

Green Chemistry

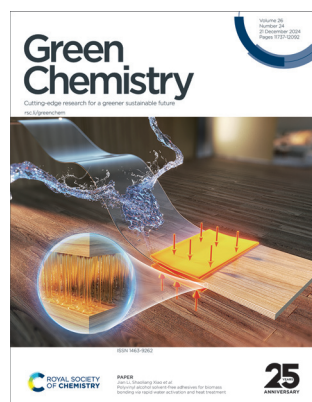
Cutting-edge research for a greener sustainable future

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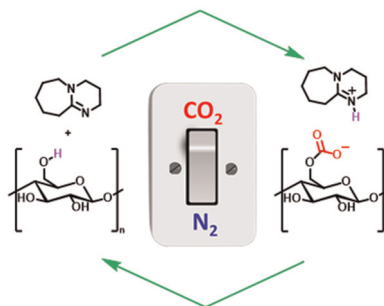
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from *Green Chem.*, 2024, **26**,
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CO₂ switchable solvents for sustainable dissolution, modification, and processing of cellulose materials: a critical review

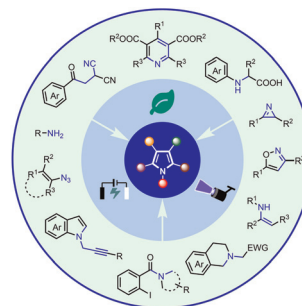
Peter McNeice* and Ben L. Feringa*



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Photo- and electro-chemical synthesis of substituted pyrroles

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Fundamental questions
Elemental answers

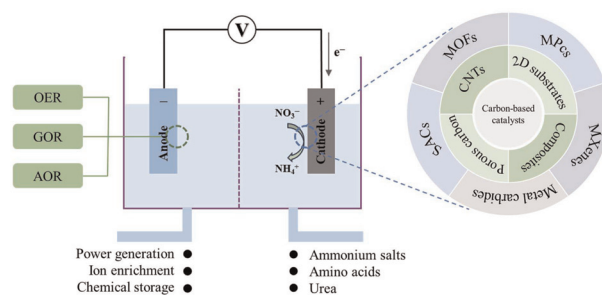


TUTORIAL REVIEWS

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Review of carbon-based catalysts for electrochemical nitrate reduction and green ammonia synthesis

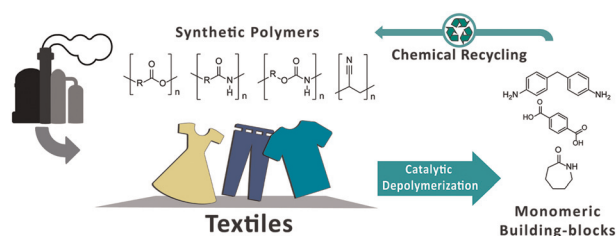
Guanting Liao, Richard L. Smith Jr., Haixin Guo* and Xinhua Qi*



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Advances in catalytic chemical recycling of synthetic textiles

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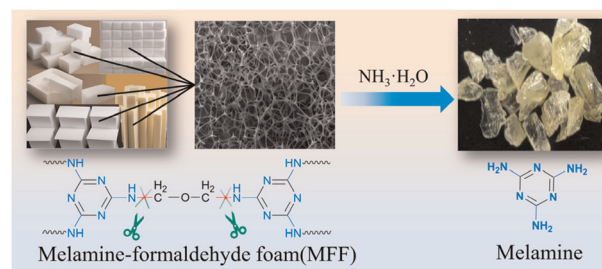


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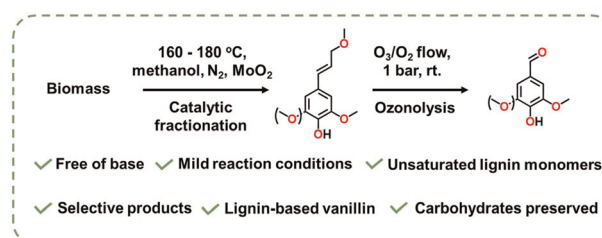
Chaohui Yang, Xinyu Li, Hongyan Li, Chizhou Wang, Qianqian Xing, Xiaoliang Jia, Xiaojing Cui,* Xianglin Hou* and Tiansheng Deng*



