

Green Chemistry

Cutting-edge research for a greener sustainable future

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ISSN 1463-9262 CODEN GRCHFJ 27(16) 4005–4396 (2025)



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Stephen A. Miller,
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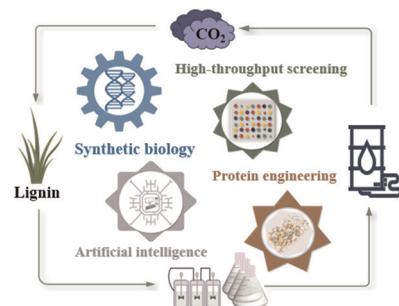
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Recent developments in recycling of post-consumer polyethylene waste

Yang Ma, Xinyao Jiang, Xinyue Xiang, Ping Qu* and Maiyong Zhu*



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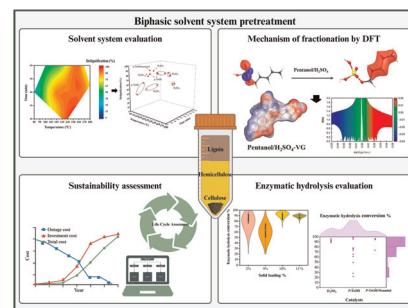
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CRITICAL REVIEWS

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Harnessing the potential of biphasic solvent systems in lignocellulosic biomass fractionation through computational insights

Maryam Saleknezhad, Meysam Madadi,* Salauddin Al Azad and Vijai Kumar Gupta*

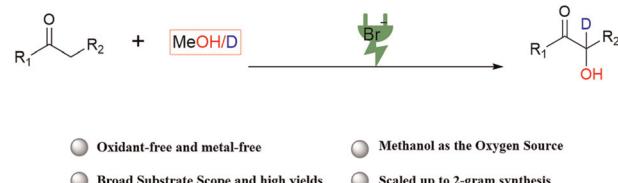


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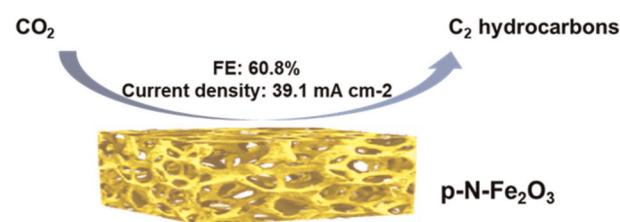
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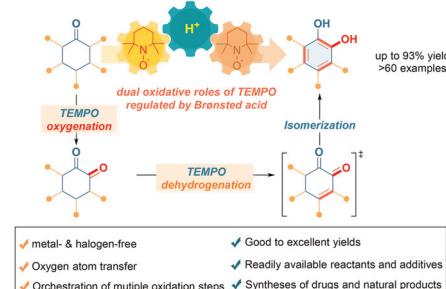
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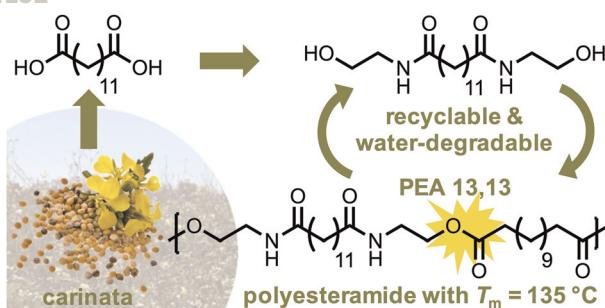
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Biping Xu, Xiaojie Liu, Lei Deng, Yaping Shang, Xiaoming Jie* and Weiping Su*



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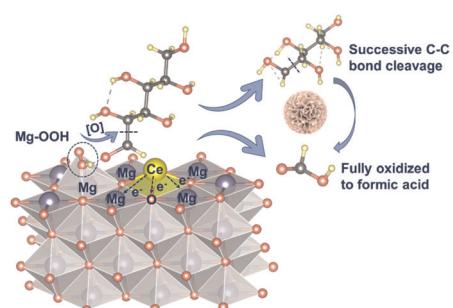
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Bio-oil derived polyesteramides as water-degradable replacements for polyethylene

Yohei Yoshinaka and Stephen A. Miller*

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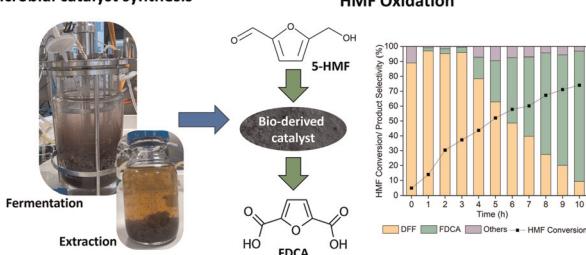


Tailoring the electronic structure and acid-base properties of MgO by Ce doping promotes biomass-derived formic acid production at room temperature

