

Sustainable Energy & Fuels

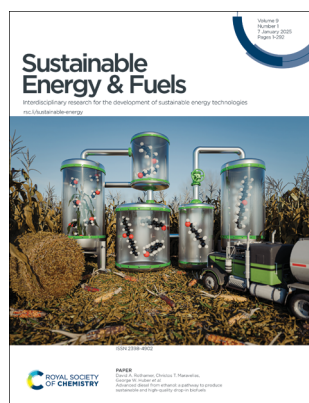
Interdisciplinary research for the development of sustainable energy technologies

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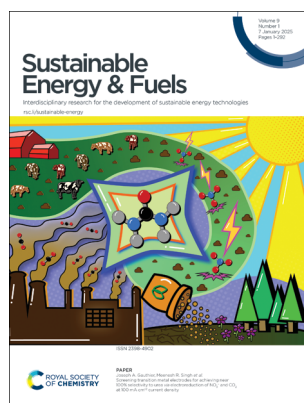
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See David A. Rothamer, Christos T. Maravelias, George W. Huber *et al.*, pp. 98–114. Image reproduced by permission of Xin Zou from *Sustainable Energy Fuels*, 2025, 9, 98.



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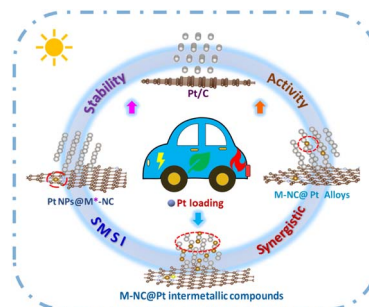
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Recent advances in atomically dispersed M–N–C coupled Pt-based oxygen reduction catalysts

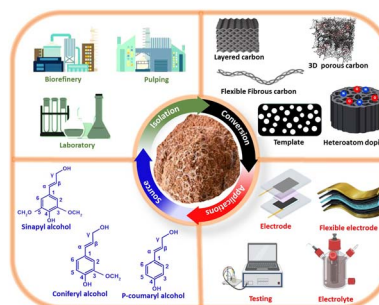
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Lignin as a sustainable precursor for electrodes and electrolytes of emerging supercapacitors

Ridwan T. Ayinla, Islam Elsayed and El Barbary Hassan*





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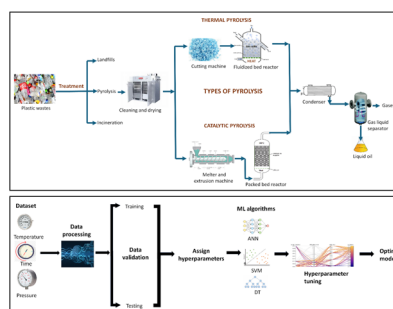
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Advances in plastic to fuel conversion: reactor design, operational optimization, and machine learning integration

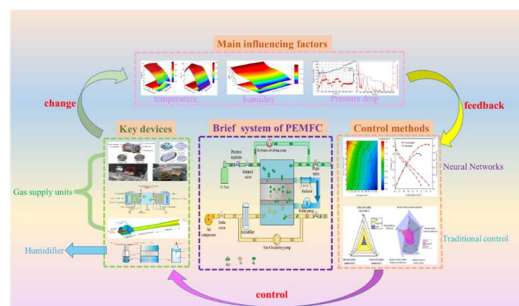
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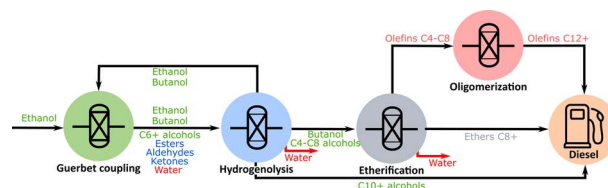


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Advanced diesel from ethanol: a pathway to produce sustainable and high-quality drop-in biofuels

