

Sustainable Energy & Fuels

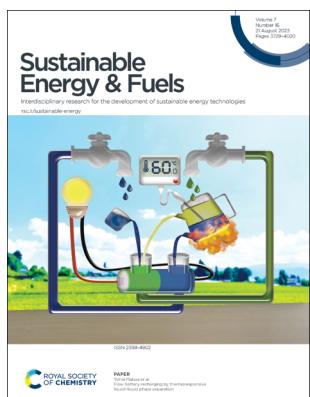
Interdisciplinary research for the development of sustainable energy technologies

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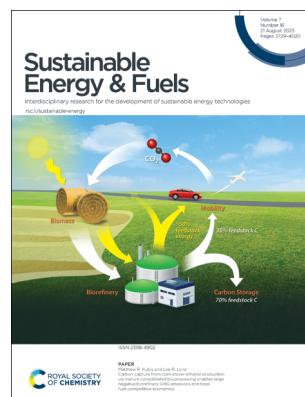
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EDITORIAL

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Harnessing the power of biorefining: paving the way for sustainable fuels and chemicals

George W. Huber, Muxina Konarova, Jason Y. C. Lim and Karen Wilson*

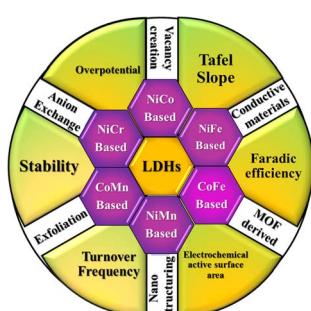


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A review on consequences of flexible layered double hydroxide-based electrodes: fabrication and water splitting application

Sreenivasan Nagappan, Seungmin Yang, Arindam Adhikari, Rajkumar Patel* and Subrata Kundu*



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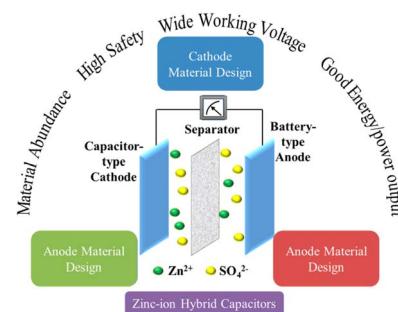


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Recent developments in zinc metal anodes, cathodes, and electrolytes for zinc-ion hybrid capacitors

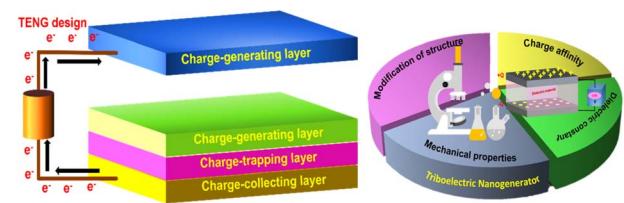
Meghali Devi, Brindha Moorthy and Ranjith Thangavel*



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Applications of multifunctional triboelectric nanogenerator (TENG) devices: materials and prospects

Prabhakar Yadav, Kuldeep Sahay,* Arpit Verma, D. K. Maurya and B. C. Yadav*

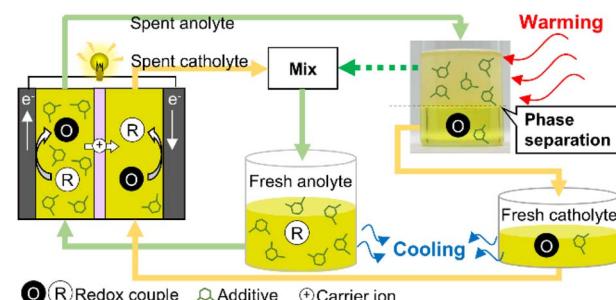


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Flow battery recharging by thermoresponsive liquid–liquid phase separation

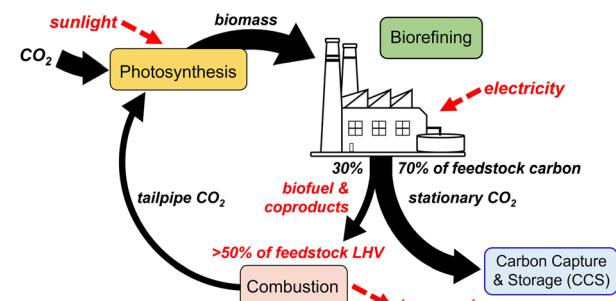
Yohei Matsui,* Yuki Maeda, Makoto Kawase, Takahiro Suzuki and Shohji Tsuchima



