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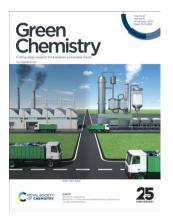
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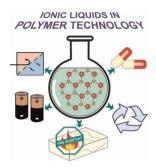


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# Ionic liquids in polymer technology

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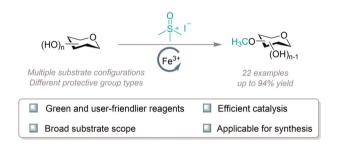


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# Trimethylsulfoxonium iodide: a green methylating agent for site-selective methylation of carbohydrates

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# Electrochemical lactamization with CO<sub>2</sub>

Ranran Zhang, Min Liu, Zhiwei Zhao and Youai Qiu\*

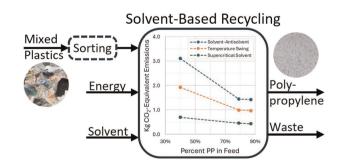
# Electrochemical lactamization with CO<sub>2</sub> CO2 1 atm Using CO<sub>2</sub> as a carbonyl source Transition Metal- and base-free process ■ Broad substrates range and excellent functional group tolerance ■ One pot synthesis

# **PAPERS**

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# Evaluation of three solvent-based recycling pathways for circular polypropylene

Benjamin Caudle,\* Thuy T. H. Nguyen and Sho Kataoka

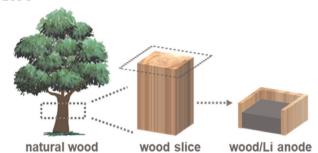


# 1679 Conventional CCU CO<sub>2</sub> Sorbent Combined Carbon Capture and Conversion (quad-C) CO2-depleted air CO<sub>2</sub> capture Chemical quad-C using dual-functional material (CeO<sub>2</sub>)

Energy and cost-saving potential of combined carbon capture and conversion: a pioneering design of a process intensification concept harnessing CeO<sub>2</sub> as a dual-functional material

Koki Yagihara, Jialing Ni, Anqing Wang, Hajime Ohno and Yasuhiro Fukushima\*

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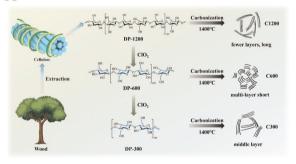


# Natural wood as a lithium metal host

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an Oligom

Solid Residue

Facile fabrication of cellulose-derived hard carbon for high-rate performance sodium-ion batteries by regulating degrees of polymerization

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# Glucose H<sub>2</sub>O Impregnated H-MOR/H-Y

H-MOR/H-Y Reacted H-MOR/H-Y 4A Zeolite

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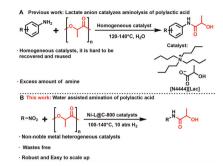
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Haotong Liang, Sheng Ye, Qiyu Liu,\* Wei Fan and Qiaozhi Ma\*

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# Reductive amidation of polylactic acid with nitro compounds using nickel based nanocatalysts

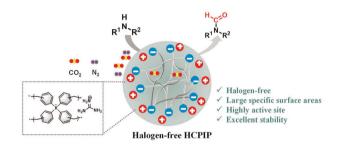
Jie Gao,\* Lan Zhang, Long Luo\* and Ning Wang\*



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# Design of halogen-free hyper-crosslinked porous ionic polymers for efficient CO<sub>2</sub> capture and conversion

Xiaoqing Yang, Jinshan Zhao, Junfeng Zeng, Bihua Chen, Liang Tang, Jun Zhang, Akif Zeb, Zhiyong Li, Shiguo Zhang and Yan Zhang\*



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# Active learning assists chemical intuition identify a scalable conversion of chitin to 3-acetamido-5acetylfuran

Juliana G. Pereira, João M. J. M. Ravasco, Latimah Bustillo, Inês S. Marques, Po-Yu Kao, Po-Yi Li, Yen-Chu Lin, Tiago Rodrigues,\* Vasco D. B. Bonifácio, Andreia F. Peixoto, Carlos A. M. Afonso\* and Rafael F. A. Gomes\*

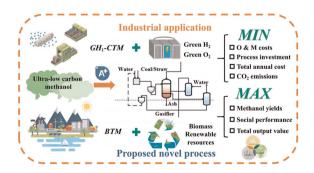


- important N-containing synthon obtained from waste biomass ocommercial ionic liquid solvent can be reused
- interesting scaffold for further chemical exploitation up to 72 % yield from NAG or 10 mg/g of shrimp shell

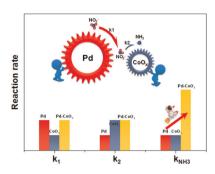
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Dongrui Zhang, Ruqiang Wang, Zhibo Zhang, Hao Yan, Xin Zhou,\* Hui Zhao\* and Chaohe Yang



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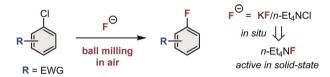


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Yan Wang, Yujia Zeng, Jiawei Xie, Chao Wang, Changan Zhou, Lei Song, Kui Ma and Hairong Yue\*

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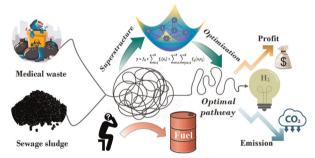
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Solid-state aromatic nucleophilic fluorination: a rapid, practical, and environmentally friendly route to N-heteroaryl fluorides

Koji Kubota,\* Tetsu Makino, Keisuke Kondo, Tamae Seo, Mingoo Jin and Hajime Ito\*

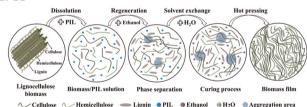
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Jianzhao Zhou, Jingzheng Ren\* and Chang He

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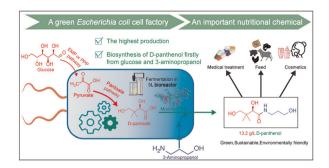
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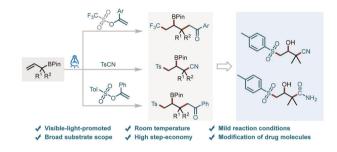
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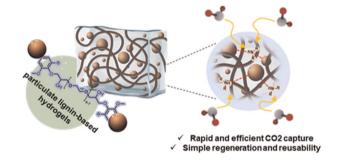
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Adrian Moreno,\* Javier Delgado-Lijarcio, Juan C. Ronda, Marina Galià and Gerard Lligadas\*



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