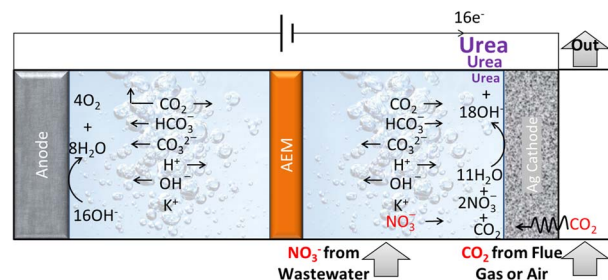
Juan-Manuel Restrepo-Flórez, Javier E. Chavarrio,
Emmanuel Canales, Dustin Witkowski,
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David A. Rothamer,* Christos T. Maravelias*
and George W. Huber*



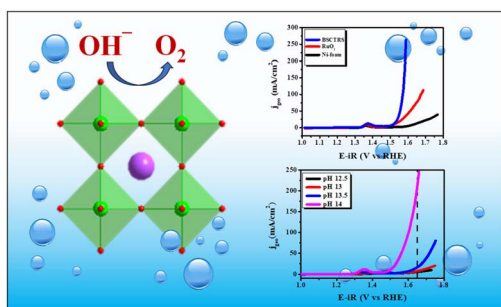
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Screening transition metal electrodes for achieving near 100% selectivity to urea via electroreduction of NO₃⁻ and CO₂ at 100 mA cm⁻² current density

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Ksenija D. Glusac, Joseph A. Gauthier*
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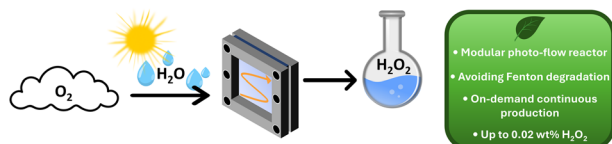
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Harnessing lattice oxygens in a high-entropy perovskite oxide for enhanced oxygen evolution reaction

Sujan Sen and Tapas Kumar Mandal*

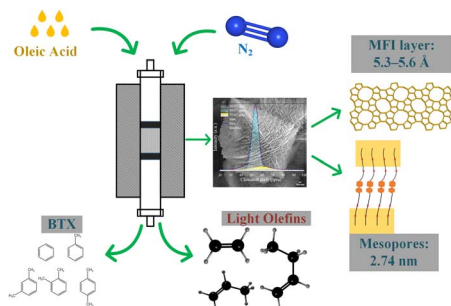
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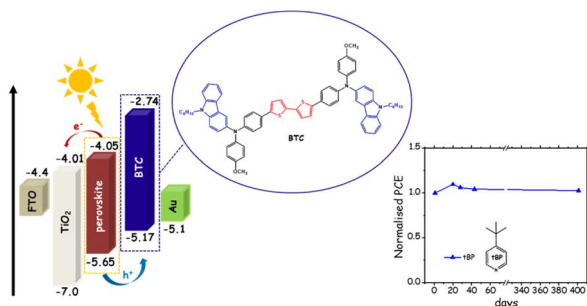
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Paavo Mäkinen, Daniele Conelli, G. Krishnamurthy Grandhi, Gian Paolo Suranna, Paola Vivo* and Roberto Grisorio*

