

Green Chemistry

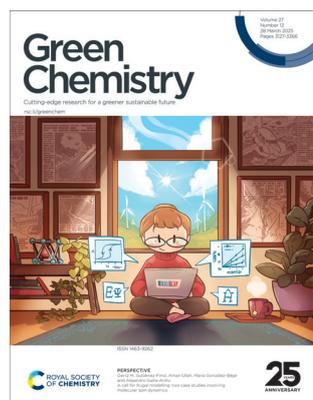
Cutting-edge research for a greener sustainable future

rsc.li/greenchem

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Inside cover

See Alexander M. Kirillov *et al.*, pp. 3178–3185.

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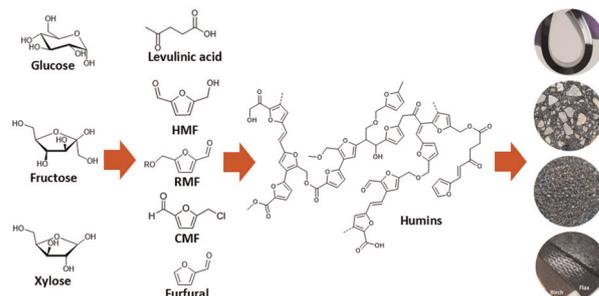
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Gerliz M. Gutiérrez-Finol, Aman Ullah, María González-Béjar and Alejandro Gaita-Ariño*



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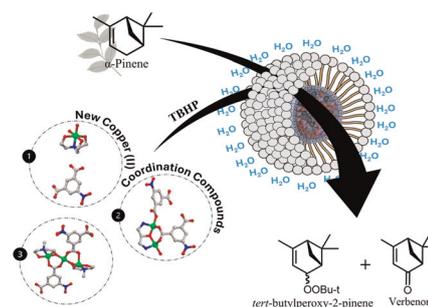
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Fundamental questions
Elemental answers

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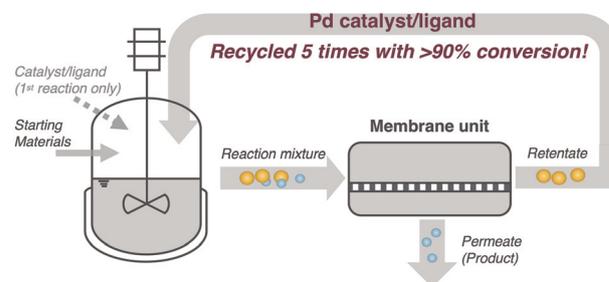
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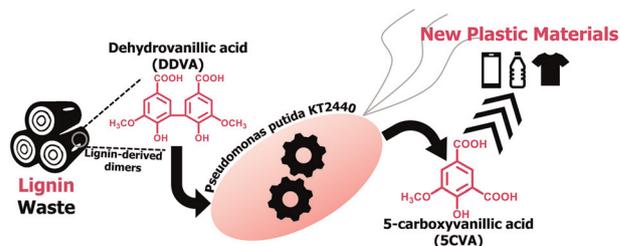
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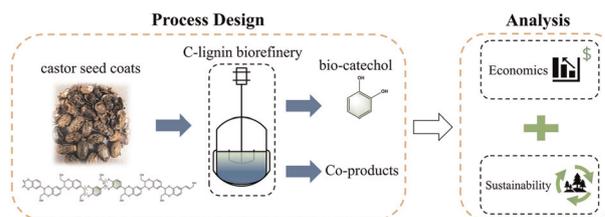
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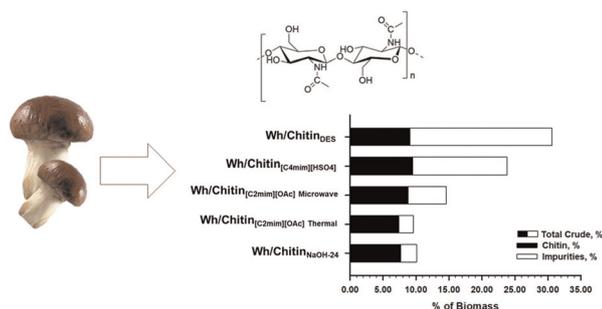
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A techno-economically feasible and sustainable C-lignin biorefinery

