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Cover
See Lihua Zhang, Haibo Xie *et al.*, pp. 3046–3056.

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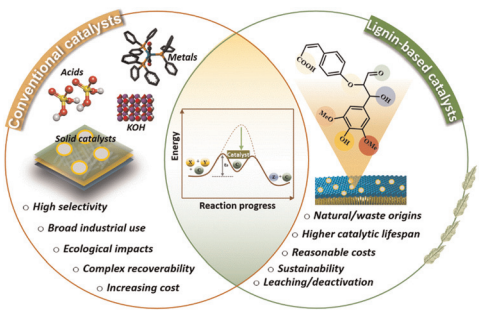
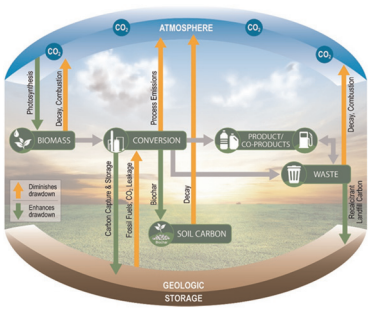
CRITICAL REVIEWS





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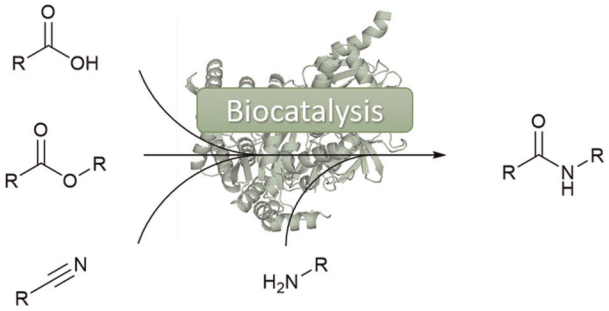
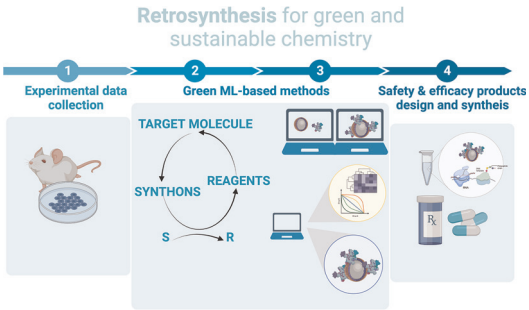
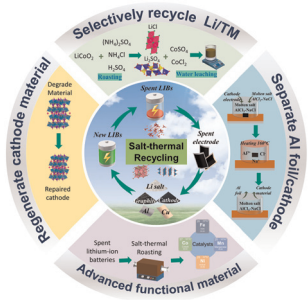
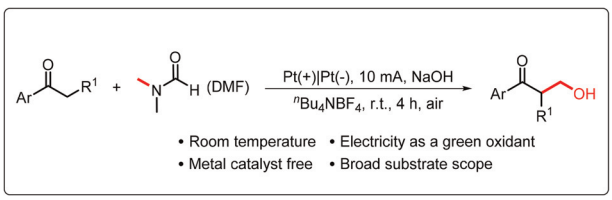






COMMUNICATIONS



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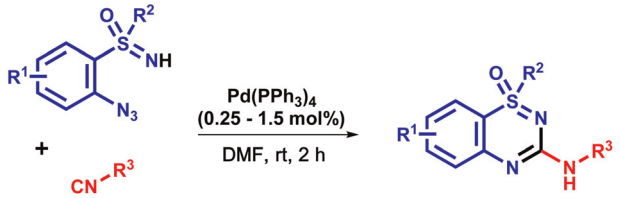

Synthesis of 3-amino-substituted benzothiadiazine oxides by a palladium-catalysed cascade reaction

Renè Hommelsheim, Sandra Bausch, Robin van Nahl, Jas S. Ward, Kari Rissanen and Carsten Bolm*

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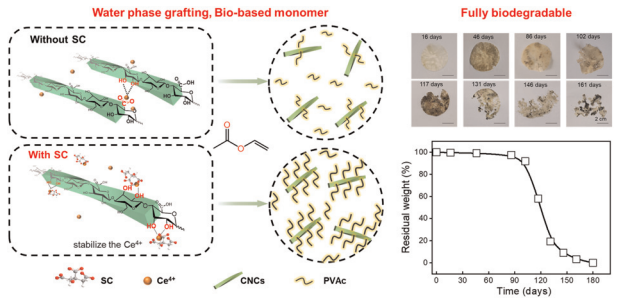