Yiqi Geng, Wenhua Xue, Jian Ye, Ruilong Zhang, Puranjan Mishra and Jun Zhao*

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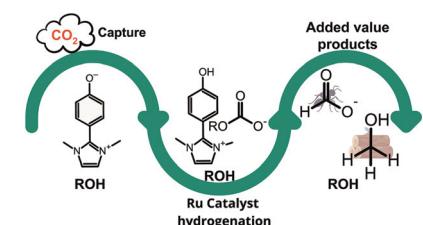
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Swathi Mukundan, Fabio Santomauro, Daniel Miramontes Subillaga, Noelia Villarroel, Adriano Randi, Sandra E. Dann, Jose F. Marco and Jonathan L. Wagner*

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Integrated Carbon Capture and Utilization

- ✓ Non volatile base
- ✓ High TOF
- ✓ Mild pressure
- ✓ Green Solvents
- ✓ Good selectivity
- ✓ Low temperature

Zwitterionic alcoholic solutions for integrated CO₂ capture and hydrogenation

Bruno A. Cândido, Marcelli L. C. Zanirati, Francisco P. dos Santos, Wilmer Villarreal, Jairton Dupont and Pedro Migowski*

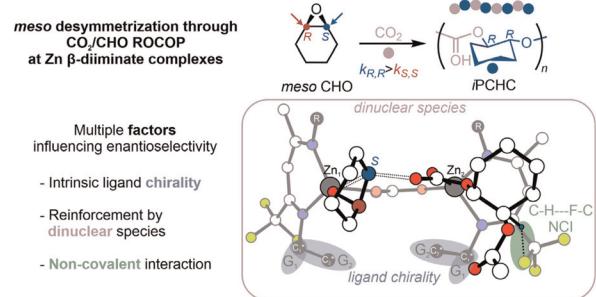


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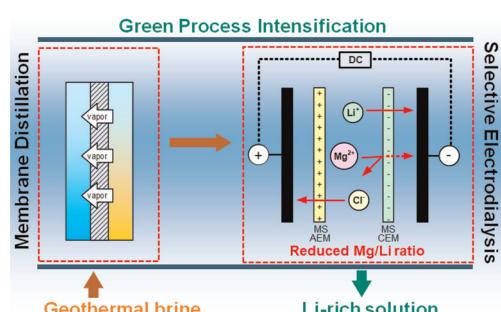
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Sustainable lithium recovery from geothermal brine via integrated membrane distillation – selective electrodialysis

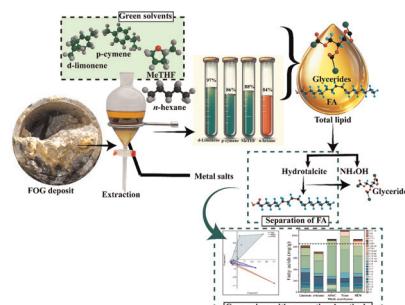
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Sustainable lipid extraction: green solvents and hydrotalcite as alternatives to conventional methods for measuring fatty acids in fat, oil and grease

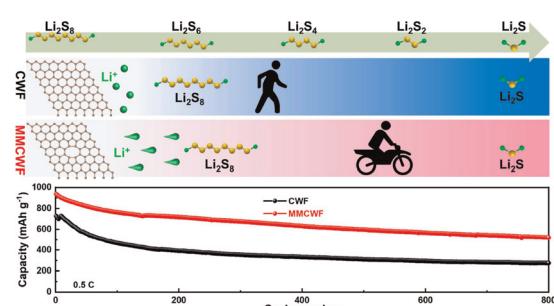
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Solvochemical-assisted defect engineering in hierarchically porous carbonized wood fibers for high-performance lithium–sulfur batteries

Yangyang Chen, Yu Liao, Lei Li, Yiding Ding, Ying Wu, Zhen Zhang, Sha Luo, Yiqiang Wu and Yan Qing*



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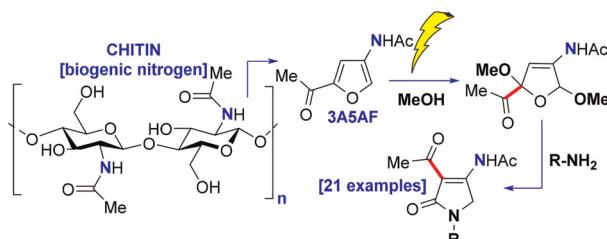
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Protective fractionation of highly uncondensed lignin with high purity and high yield: new insights into propanediol-blocked lignin condensation

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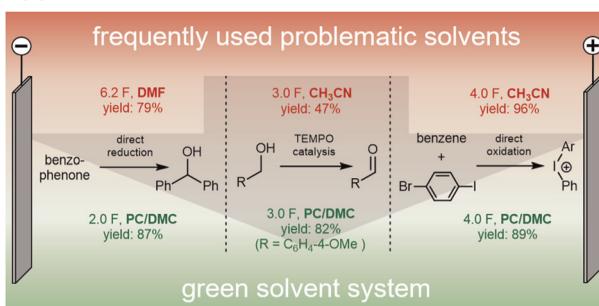
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On the use of propylene carbonate and dimethyl carbonate as green solvents in organic electrosynthesis