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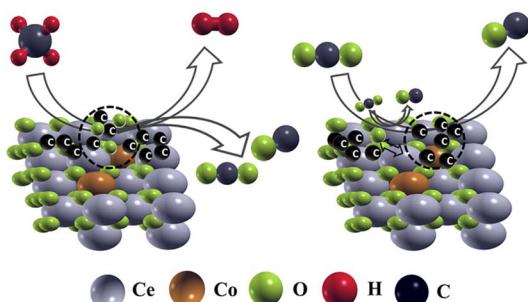
Carbon capture from corn stover ethanol production via mature consolidated bioprocessing enables large negative biorefinery GHG emissions and fossil fuel-competitive economics

Matthew R. Kubis and Lee R. Lynd*



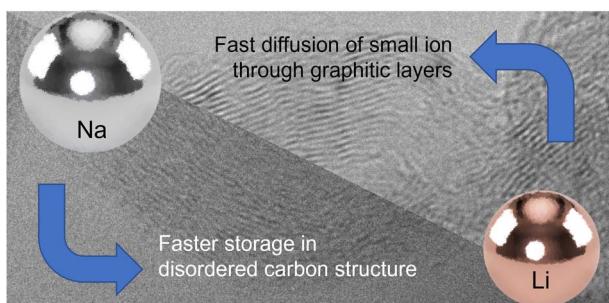
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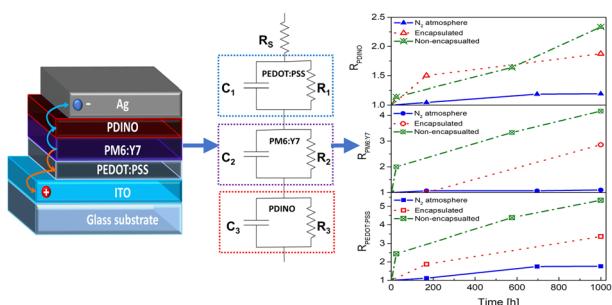
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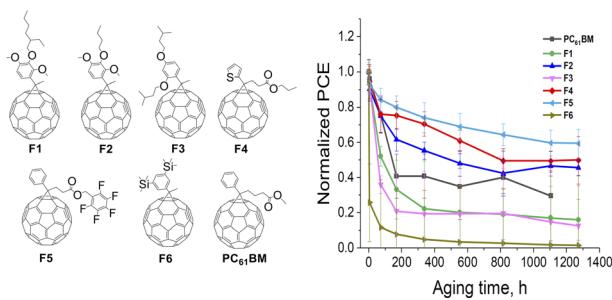
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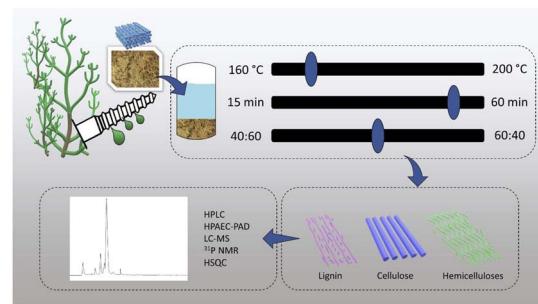


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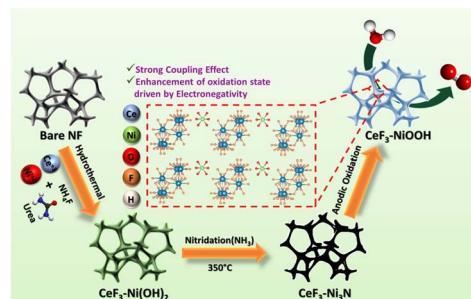
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Strong coupling effect induced surface reconstruction of $\text{CeF}_3\text{-Ni}_3\text{N}$ to form $\text{CeF}_3\text{-NiOOH}$ for the oxygen evolution reaction

