

Sustainable Energy & Fuels

Interdisciplinary research for the development of sustainable energy technologies

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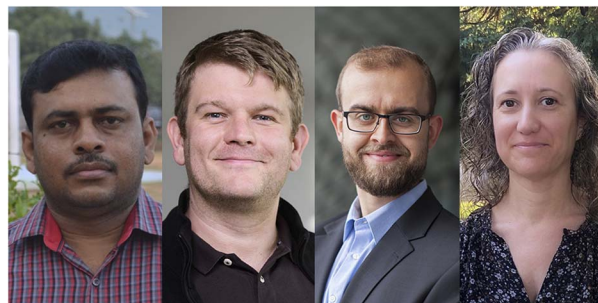
See Hongxian Liu, Zhenxing Fang, Yanning Zhang *et al.*, pp. 5483–5491. Image reproduced by permission of Hongxian Liu, Zhenxing Fang and Yanning Zhang from *Sustainable Energy Fuels*, 2023, 7, 5483.

EDITORIAL

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Shaping the future of hybrid ion capacitors

Vanchiappan Aravindan,* Martin Oschatz,* Konstantin Schutjajew* and Marta Sevilla*

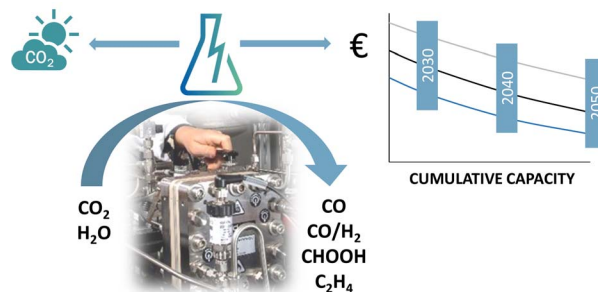


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Electrochemical CO₂ conversion technologies: state-of-the-art and future perspectives

Remko J. Detz,* Claire J. Ferchaud, Arie J. Kalkman, Jasmin Kemper, Carlos Sánchez-Martínez, Marija Saric and Manoj V. Shinde



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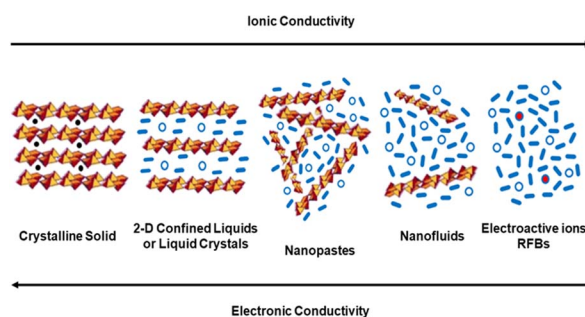


PERSPECTIVES

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To flow or not to flow. A perspective on large-scale stationary electrochemical energy storage

Anukriti Pokhriyal, Daniel Rueda-García and Pedro Gómez-Romero*

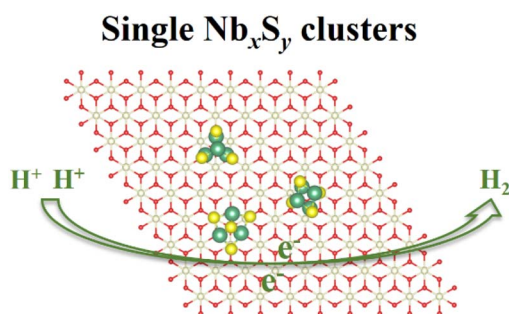


COMMUNICATIONS

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CeO₂-supported multi-nuclear Nb_xS_y clusters for hydrogen evolution reaction

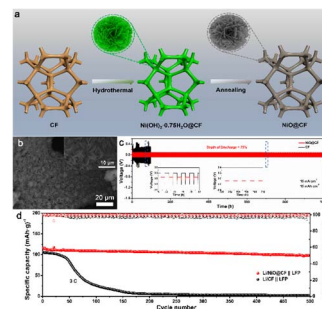
Hongxian Liu,* Chencheng Zhao, Hong Li, Xuelan Li, Xianfeng Mu, Dunhua Hong, Furu Zhong, Zhenxing Fang* and Yanning Zhang*



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Three-dimensional flower-like NiO on Cu foam as a lithiophilic current collector for high-performance lithium metal batteries

Jiping Ma, Zhanling Zhang,* Bin Zhang,* Changyong Huang, Xiaoqian Shi, Yong Liu and Guangmin Zhou

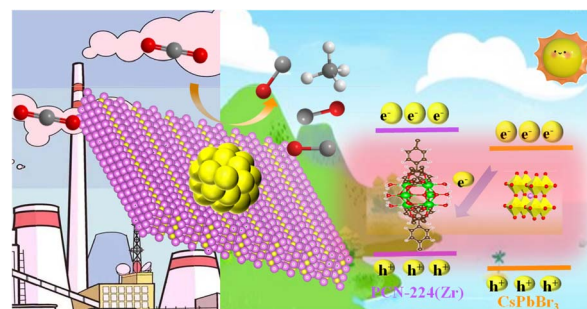


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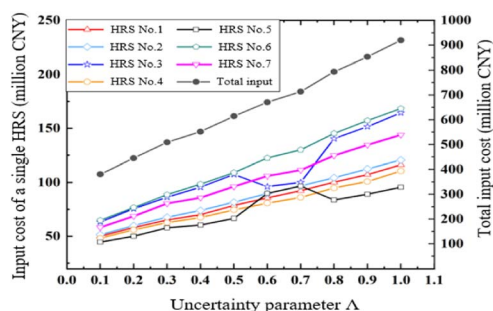
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Modulating CsPbBr₃ nanocrystals encapsulated in PCN-224(Zr) for boosting full-spectrum-driven CO₂ reduction: S-scheme transfer, photothermal-synergistic effect, and DFT calculations

