

Sustainable Energy & Fuels

Interdisciplinary research for the development of sustainable energy technologies

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ISSN 2398-4902 CODEN SEFUA7 7(23) 5435–5600 (2023)



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EDITORIAL

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Shaping the future of hybrid ion capacitors

Vanchiappan Aravindan,^{*} Martin Oschatz,^{*} Konstantin Schutjajew^{*} and Marta Sevilla^{*}

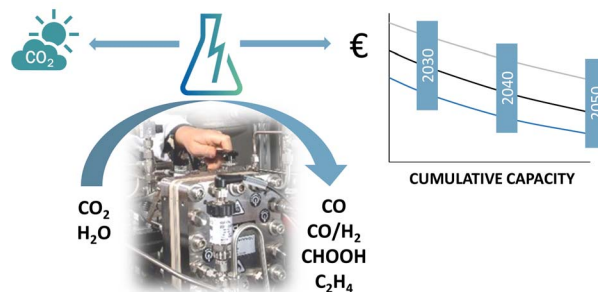


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Electrochemical CO₂ conversion technologies: state-of-the-art and future perspectives

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



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Sustainable Energy & Fuels (electronic: ISSN 2398-4902)

is published 24 times per year by the Royal Society of Chemistry,

Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK.

All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to the Royal Society of Chemistry Order Department, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK

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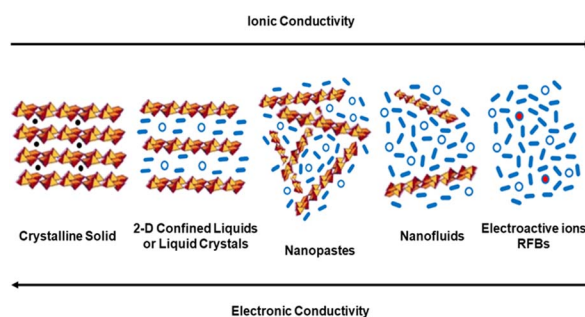


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To flow or not to flow. A perspective on large-scale stationary electrochemical energy storage

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

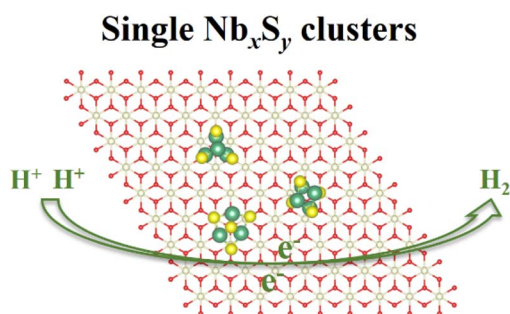


COMMUNICATIONS

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

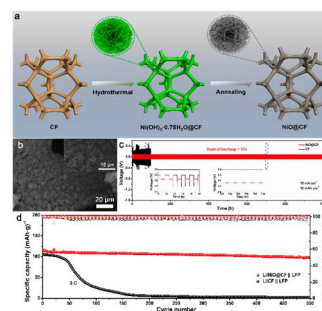
Hongxian Liu,* Chencheng Zhao, Hong Li, Xuelan Li, Xianfeng Mu, Dunhua Hong, Furu Zhong, Zhenxing Fang* and Yanning Zhang*



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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

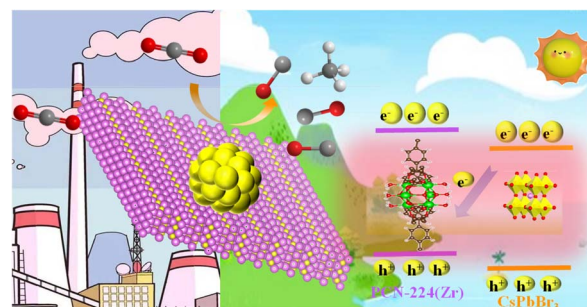


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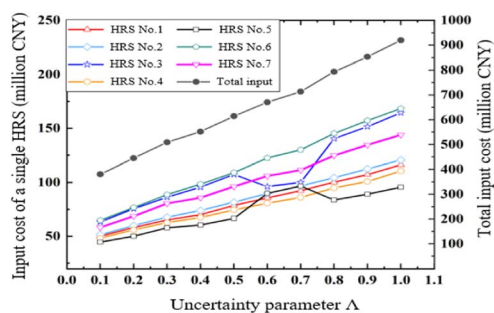
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Modulating CsPbBr₃ nanocrystals encapsulated in PCN-224(Zr) for boosting full-spectrum-driven CO₂ reduction: S-scheme transfer, photothermal-synergistic effect, and DFT calculations