Pu Wang, Shuizhong Wang, Shihao Su, Dexin Zhang, Yuhe Liao, Guoyong Song* and Lei Wang*



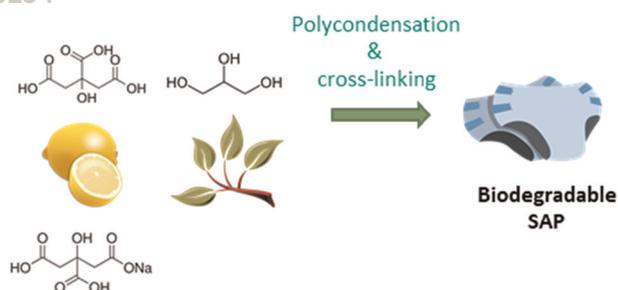
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Comparative analysis of chitin isolation techniques from mushrooms: toward sustainable production of high-purity biopolymer

Akhiri Zannat, Isaac Eason, Benjamin Wylie, Robin D. Rogers, Paula Berton* and Julia L. Shamshina*

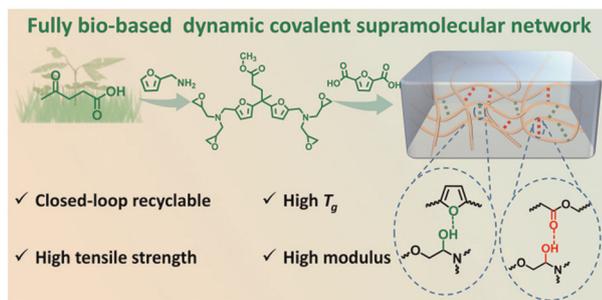
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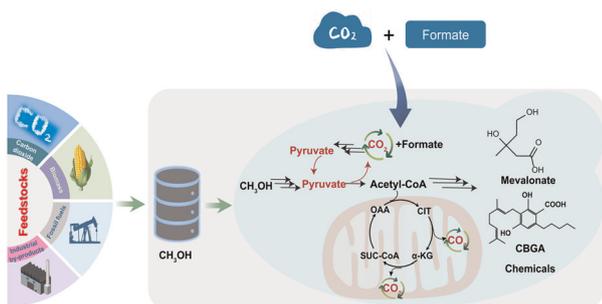
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High-performance fully bio-based dynamic covalent supramolecular epoxy resin: synthesis and properties

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Rewiring methanol assimilation and reductive glycine pathways in *Saccharomyces cerevisiae* to increase one-carbon recovery

Mingming Qi, Chao Zhu, Chi Cheng,* Wei Kang* and Chuang Xue*

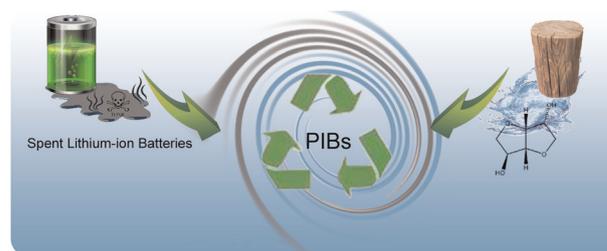


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Synthesis and characterisation of polycarbonates from spent lithium battery electrolytes

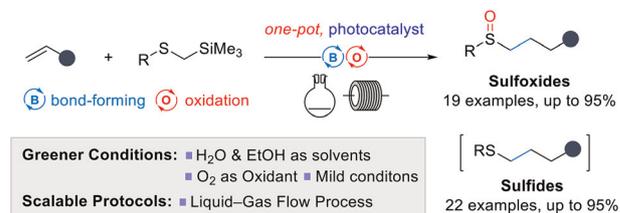
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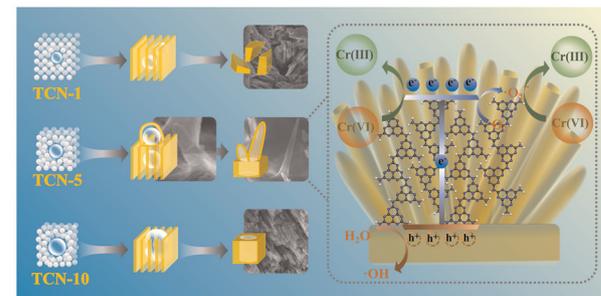
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Gas-induced modulation of carbon nitride morphology through a green one-step calcination strategy