Highly efficient grafting of polyvinyl acetate onto cellulose nanocrystals in the aqueous phase

Yunxiao Liu, Hongze Xu, Lijuan Zhou and Jianming Zhang*

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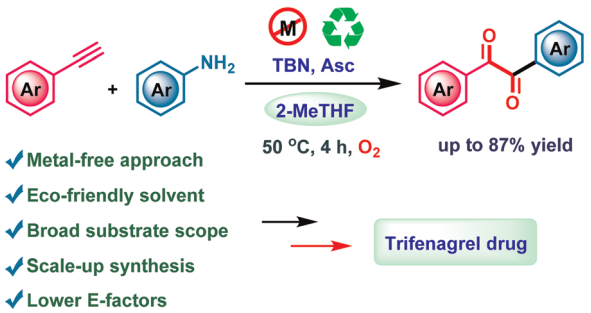

Metal-free, 2-MeTHF mediated C(sp)–H functionalization of alkynes with anilines to access diaryl 1,2-diketones bearing lower *E*-factors

Swadhapriya Bhukta, Rana Chatterjee and Rambabu Dandela*

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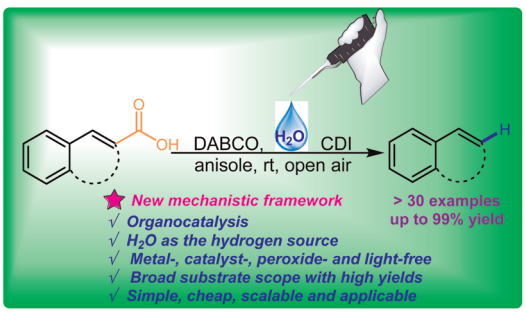

A water-promoted catalytic hydrodecarboxylation of conjugated carboxylic acids under open air conditions at room temperature

Zhan-Yong Wang, Ting Yang, Kai-Kai Wang, Dong-Fang Liu, Xueji Ma, Nan Wang, Hong Liu, Aili Sun and Hongxin Liu*

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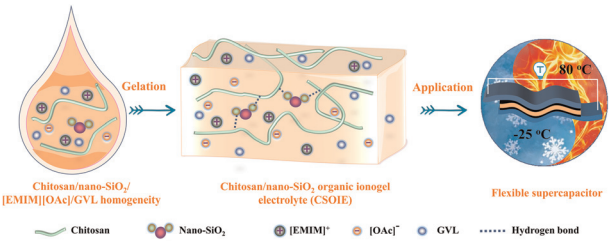