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



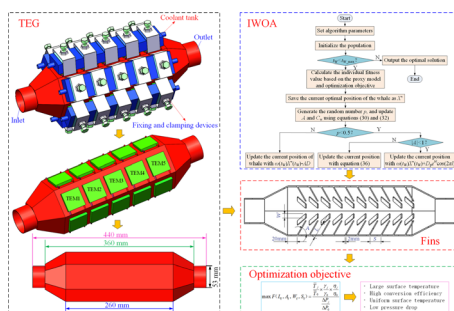
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Site planning and selection of hydrogen refueling stations considering the life cycle and demand uncertainty

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

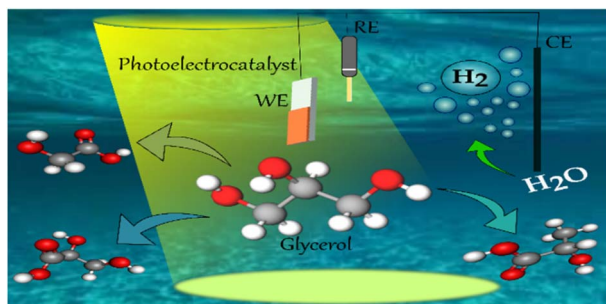
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Performance optimization of a thermoelectric generator for automotive application using an improved whale optimization algorithm

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

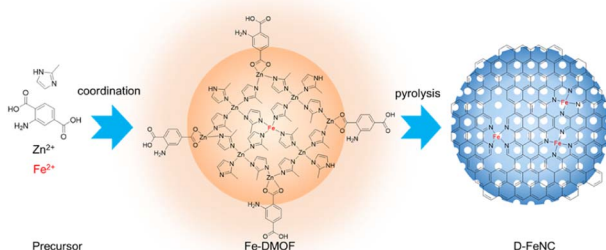
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Photoelectrochemical conversion of glycerol aqueous solution to value-added chemicals using $\text{Bi}_2\text{Fe}_4\text{O}_9$ as a photoanode

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*

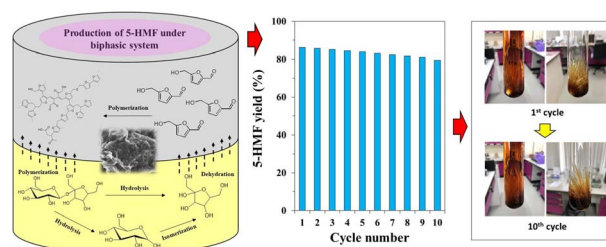


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Selective regression models for the rapid upgrading of raw sugar into 5-HMF bio-fuel additive under a sustainable/reusable system

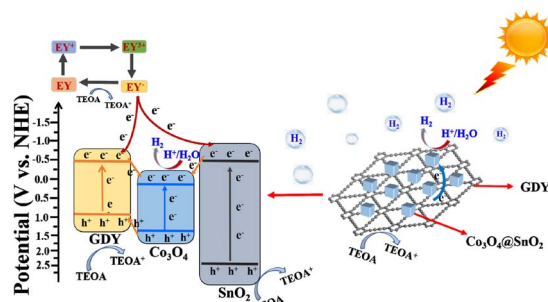
Panya Maneechakr,^{*} Irwan Kurnia, Asep Bayu, Obie Farobie, Chanatip Samart, Suwadee Kongparakul, Guoqing Guan and Surachai Karnjanakom^{*}



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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^{*}



CORRECTION

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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