Adrian Prudlik, Alexandra Matei, Anton Scherkus, Javier Ivan Bardagi, Sebastian B. Beil* and Robert Francke*

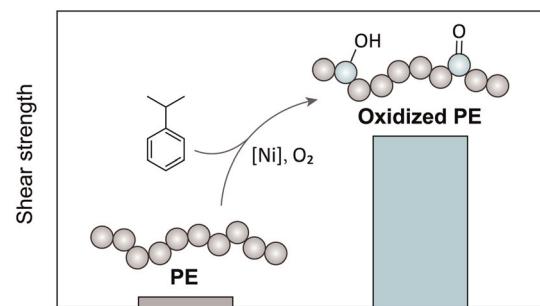


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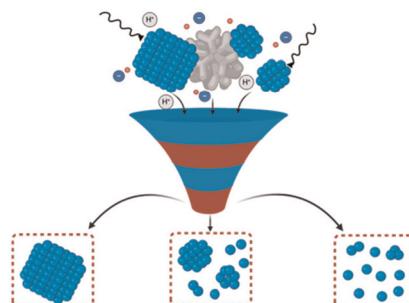
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A nano-SPR model for predicting the dissolution rate of metal and metal oxide nanomaterials in the aqueous environment

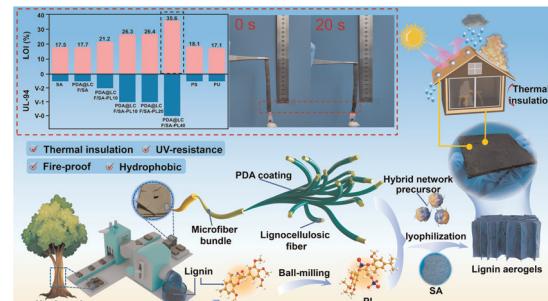
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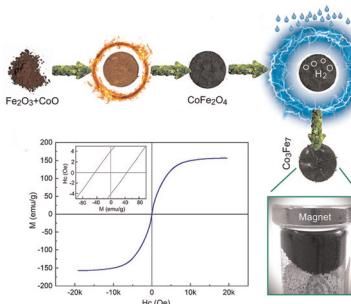
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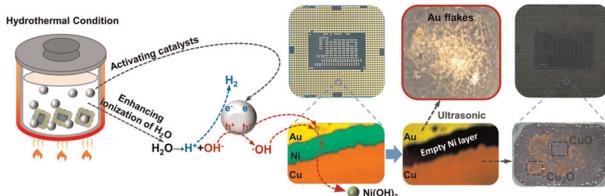
Water-assisted clean electro-preparation of Co_3Fe_7 in molten salts: its enhanced ferromagnetic properties and hydrogen evolution rate

Shengxi Zhao, Kaiyu Xie and Ali Reza Kamali*



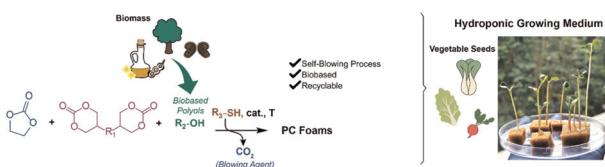
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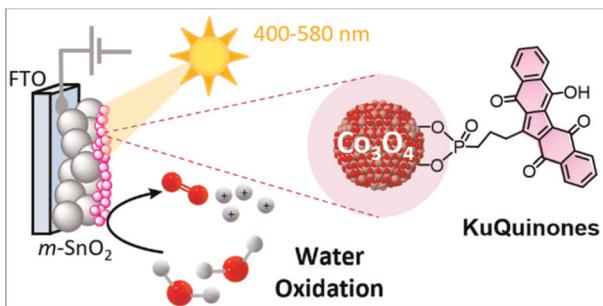
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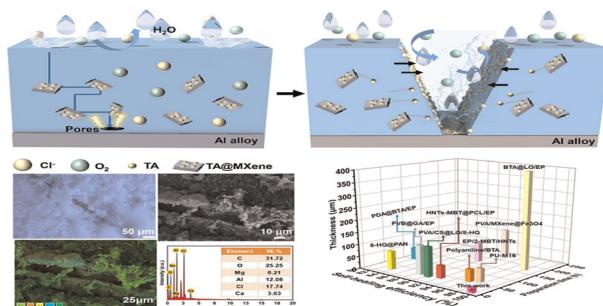
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Shedding light on the path to multifunctional task-specific supported ionic liquids with enhanced catalyst stability and activity

Sergio Alcalde, Raúl Porcar, Nuria Martín, Francisco G. Cirujano, Belén Altava and Eduardo García-Verdugo*

