

# Green Chemistry

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See Travis J. Williams, Steven R. Nutt *et al.*, pp. 2184–2188.

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### Inside cover

See Adam Slabon and Bruno V. M. Rodrigues, pp. 2178–2183.

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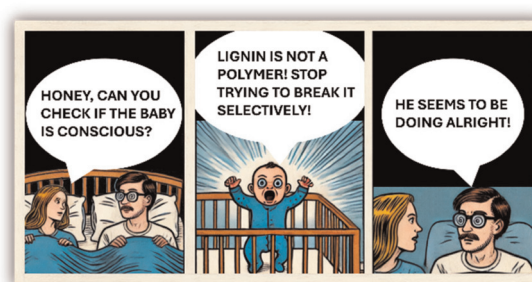
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### To break, or not to break: is selective depolymerization of lignin a *Riemann hypothesis* rather than a solution?

Adam Slabon\* and Bruno V. M. Rodrigues\*

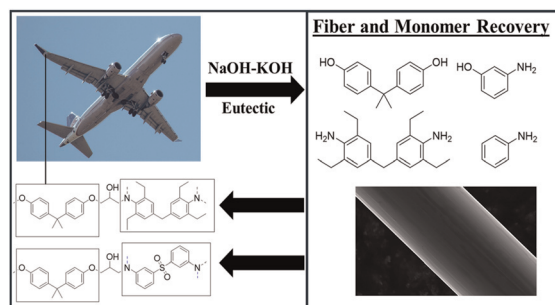


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2184

### Fiber and monomer recovery from an amine-cured epoxy composite using molten NaOH–KOH

Y. Justin Lim, Zehan Yu, Valeriy Cherepakhin, Travis J. Williams\* and Steven R. Nutt\*



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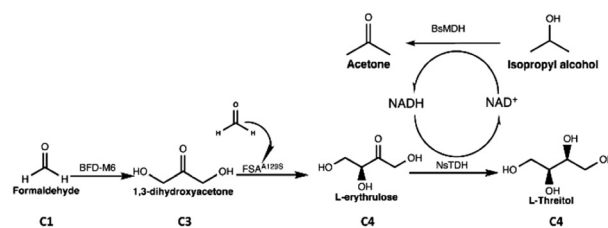


## COMMUNICATIONS

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**One-pot enzymatic synthesis of L-threitol from C1 formaldehyde**

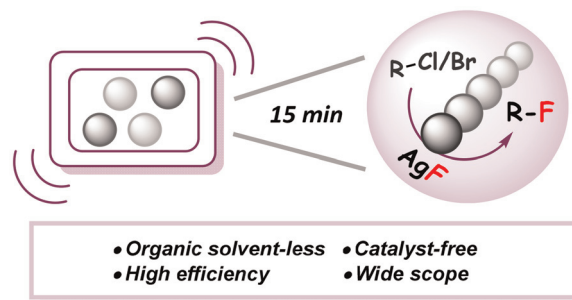
Sanrunyi Gong, Tianzhen Li, Zijing Tang, Zijian Tan, Ruke Zhang, Karsten Olsen, Haifeng Liu\* and Leilei Zhu\*



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Jieming Wang, Xueyan Yang,\* Cheng Peng, Mengyao Pei and Xiaofeng Wei\*

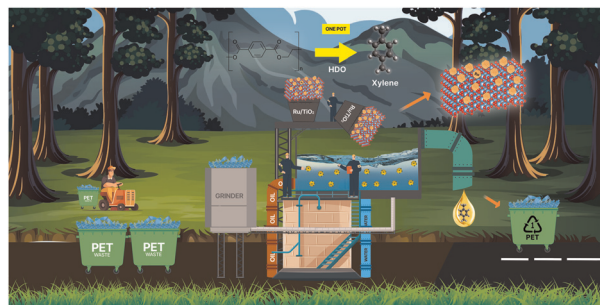


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**Selective one-pot chemical recycling of PET waste to xylene monomers: insights into a Ru/TiO<sub>2</sub> catalyst design and interfacial dynamics in a biphasic system**

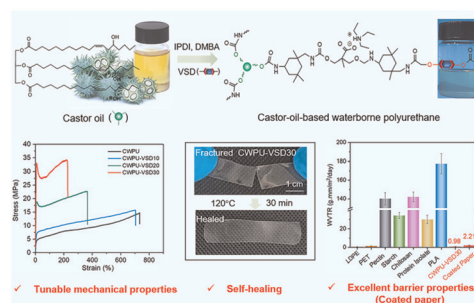
Vishnu Murali, Hanbyeol Kim, Han Ung Kim, Jung Rae Kim, Sang Hwan Son, Young-Kwon Park, Jeong-Myeong Ha and Jungho Jae\*



