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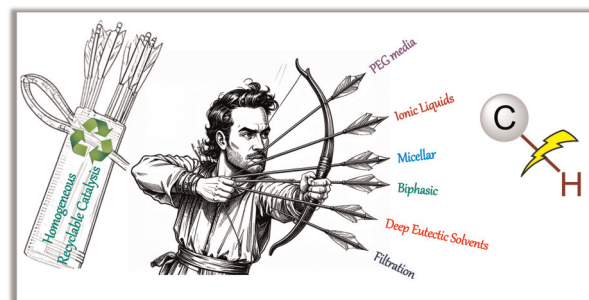
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TUTORIAL REVIEW

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Green innovations in C–H bond functionalisation: exploring homogeneous recyclable catalytic systems

Dewal S. Deshmukh, Sanjay Singh,
Kirtikumar C. Badgajar, Vivek T. Humne,
Gajanan V. Korpe* and Bhalchandra M. Bhanage*

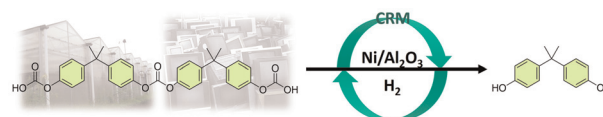


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Monomer recycling of virgin polycarbonate (PC), end-of-life PC and PC-ABS blends by Ni-catalyzed reductive depolymerization

Carlos Marquez,* Annelore Aerts, Dambarudhar Parida,
Illian Glassee, Harisekhar Mitta, Lingfeng Li,
Kevin M. Van Geem, Karolien Vanbroekhoven,
Elias Feghali* and Kathy Elst



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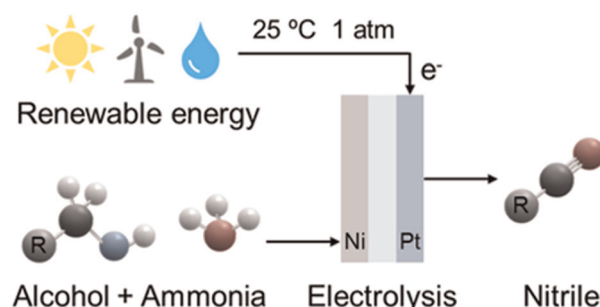
**Fundamental questions
Elemental answers**

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Electrosynthesis of nitriles from primary alcohols and ammonia on Ni catalysts

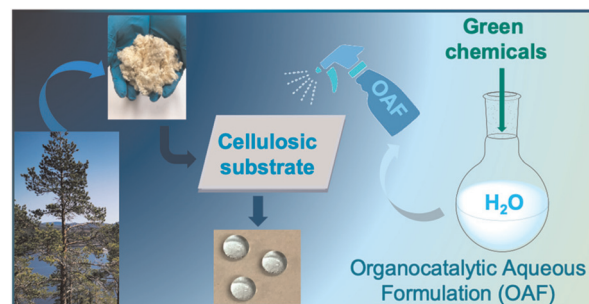
Yiyang Xiao, Chia Wei Lim, Linfeng Gao and Ning Yan*



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Organocatalytic aqueous formulations: green organocatalytic hydrophobization of heterogeneous polysaccharide-based materials in water through "on-water" mechanisms

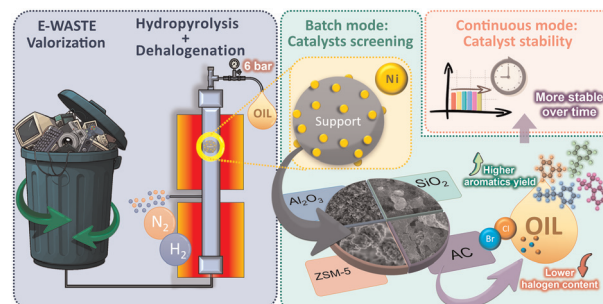
Rana Alimohammadzadeh,* Dylan Ferreira, Zine Eddine Hamdouche, Tanel Möistlik and Armando Córdova*



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Lidia Amodio, Jennifer Cueto, Julio López, Héctor Hernando, Patricia Pizarro and David P. Serrano*



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Closed-loop chemical recycling of polyethylene furan-2,5-dicarboxylate (PEF) under microwave-assisted heating