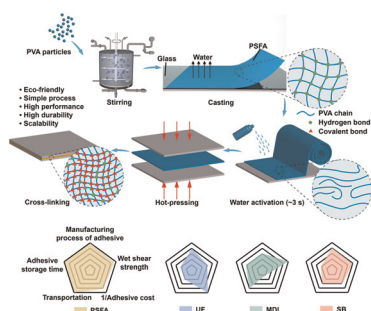
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Green aromatic aldehyde production from biomass via catalytic fractionation and ozonolysis

Tianyu Ren, Peidong Li, Zhuo He, Xinfeng Pan, Yutao Yang, Yuhe Liao, Haiyong Wang, Yanbin Cui* and Chenguang Wang*



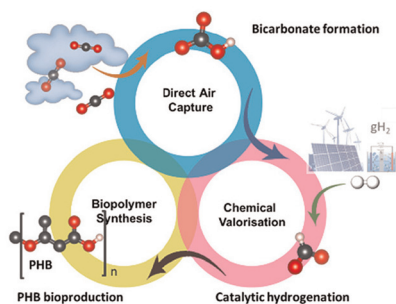
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Polyvinyl alcohol solvent-free adhesives for biomass bonding *via* rapid water activation and heat treatment

Liangxian Liu, Ming Wei, Haiyu Li, Yutong Chen, Yuyan Jiang, Tian Ju, Zetan Lu, Guoqing Mu, Lijian Cai, Dexiu Min, Yanjun Xie, Jian Li* and Shaoliang Xiao*

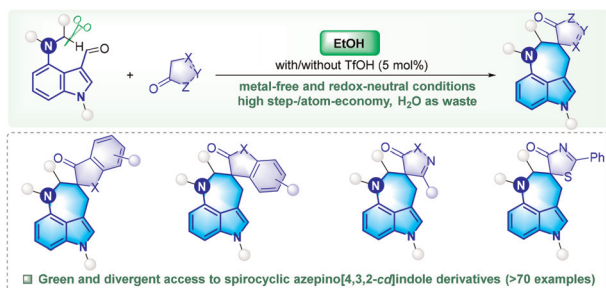
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Manuel Bruch, Julian E. Sanchez-Velandia, Jhonatan Rodríguez-Pereira, Michelle Rich, Nicole Percy, Tanja Narančić, Eduardo Garcia-Verdugo, Victor Sans, Kevin O'Connor* and Marcileia Zanatta*

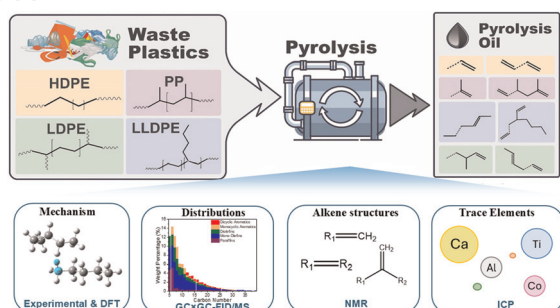
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EtOH-mediated cascade C(sp³)-H alkylation *via* aromatization-driven [1,6]-hydride transfer: green and divergent synthesis of spirocyclic azepino [4,3,2-*cd*]indoles

Yao-Bin Shen,* Qian-Hao Zhuang, Xiao-Lin Wang, Xiao-De An, Bin Qiu, Tiesheng Shi and Jian Xiao*

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The effects of polyolefin structure and source on pyrolysis-derived plastic oil composition

Jiayang Wu, Zhen Jiang, Victor S. Cecon, Greg Curtzwiler, Keith Vorst, Manos Mavrikakis and George W. Huber*

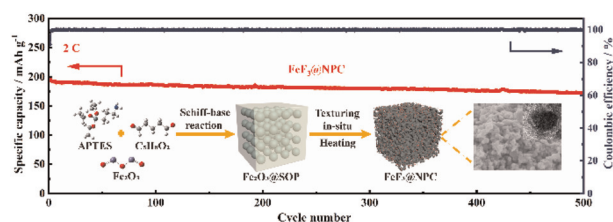


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Engineering *in situ*: N-doped porous carbon-confined FeF₃ for efficient lithium storage

