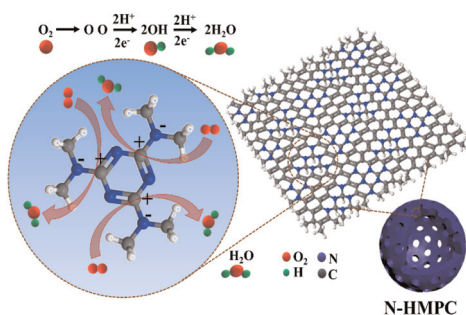
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Quality improvement of agar through desulfation with microorganisms

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



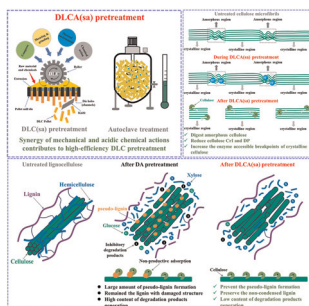
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Xinchuan Yuan, Guannan Shen, Sitong Chen, Wenyan Shen, Xiangxue Chen, Shuangmei Liu and Mingjie Jin*

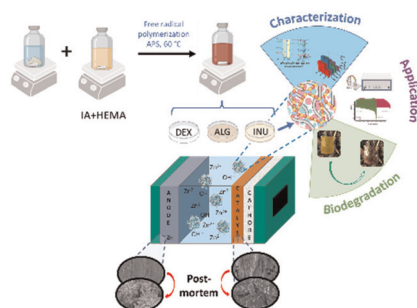
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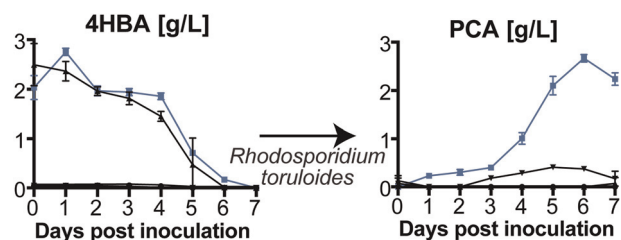


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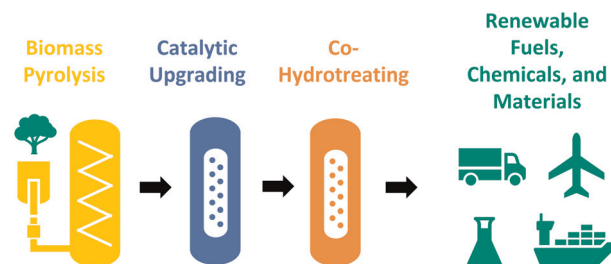
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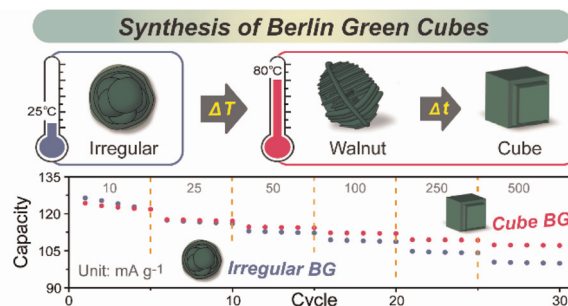
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Turning Berlin green frameworks into cubic crystals for cathodes with high-rate capability

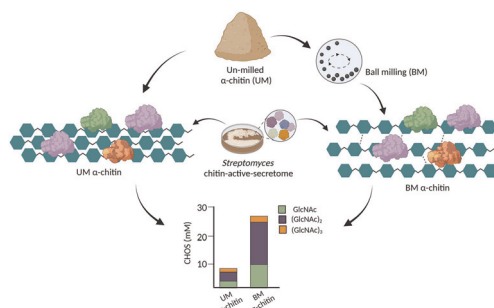
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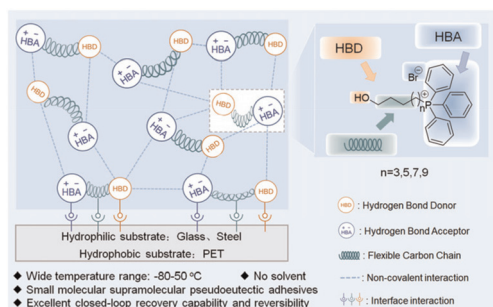
Improving the efficiency and sustainability of chitin bioconversion through a combination of *Streptomyces* chitin-active-secretomes and mechanical-milling

Lal Duhsaki, Saumashish Mukherjee and Jogi Madhuprakash*



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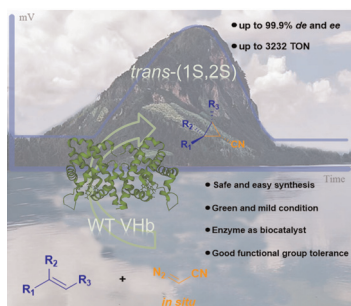
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Recoverable solvent-free small molecular supramolecular pseudoeutectic adhesives with a wide temperature range

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

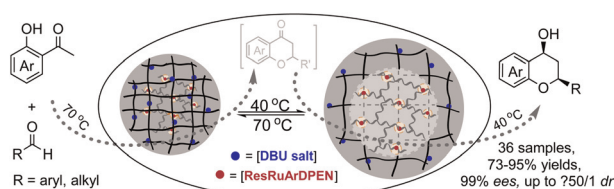
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Vitreoscilla hemoglobin: a natural carbene transfer catalyst for diastereo- and enantioselective synthesis of nitrile-substituted cyclopropanes

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

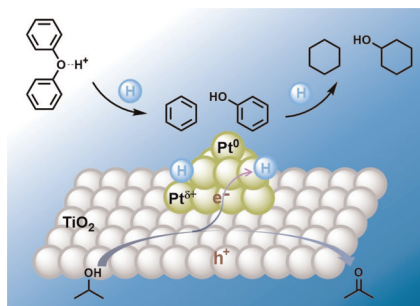
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Harmonization of an incompatible aqueous aldol condensation/oxa-Michael addition/reduction cascade process over a core-shell-structured thermoresponsive catalyst

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*

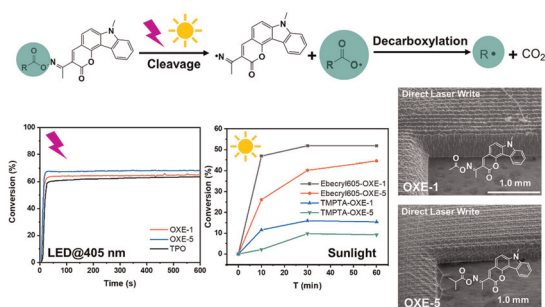


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Carbazole-fused coumarin based oxime esters (OXEs): efficient photoinitiators for sunlight driven free radical photopolymerization

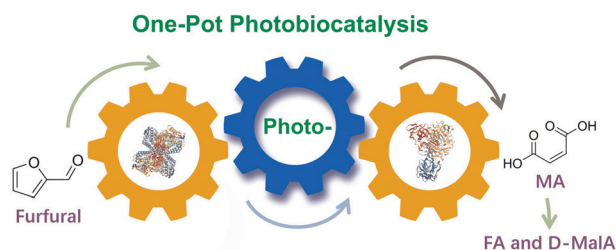
Yijun Zhang, Zheng Liu, Timur Borjigin, Bernadette Graff, Fabrice Morlet-Savary, Michael Schmitt, Didier Gigmes, Frédéric Dumur* and Jacques Lalevée*



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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*