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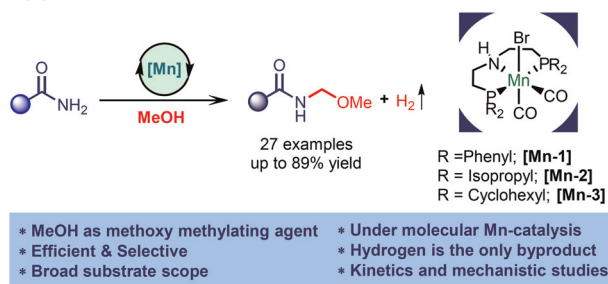
**High-strength, self-healable, transparent castor-oil-based waterborne polyurethane barrier coatings enabled by a dynamic acylhydrazone co-monomer**

Guowen Zhou, Yunfeng Zhou, Xiaoqian Zhang, Zepeng Lei\* and Xiaohui Wang\*



## PAPERS

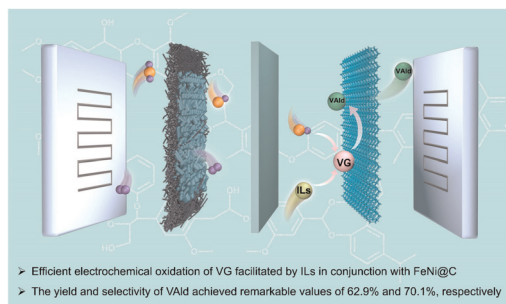
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Reshma Babu, Ganesan Sivakumar, Smruti Rekha Padhy and Ekambaram Balaraman\*

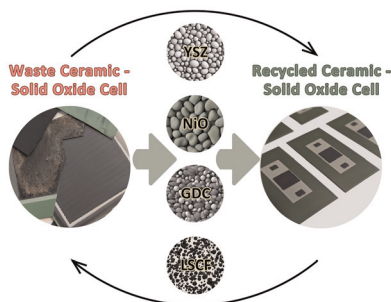
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### Anodic electrochemical C–C bond cleavage co-catalyzed by ionic liquids and FeNi@C for lignin upgrading

Weiwei Wang, Yuqing Zhai, Xiaoyan Ji, Hao Wang\* and Yanrong Liu\*

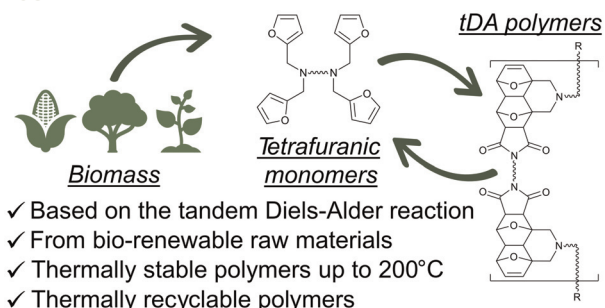
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### Towards a scalable recycling process for ceramics in fuel-electrode-supported solid oxide cells

Stephan Sarnier, Norbert H. Menzler,\*  
Jürgen Malzbender, Martin Hilger, Doris Sebold,  
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Daria V. Zakharova, Rinat R. Aysin, Alexander A. Pavlov,  
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and Alexander V. Polezhaev\*



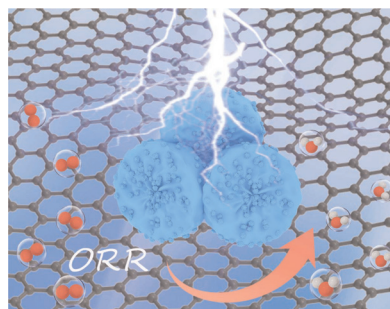


## PAPERS

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# Promoting oxygen reduction reaction kinetics through manipulating electron redistribution in CoP/Cu<sub>3</sub>P@NC for aqueous/flexible Zn–air batteries

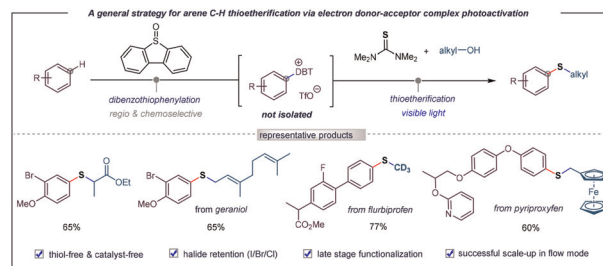
Lixia Wang, Jiasui Huang, Jia Huang, Bowen Yao, Aling Zhou, Zhiyang Huang, Tayirjan Taylor Isimjan,\* Bao Wang\* and Xiulin Yang\*