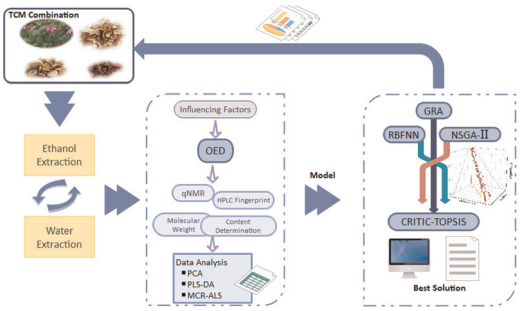

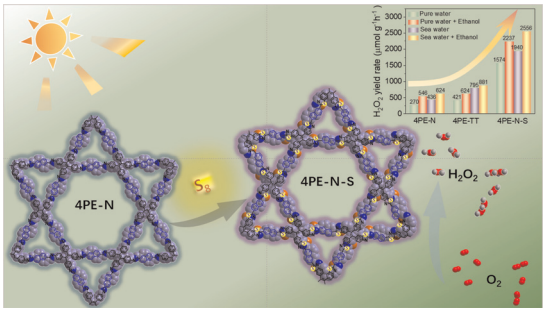

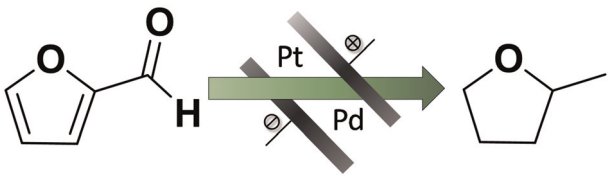

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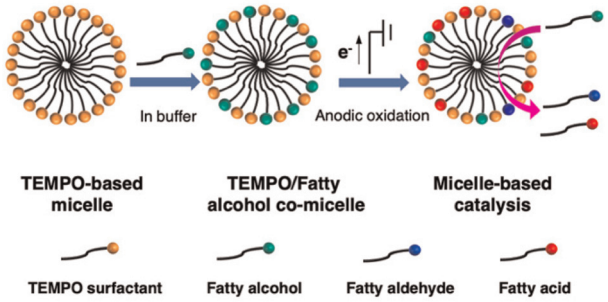

Nitroxide radical surfactants enable electrocatalytic oxidation of fatty alcohols in water

Chanaka J. Mudugamuwa, Yuan Xie, Kai Zhang, Thomas P. Nicholls, Justin M. Chalker and Zhongfan Jia*

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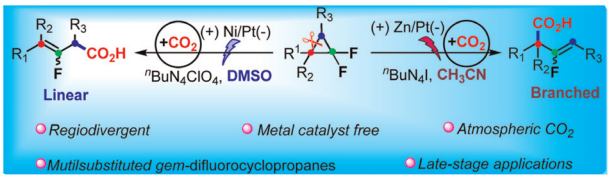

Regiodivergent electroreductive defluorinative carboxylation of *gem*-difluorocyclopropanes

Bin Zhao, Zichen Pan, Jiayu Pan, Hongping Deng, Xiaoli Bu, Mengtao Ma and Fei Xue*

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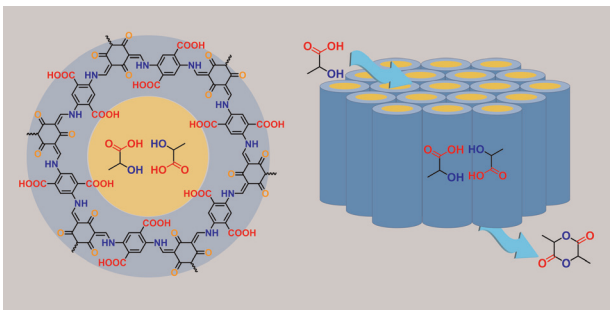

A "one-step" approach to the highly efficient synthesis of lactide through the confinement catalysis of covalent organic frameworks

Jinyu Zhao, Guangming Guo, Danbo Wang, Hui Liu,* Zhenxiu Zhang, Lishui Sun, Naixiu Ding, Zhibo Li* and Yingjie Zhao*

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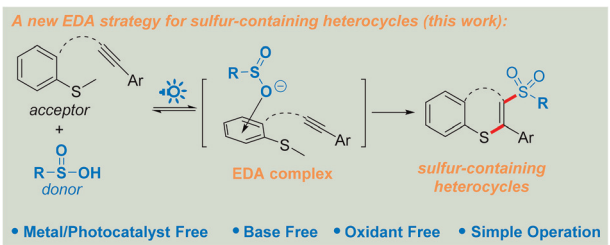

A general electron donor–acceptor complex enabled cascade cyclization of alkynes to access sulfur-containing heterocycles

Wen-Chao Yang,* Yu Sun, Xiao-Bo Bao, Shu-Peng Zhang and Liu-Yu Shen

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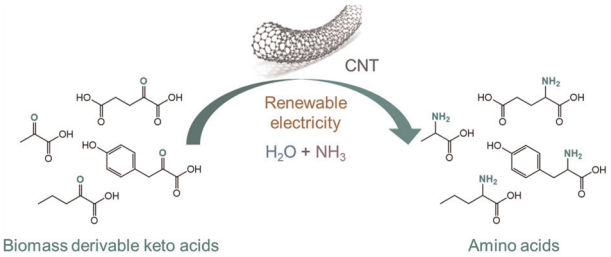

