

Sustainable Energy & Fuels

Interdisciplinary research for the development of sustainable energy technologies

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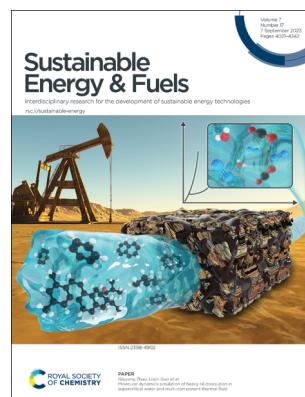
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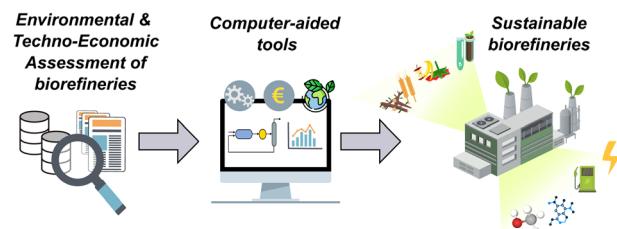
See Qiuyang Zhao, Liejin Guo *et al.*, pp. 4094–4109. Image reproduced by permission of Qiuyang Zhao from *Sustainable Energy Fuels*, 2023, 7, 4094.

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Integrated techno-economic and environmental assessment of biorefineries: review and future research directions

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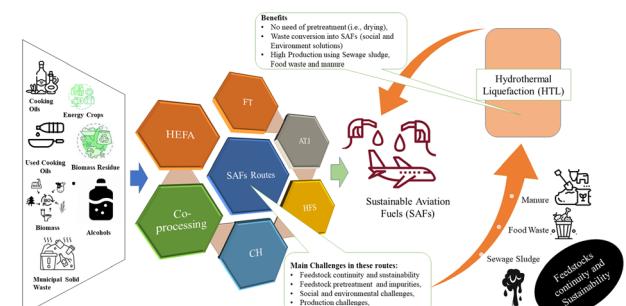


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The future of aviation soars with HTL-based SAFs: exploring potential and overcoming challenges using organic wet feedstocks

Muhammad Usman, Shuo Cheng, Sasipa Boonyubol and Jeffrey S. Cross*

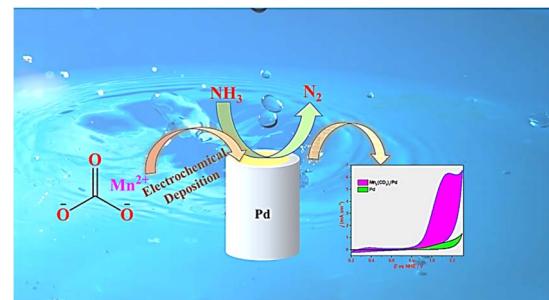


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Manganese carbonate as an efficient electrocatalyst for the conversion of ammonia ($\text{NH}_4^+/\text{NH}_3$) to dinitrogen

Iranna Udachyan, Jayesh T. Bhanushali, Amir Mizrahi, Tomer Zidki and Dan Meyerstein*

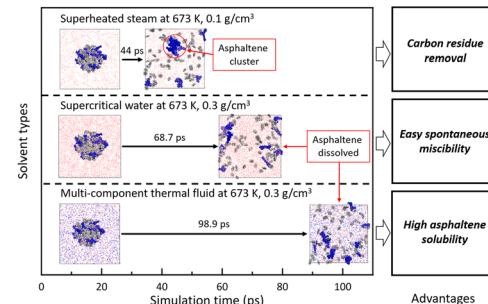


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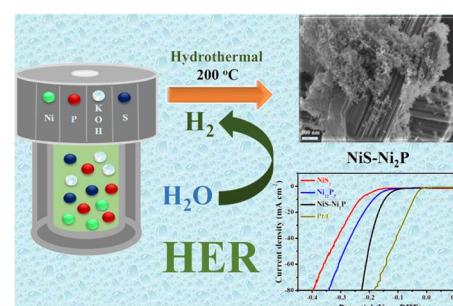
QIUYANG ZHAO,* LICHEN ZHENG, YU DONG, HUI JIN, YECHUN WANG and LIEJIN GUO*



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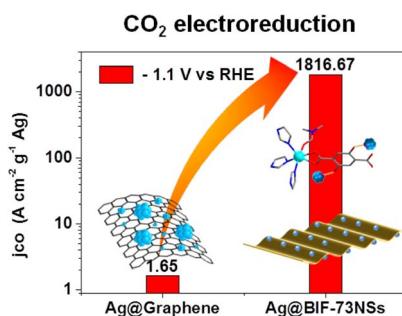
A phase-engineered nickel sulfide and phosphide ($\text{NiS}-\text{Ni}_2\text{P}$) heterostructure for enhanced hydrogen evolution performance supported with DFT analysis

JIBAN K. DAS, NACHIKETA SAHU, PRATAP MANE, BRAHMANANDA CHAKRABORTY and J. N. BEHERA*



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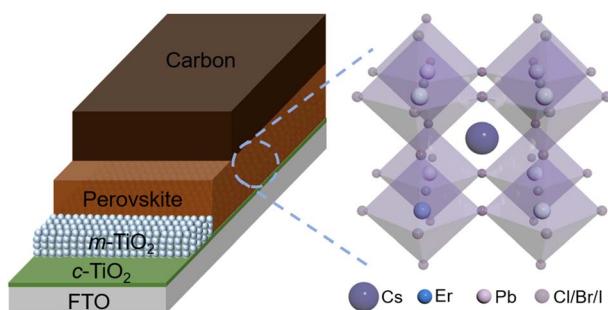
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Hydroxyl reduced silver nanoparticles on ultrathin boron imidazolate framework nanosheets for electrocatalytic CO₂ reduction