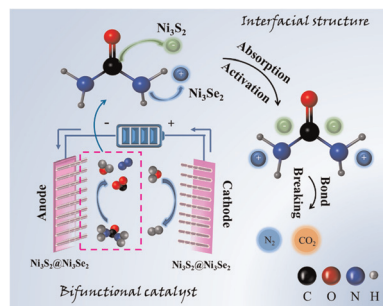
Jinlong Hu, Weijun Xu and Lingzhi Zhang*



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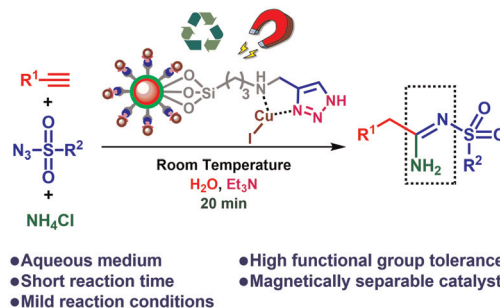
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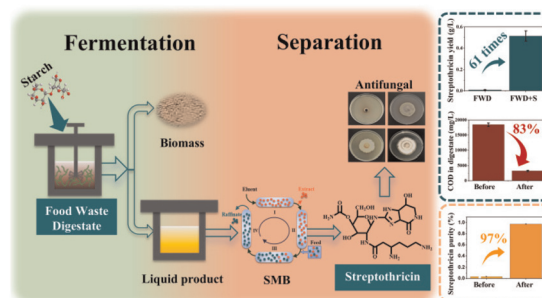
Samrat Charaimuria and Prodeep Phukan*



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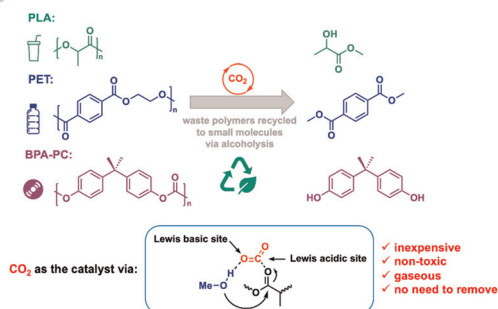
Biological production and simulated moving bed purification of streptothricin F from food waste digestate

Xiaofang Zhou, Peiyi Li, Yuchen Sun, Zeyang Zhang, Chuanyi Yao, Qingbiao Li* and Yuanpeng Wang*



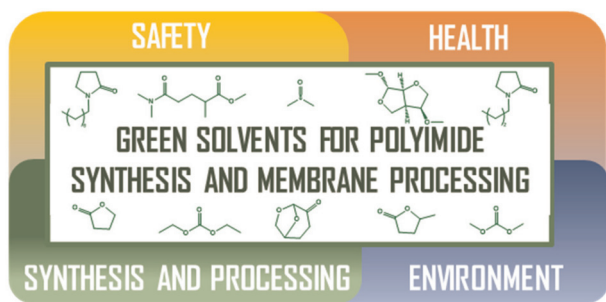
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CO₂ catalyzed recycling of polyester and polycarbonate plastics

Qiao Zhang, Nan Wang, Chenyang Hu, Peng-Yuan Li, Fu-Quan Bai, Xuan Pang,* Xuesi Chen and Xianhong Wang

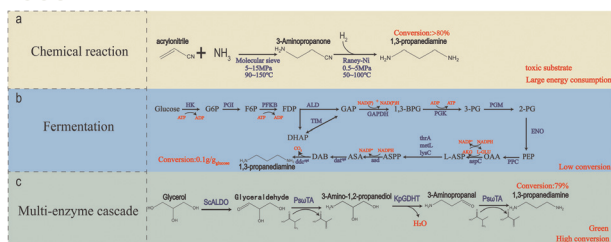
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Green dipolar aprotic solvents for the dynamic polycondensation of high-performance polyimide membranes