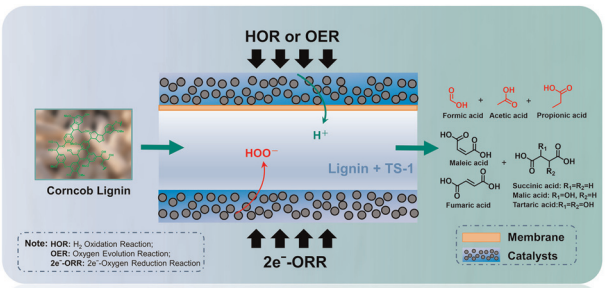

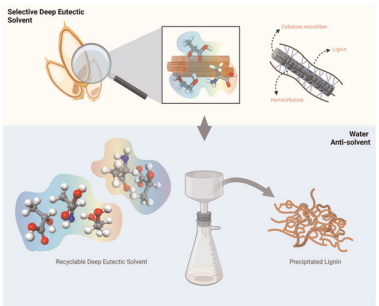

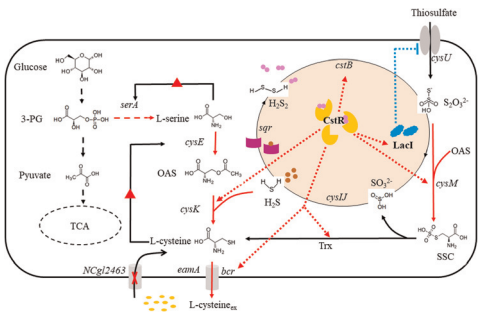

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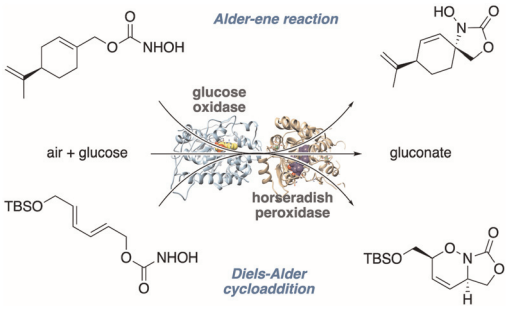

Peroxidase-induced C–N bond formation *via* nitroso ene and Diels–Alder reactions

Christina Jäger, Bernhard J. Gregori, Juhana A. S. Aho, Marleen Hallamaa and Jan Deska*

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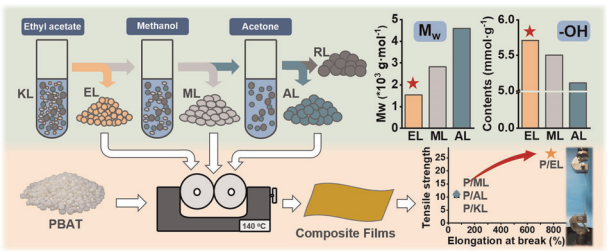

A strong, tough and cost-effective biodegradable PBAT/lignin composite film *via* intrinsic multiple noncovalent interactions

Shao-Jun Xiong, Si-Jie Zhou, Hao-Hui Wang, Han-Min Wang, Xiao-Jun Shen, Shixin Yu,* Hui Li, Lu Zheng, Jia-Long Wen, Tong-Qi Yuan* and Run-Cang Sun

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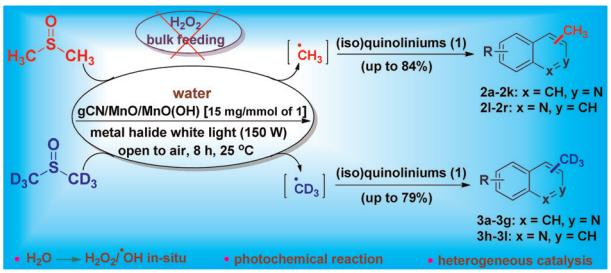

Activation of DMSO(-d_6) *via* heterogeneous photo-Fenton-like process with *in situ* production of hydroxyl radicals for the C–H (trideutero) methylation of (iso)quinoliniums

Palani Natarajan,* Aleyna Basak and Onder Metin*

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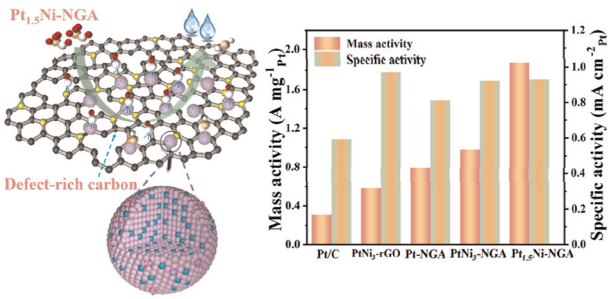