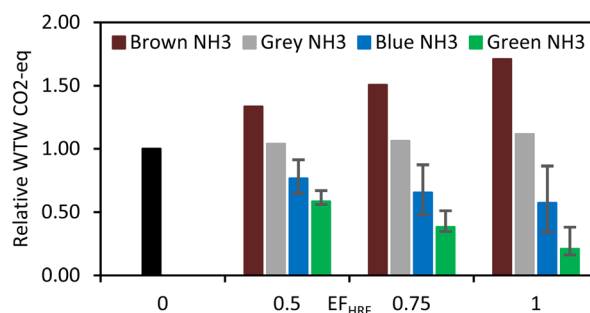


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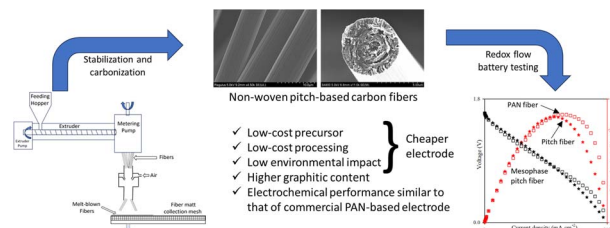
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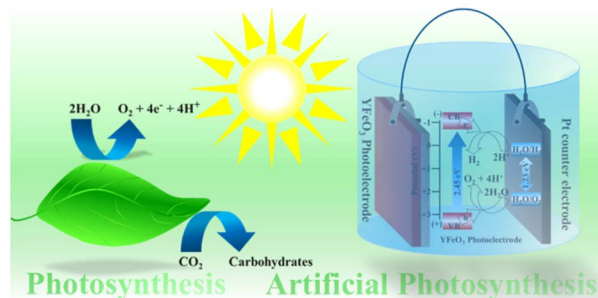
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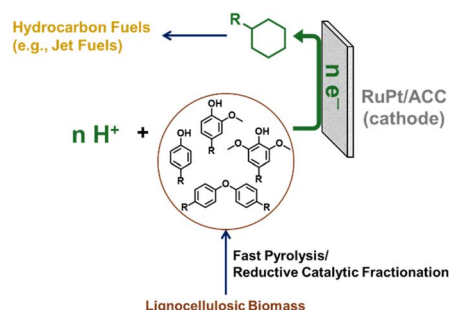
Bandar Y. Alfaifi, Hameed Ullah,* Xin Jiang* and Asif Ali Tahir*



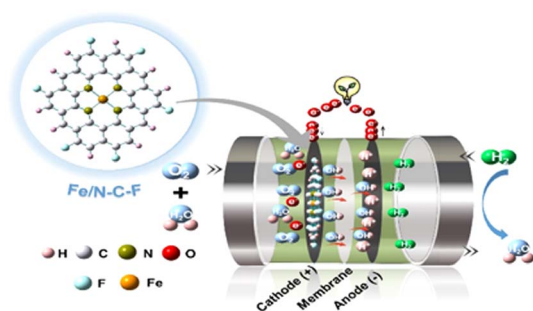
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Electrocatalytic conversion of biomass-derived oxygenated aromatics to cycloalkanes

Meheryar R. Kasad, James E. Jackson and Christopher M. Saffron*



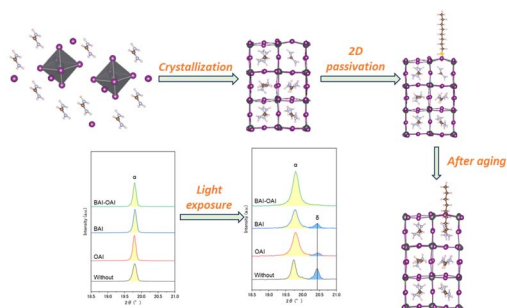
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Fluorine-rich Schiff base ligand derived Fe/N–C–F and Co/N–C–F catalysts for the oxygen reduction reaction: synthesis, experimental validation, and DFT insights

Sumanta Kumar Das, Shaik Gouse Peera, Aiswarya Kesh, Prabakaran Varathan and Akhila Kumar Sahu*

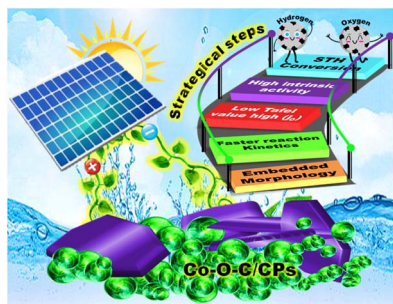
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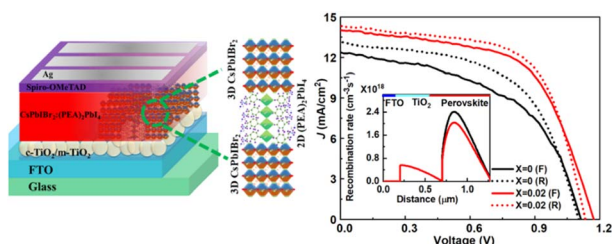
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Cobalt-doped vanadium nitride composite carbon hollow spheres for enhanced lithium–sulfur battery performance: overcoming sulfur dissolution and the shuttle effect

Jiangnan Zhang, Yanshuang Meng* and Fuliang Zhu*