Sean Najmi, Dylan Huang, Andrew Duncan, Daniel Slanac, Keith Hutchenson, James Hughes, Raja Poladi and Dionisios G. Vlachos*



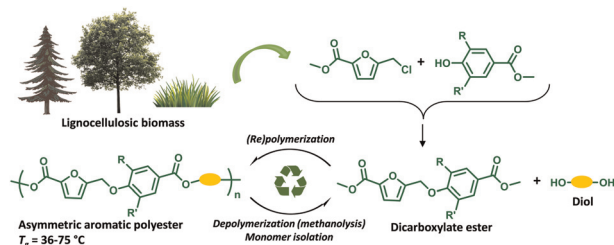
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Electrocatalytic linear coupling of alkenes via radical anion under mild conditions

Jingao Xiao, Feng Long, Sheng Yi, Haifang Luo, Changqun Cai and Hang Gong*

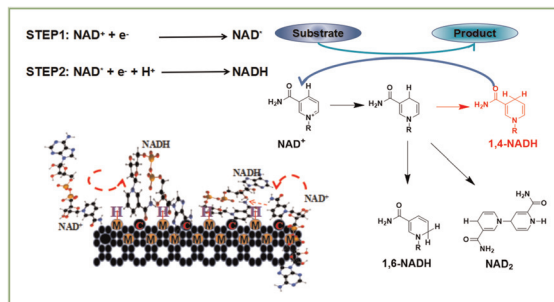
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Closed-loop chemically recyclable aromatic polyesters based on asymmetric dicarboxylates obtainable from lignocellulose

Nitin G. Valsange, Niklas Warlin, Smita V. Mankar, Nicola Rehnberg, Baozhong Zhang* and Patric Jannasch*

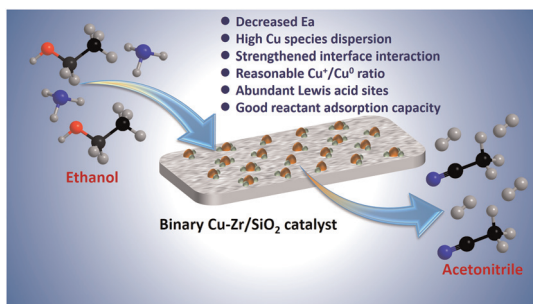
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Metal-carbon electrode optimization for efficient electrochemical regeneration of 1,4-NADH: a new approach for sustainable biochemical synthesis

Yang Zhou, LingLong Huang, Yuan Tao, ChangQing Luo, JianMiao Xu,* ZhiQiang Liu and YuGuo Zheng

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Selective production of acetonitrile via dehydroamination of ethanol over a stable Cu-Zr/meso SiO₂ catalyst

Xiaomin Zhang, Mo Zhou, Yujia Zhao, Jifeng Pang, Pengfei Wu,* Zhen Guo* and Mingyuan Zheng*

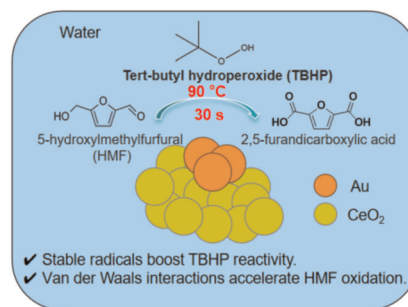


PAPERS

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tert-Butyl hydroperoxide-mediated rapid 30-second oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid

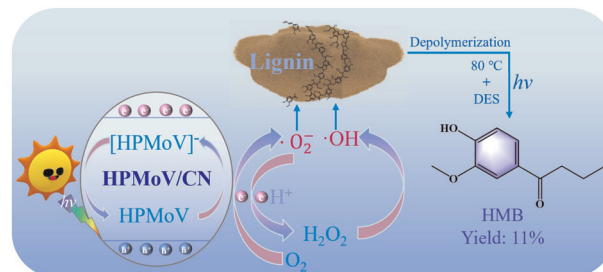
Jian Liu and Ximing Zhang*



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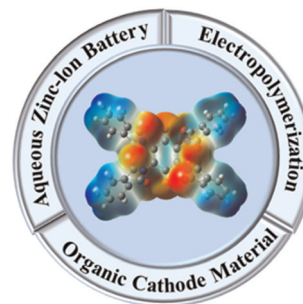
He Wan, Yang Liu, Chunhui Yu, Kuiyuan Cao, Yongwei Han, Zhong Sun, Junyou Shi and Xixin Duan*