Achieving superior methanol oxidation electrocatalytic performance by surface reconstruction of PtNi nanoalloys during acid etching process

Xu Chen, Jinyu Zhao, Jie Lian and Xiaomin Wang*

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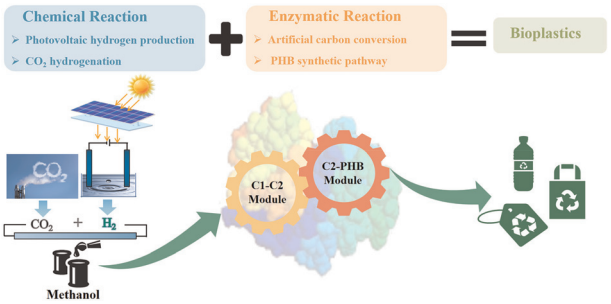

Hybrid synthesis of polyhydroxybutyrate bioplastics from carbon dioxide

Jie Zhang, Dingyu Liu, Yuwan Liu, Huanyu Chu, Jie Bai, Jian Cheng, Haodong Zhao, Shaoping Fu, Huihong Liu, YuE. Fu, Yanhe Ma* and Huifeng Jiang*

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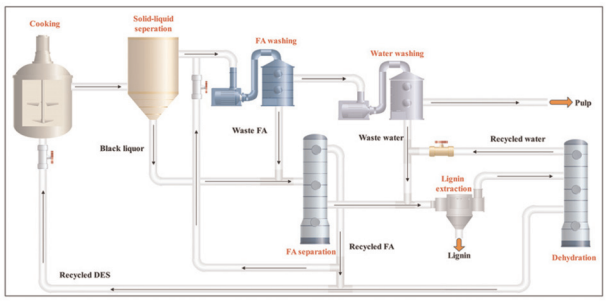

A low-energy and sustainable pulping technology for eucalyptus slabs using a deep eutectic solvent

Zhaohui Zhang, Jun Xu,* Junxian Xie, Shiyun Zhu,* Jun Li, Guangdong Ying and Kefu Chen

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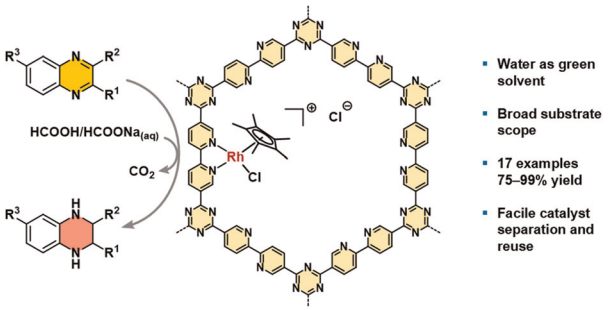

A recyclable rhodium catalyst anchored onto a bipyridine covalent triazine framework for transfer hydrogenation of N-heteroarenes in water

Jonas Everaert, Karen Leus, Hannes Rijckaert, Maarten Debruyne, Kristof Van Hecke, Rino Morent, Nathalie De Geyter, Veronique Van Speybroeck, Pascal Van Der Voort and Christian V. Stevens*

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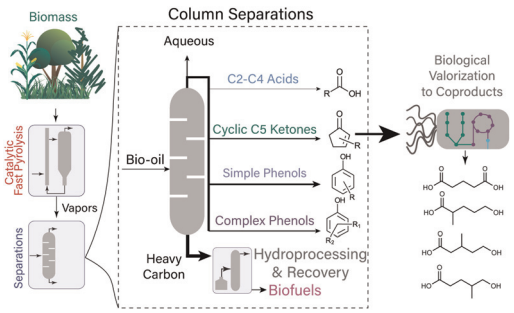

Biological conversion of cyclic ketones from catalytic fast pyrolysis with *Pseudomonas putida* KT2440

Andrew J. Borchert, A. Nolan Wilson, William E. Michener, Joseph Roback, William R. Henson, Kelsey J. Ramirez and Gregg T. Beckham*

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