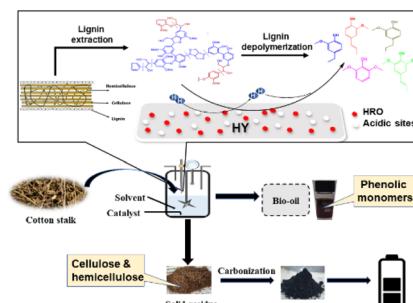
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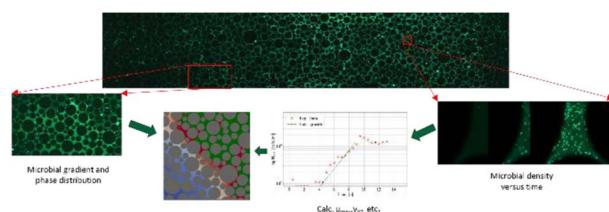
Meenu Jindal, Adarsh Kumar, Shivam Rawat and Bhaskar Thallada*



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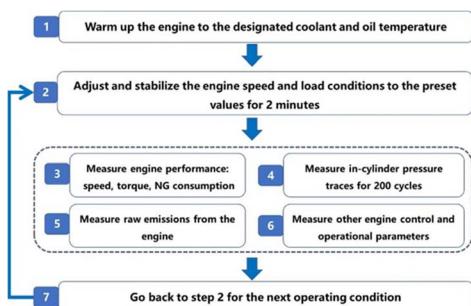
Experimental and numerical investigation of microbial growth in two-phase saturated porous media at the pore-scale

Gion Strobel,* Jan Zawallich,* Birger Hagemann, Leonhard Ganzer and Olaf Ippisch



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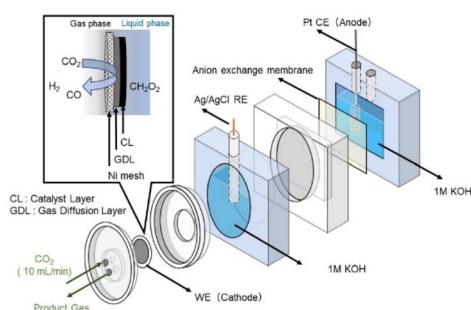
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Effects of piston shapes and swirl ratios on combustion and emissions of a micro diesel pilot-ignition natural gas engine

Jianqin Fu, Chao Li, Feng Zhou,* Jun Shu* and Jingping Liu

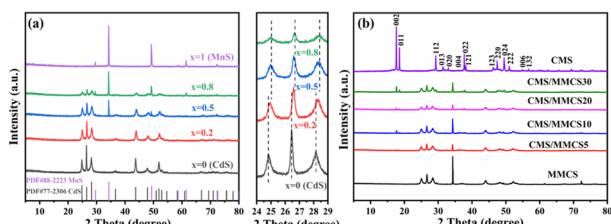
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Enhancement of formic acid formation by nitrogen-doped graphene oxide nanosheets decorated with Sn nanoparticles in electrochemical CO₂ reduction

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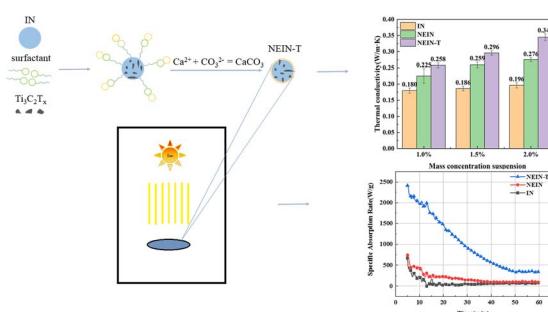
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Jingjing Jiang, Chao Liu, Xiaolong Fang* and Fengjun Zhang

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Enhanced thermal conductivity and photothermal conversion efficiency of MXene-doped sugar alcohol nanocapsules for medium-temperature solar utilization

Yuanhong Li, Songping Mo,* Junhao Chen, Bo Xiao, Lisi Jia and Ying Chen

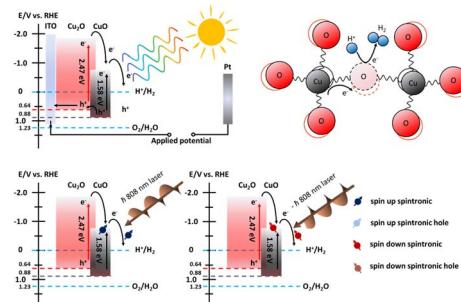


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Yi-Sheng Lai,* Dao-Jing Huang, Xiu-Xuan Zhang and Yen-Hsun Su



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Gradient boosting machine for performance and emission investigation of diesel engine fueled with pyrolytic oil–biodiesel and 2-EHN additive

Fatih Okumuş,* Halil İbrahim Sönmez, Aykut Safa, Cenk Kaya and Görkem Kökkünlük

