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

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Inside cover
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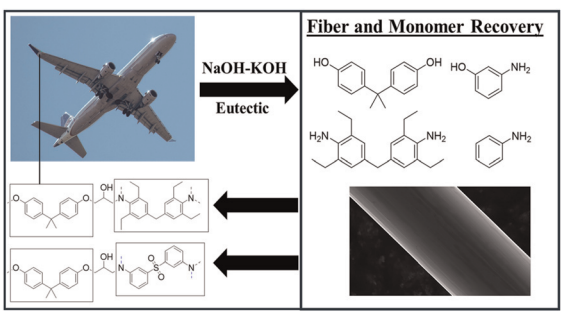

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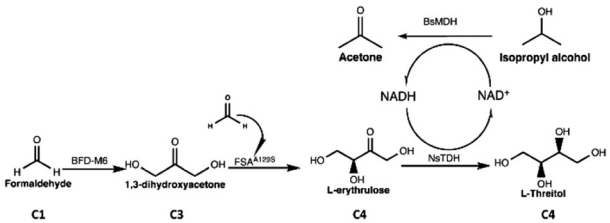

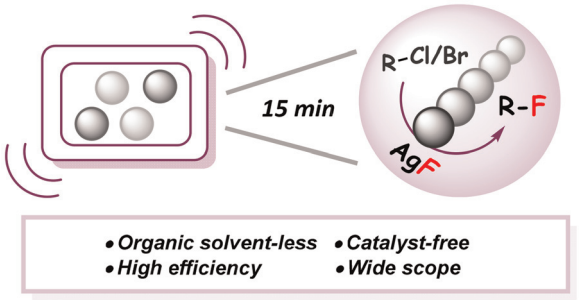

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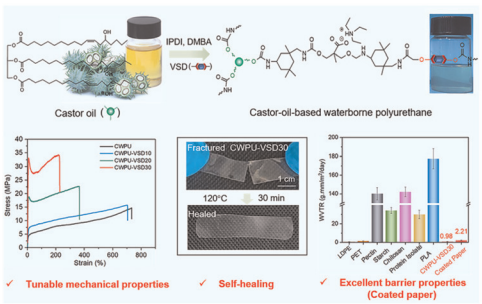

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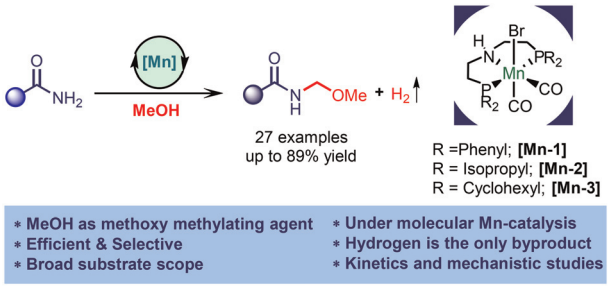

A green and sustainable catalytic protocol for methoxymethylation of primary amides using methanol with dihydrogen release

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

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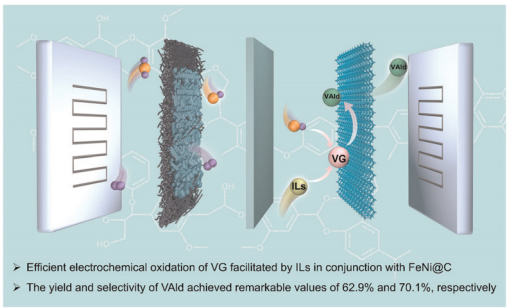

Anodic electrochemical C–C bond cleavage co-catalyzed by ionic liquids and FeNi@C for lignin upgrading

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

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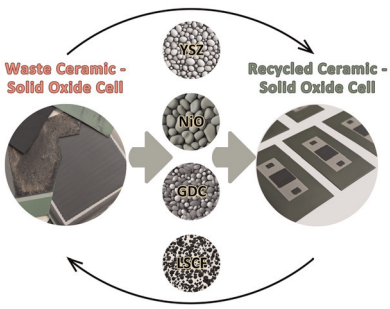

Towards a scalable recycling process for ceramics in fuel-electrode-supported solid oxide cells

Stephan Sarner, Norbert H. Menzler,* Jürgen Malzbender, Martin Hilger, Doris Sebold, André Weber and Olivier Guillon

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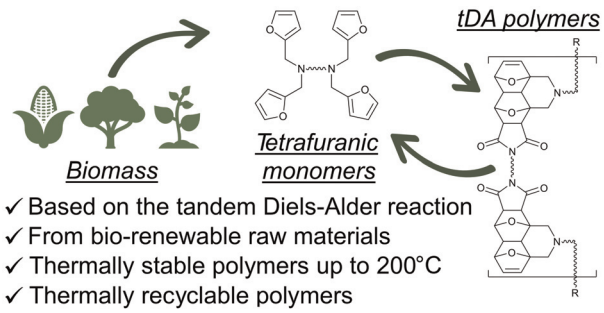

Tandem Diels–Alder reaction overrules entropy: the gate to thermally stable, yet thermally recyclable furan-based polymers