Jie Wu, Zheng Liu, Mengjie Li, Jinjuan Zhao, Shuwen Li* and Honglei Yang*



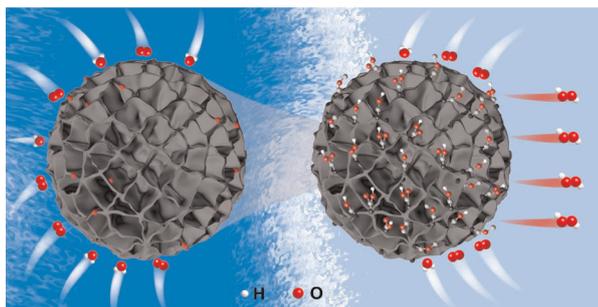
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One material for many uses: facile construction of hydrogel sensors with strong anti-damage, anti-freezing, and anti-drying properties, cancer-killing ability and biocompatibility

Jingwen Lan, Rukuan Liu,* Yiming Gong, Sisi Liu, Zhihong Xiao and Airong Xu*



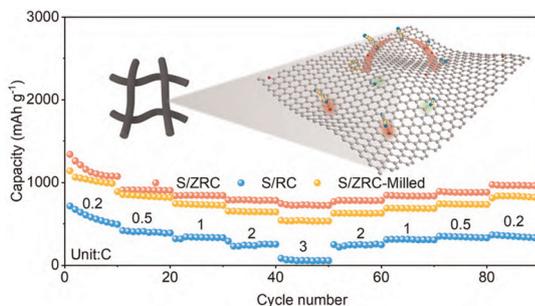
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Yuanyuan Zhang, Xuan Zheng, Hui Su, Yun Ling,*
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Yue Wang, Chenyang Xu, Jinjue Zeng,* Shaochun Tang,*
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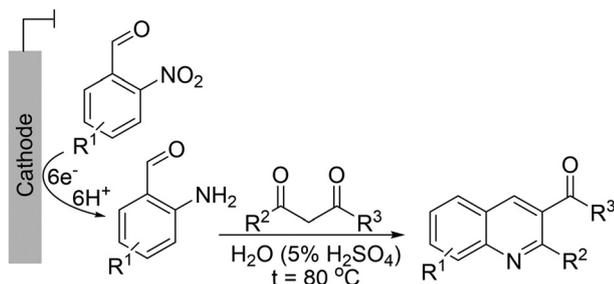
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Efficient synthesis of high molecular weight semi-aromatic polyamides with biobased furans over metal-free ionic liquids

Jian Feng, Dongxia Yan,* Chunrui Rong, Lingzhi Yu,
Jiabao Li, Jiayu Xin, Xingmei Lu, Qing Zhou,
Ziqing Wang* and Zhong Wei*

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Electrochemically assisted Friedlander reaction: a highly efficient and sustainable method for quinoline synthesis

Hamid Salehzadeh,* Zahra Rostami Bigdeli and
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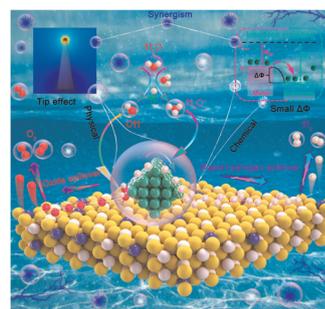


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Synergism between the gradient dilution work function and the Janus electronic state of Pt-CoP_xBr_{1-x} for boosting alkaline seawater electrolysis

Lei Jin, Hui Xu,* Kun Wang, Yang Liu, Jie Chen, Xingyue Qian, Haiqun Chen* and Guangyu He*



CORRECTION

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Correction: Environmentally friendly process design for furan-based long-chain diester production aiming for bio-based lubricants

Hye Jin Lee, Yoonjae Lee, Eun-hyeok Yang, Jiyun Yoo, Seungjun Choi, Soonho Hwangbo, Young-Woong Suh, Jayeon Baek,* Jeehoon Han* and Yong Jin Kim*