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Towards ultra-stable aqueous zinc-ion batteries via electrochemical polymerization of phthalimido-anchored benzoquinone

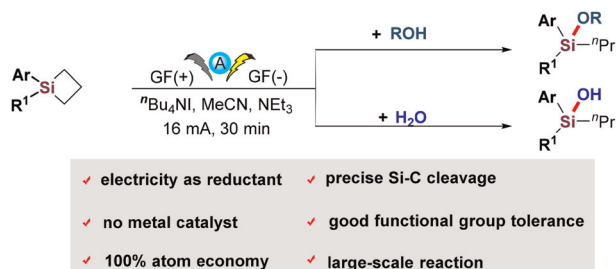
Dan Wang,* Yu-Xuan Bai, Zi-Xiang Zhou, Wei Cao, Yang-Min Ma and Chao Wang*



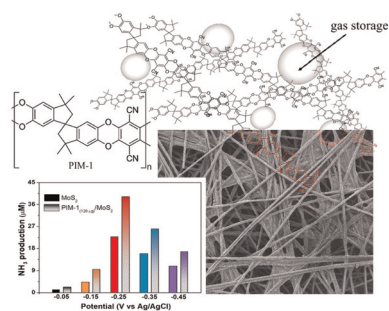
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Electrochemically driven silicon-carbon bond cleavage of silacyclobutanes: a transition metal-free approach

Yuanmeng Li, Jianshu Yue, Yinghui Shao, Yanni Yue,* Hongping Deng, Xiaoli Bu, Mengtao Ma* and Fei Xue*



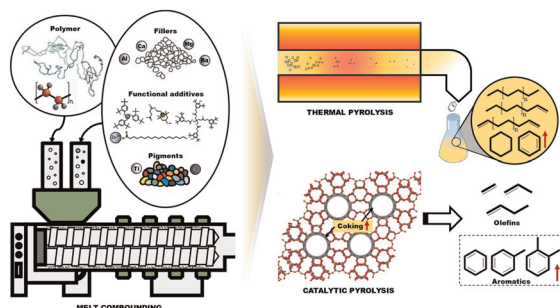
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Enhancing the electroreduction of N_2 and/or O_2 on MoS_2 using a nanoparticulate intrinsically microporous polymer (PIM-1)

Caio V. S. Almeida, Lara K. Ribeiro, Lucia H. Mascaro,*
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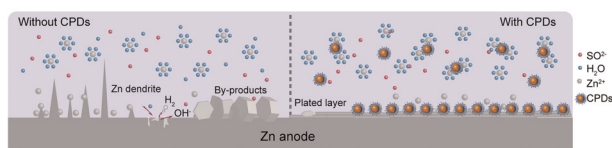
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Influence of functional additives, fillers, and pigments on thermal and catalytic pyrolysis of polyethylene for waste plastic upcycling

Harish Radhakrishnan, Abdulrahman
A. B. A. Mohammed, Isabel Coffman and Xianglan Bai*

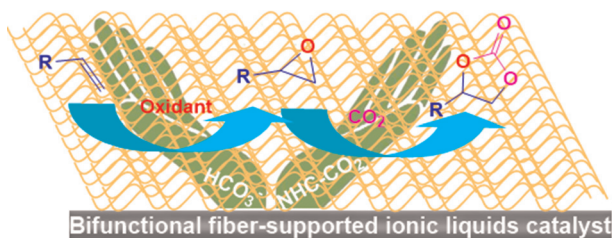
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Carbonized polymer dots as electrolyte additives for suppressing Zn dendrite growth, corrosion, and the HER in Zn-ion batteries

Xiao-Yan Shen, Guo-Duo Yang, Xin-Yao Huang,
Yan-Fei Li, Zhuo Wang, Tong Wang, Ru-Yi Liu,
Yi-Han Song, Ming-Xiao Deng* and Hai-Zhu Sun*

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Tandem reaction of olefins and CO_2 to cyclic carbonates over polyetheretherketone fiber-supported ionic liquids *via* relay catalysis in a spinning basket reactor

Xian-Lei Shi,* Ruifeng Jing, Qianqian Hu,
Honghui Gong, Jingyi Wang, Gang Xu, Bowen Liu* and
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