E. San José, M. R. de la Viuda,* F. J. Carmona, C. Soto, L. Palacio, P. Prádanos, A. Hernández and A. Tena*

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Yi Li, Qiancheng Liu, Qian Zhang, Xiaoxiao Li, Yang Yang, Pan Wang, Kui Li, Ying Li, Fei Zhong, Qi Liu, Yun Zheng, Xulin Yang* and Peng Zhao*

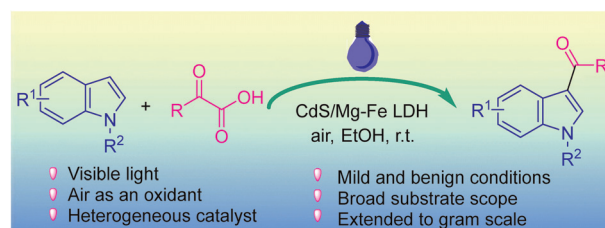


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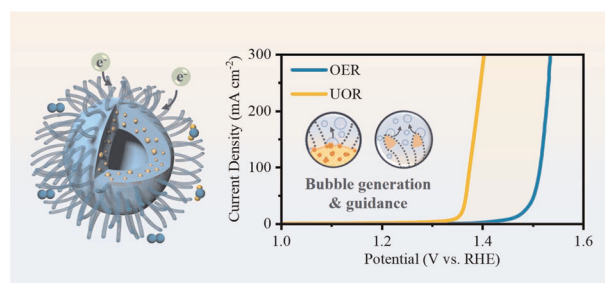
Jun-Bo Wang, Tong Yue, Ling Xu, Zhi-Qiang Hao* and Zhan-Hui Zhang*



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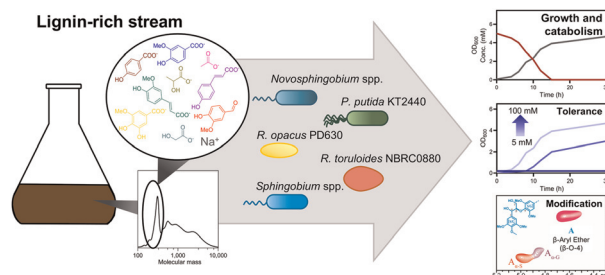
Yuqing Chen, Binyang Liu, Xuesong Liu, Jiahui Ye, Kuan Deng, Chengjie Wu, Qiang Niu, Tao Yang, Wen Tian and Junyi Ji*



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Comparison of microbial strains as candidate hosts and genetic reservoirs for the valorization of lignin streams

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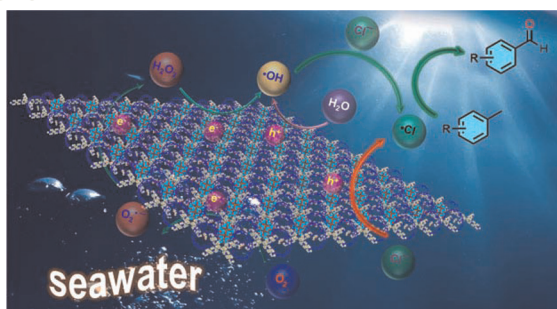
Ball milling-promoting difunctionalization of alkynyl sulfonium salts with sulfinic acids towards (Z)-1,2-disulfonylethenes

Li-Hua Yang, Bei Li, Lin Chen, Wen-Shi Yao, Han-Yue Peng, Sha Peng* and Long-Yong Xie*



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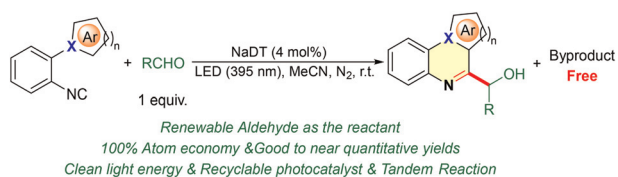
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Yan Fan, Yi Luo, Xu Luo and Xin-Long Ni*

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Hong-Tao Ji, Qiong-Hui Peng, Jia-Sheng Wang, Yu-Han Lu, Hui Dai, Qing-Xia Luo and Wei-Min He*

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Sereena Sunny and Ramasamy Karvembu*