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# A catalyst- and thiol-free protocol for arene C–H thioetherification via photoactive electron donor–acceptor complexes

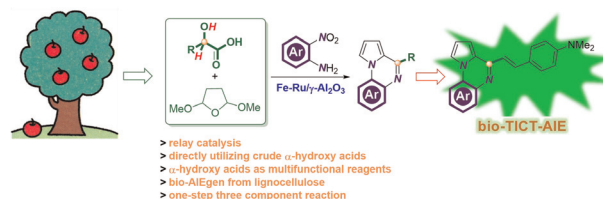
Ang Gao, He-Xiang Liu, Ya-Nan Zhou\* and Ming-Chen Fu\*



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# A supported Fe/Ru catalyzed three-component relay reaction through a hydrogen borrowing strategy: conversion of crude $\alpha$ -hydroxy acids into valuable N-heterocycles

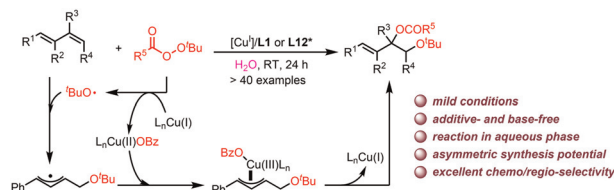
Shanshan Liu,\* Jia Wan, Yaoyao Zhang, Wen-Yu Luo, Weiwei Dong, Chao Wang and Lin-Yu Jiao\*



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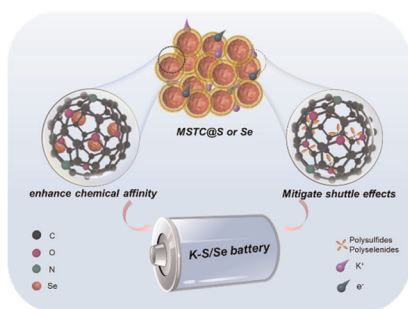
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Pu Chen, Lin Tian, Lindong Xiao, Xiaochen Ji,\* Guo-Jun Deng and Huawen Huang\*



## PAPERS

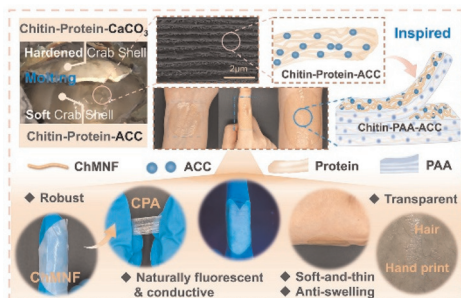
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Yongxu Du,\* Hongguang Fan, Yujing Zhu, Xianghua Zhang, Denghu Wei, Chuanyu Jin, Yongpeng Cui and Meiyang Lv\*

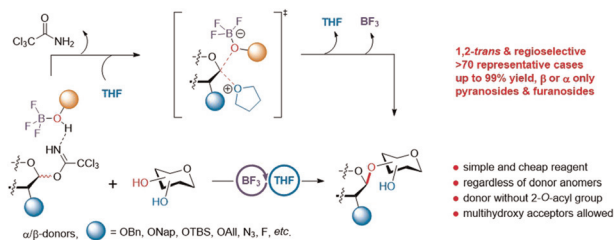
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Yamei Zao, Muqiu You, Jieru Ma, Xiaoyu Du, Yongcan Jin, Dagang Li, Zhaoyang Xu and Chuchu Chen\*

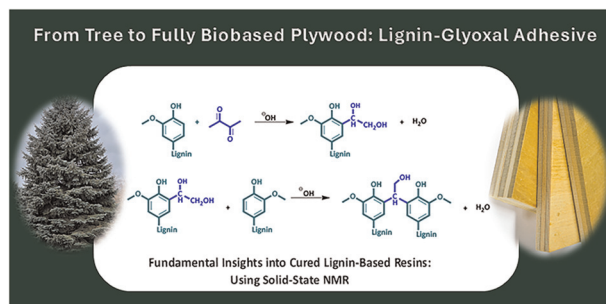
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Mohsen Shiahkamari,\* Debkumar Debnath, Tuo Wang\* and Mojgan Nejad\*



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Harishankar Kopperi, Vishnuvardhan Mamidi, G. Suresh and S. Venkata Mohan\*