Daria V. Zakharova, Rinat R. Aysin, Alexander A. Pavlov, Dmirty A. Khanin, Elena O. Platonova, Yulia V. Nelyubina and Alexander V. Polezhaev*

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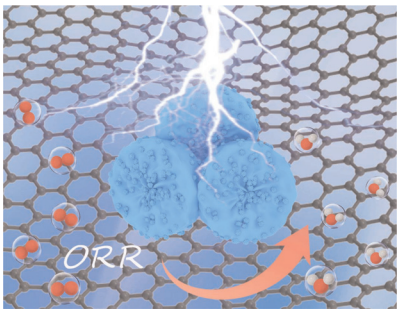

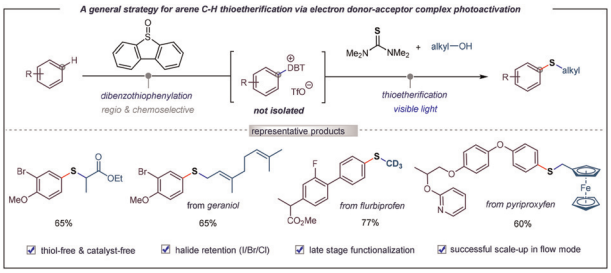

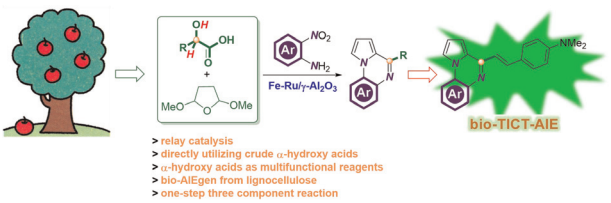

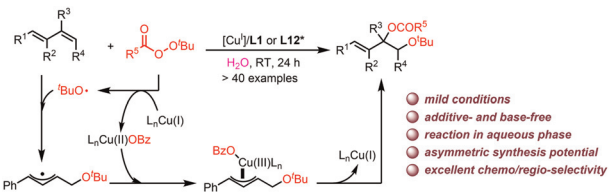

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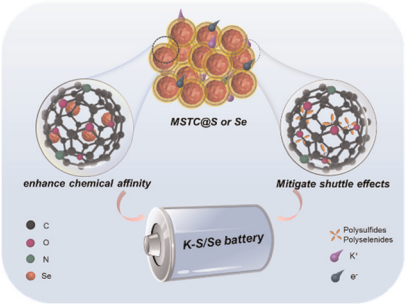

Anchoring active sulfur/selenium into enhanced carbon hosts with multiple chemical affinities for efficient K–S/Se batteries

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

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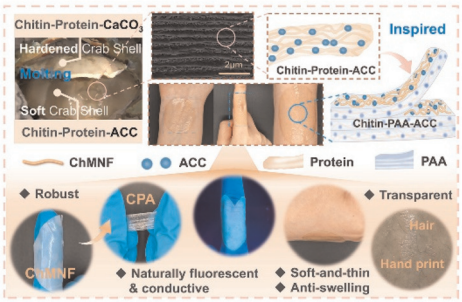

Synthesis of robust yet flexible and transparent CPA hydrogels inspired by molting crab shells

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

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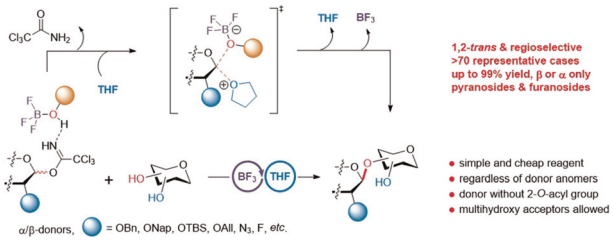

1,2-*trans* and regioselective glycosylation of multihydroxy sugars *via* a simple yet synergistic combination of $BF_3{\cdot}Et_2O$ in THF

Zhimei Wang, Longwei Gao, Yingjie Wang, Fuzhu Yang, Jinpeng Sang, Shuheng Pan, Xin Huang, Pan Zhang, Weijia Xie, Xiaoxing Wu, Biao Yu, Peng Xu, Xiaheng Zhang, Zhaolun Zhang* and Wei Li*

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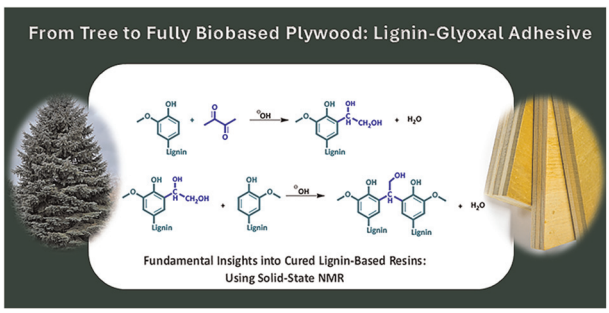

A fundamental study of lignin reactions with formaldehyde and glyoxal

Mohsen Siahkamari,* Debkumar Debnath, Tuo Wang* and Mojgan Nejad*

Tandem chemical hydrolysis and bioelectrochemical upcycling of waste polyethylene terephthalate (PET) for sustainable biobutanol and ethanol production ensuring plastics circularity

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