Yan-He Chen, Jin-Qiu Shen, Xiao-Lu Chen, Luobing Tang, Na Zhang, Jian-Yong Zhang* and Zhen-Jiang Liu*



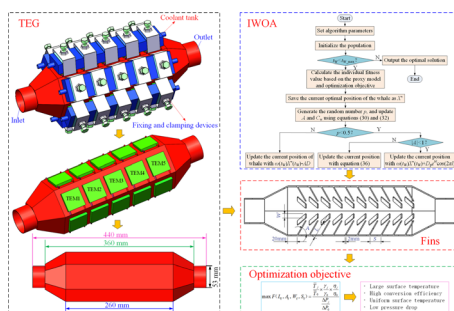
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Site planning and selection of hydrogen refueling stations considering the life cycle and demand uncertainty

Yan Zhou, Xunpeng Qin, Cenglin Yao,* Mao Ni, Jun Zhou, Ling Liu, Wenyi Li and Wenlong Yang

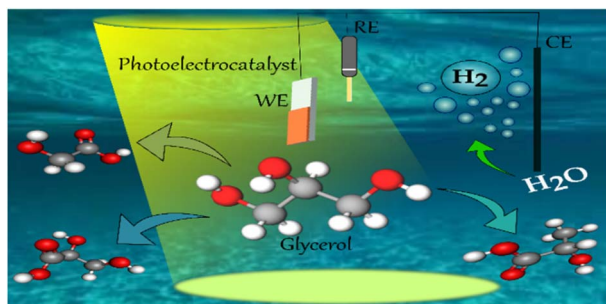
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Performance optimization of a thermoelectric generator for automotive application using an improved whale optimization algorithm

Rui Quan,* Haifeng Guo, Dazhi Liu, Yufang Chang and Hang Wan

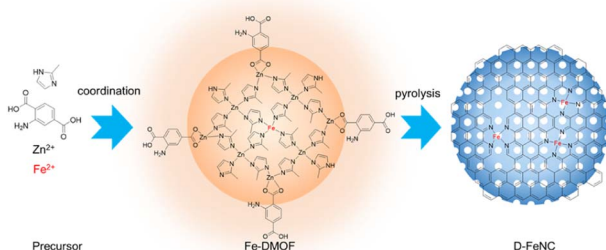
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Photoelectrochemical conversion of glycerol aqueous solution to value-added chemicals using $\text{Bi}_2\text{Fe}_4\text{O}_9$ as a photoanode

Bruno L. da Silva, Saulo A. Carminati, Matheus B. C. Souza, Leonardo C. Soares, Claudia Longo, Pablo S. Fernández and Ana F. Nogueira*

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MOF-derived Fe–N–C electrocatalyst via a dual ligand strategy for efficient oxygen reduction in acidic media

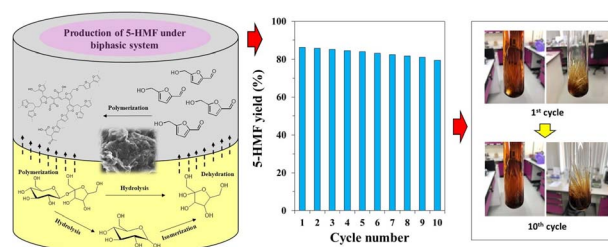
Yi Sheng, Hongmei Zheng, Jingting Hou, Wanying Zhang, Hong Chen, Luanjie Nie, Jing Zheng and Qingxue Lai*



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Selective regression models for the rapid upgrading of raw sugar into 5-HMF bio-fuel additive under a sustainable/reusable system

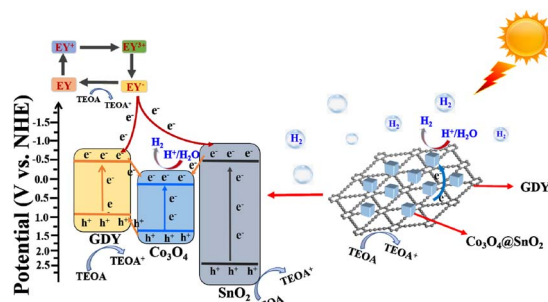
Panya Maneechakr,^{*} Irwan Kurnia, Asep Bayu, Obie Farobie, Chanatip Samart, Suwadee Kongparakul, Guoqing Guan and Surachai Karnjanakom^{*}



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Co₃O₄@SnO₂/graphdiyne type-II heterojunction and p-n heterojunction jointly enhance photocatalytic hydrogen production: Co–O–Sn bond as a bridge for electron transfer

Xin Guo,^{*} Qian Xiao, Tingting Yang, Yantao Sun and Zhiliang Jin^{*}



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Correction: Closing the balance – on the role of integrating biorefineries in the future energy system

Julia Granacher,^{*} Rafael Castro-Amoedo, Jonas Schnidrig and François Maréchal