Ping Shao, Luocai Yi, Jun-Qiang Chen, Changsheng Cao, Hai-Xia Zhang* and Jian Zhang*

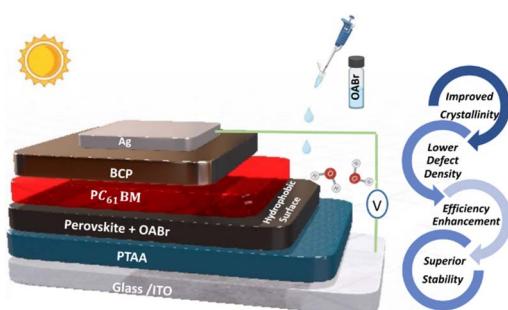
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Erbium-doped CsPb_{1.5}Br_{0.5} with enhanced crystalline quality and improved carrier lifetime for thermally stable all-inorganic perovskite solar cells

Mengfei Zhu, Lina Qin, Yuren Xia, Yi Hu, Xinmei Song, Daocheng Hong, Yuxi Tian, Zuoxiu Tie* and Zhong Jin*

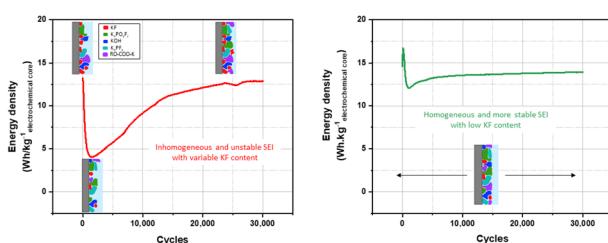
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An efficient approach for controlling the crystallization, strain, and defects of the perovskite film in hybrid perovskite solar cells through antisolvent engineering

Nikolaos Tzoganakis, Konstantinos Chatzimanolis, Emmanuel Spiliarotis, George Veisakis, Dimitris Tsikritzis* and Emmanuel Kymakis

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Marie-Eve Yvenat,* Benoit Chavillon, Eric Mayousse, Eric De Vito, Adrien Boulineau, Fabien Perdu and Philippe Azaïs

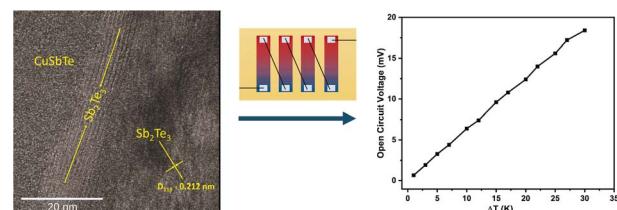


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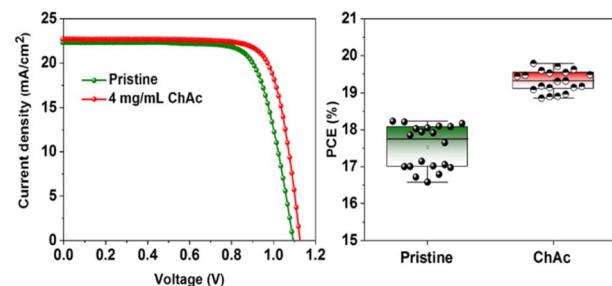
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Interface passivation using choline acetate for efficient and stable planar perovskite solar cells

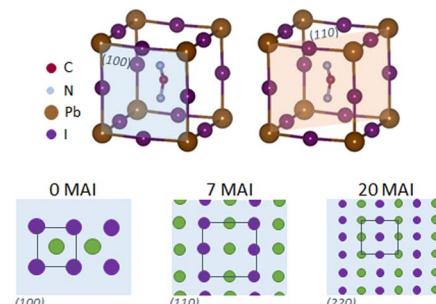
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Revealing the impact of the host-salt non-stoichiometry on the performance of perovskite solar cells

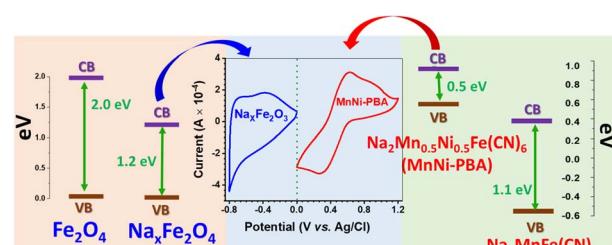
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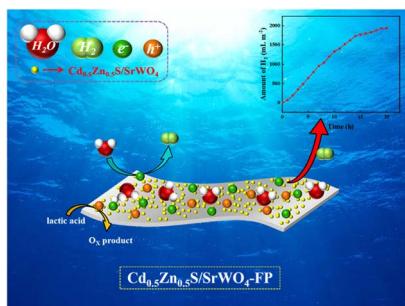
Low cost & quasi solid state $\text{Na}_2\text{Mn}_{0.5}\text{Ni}_{0.5}\text{Fe}(\text{CN})_6$ // $\text{Na}_x\text{Fe}_2\text{O}_3$ hybrid Na-ion batteries for solar energy storage

Pappu Naskar, Shubhrajyoti Mondal, Biplab Biswas, Sourav Laha* and Anjan Banerjee*



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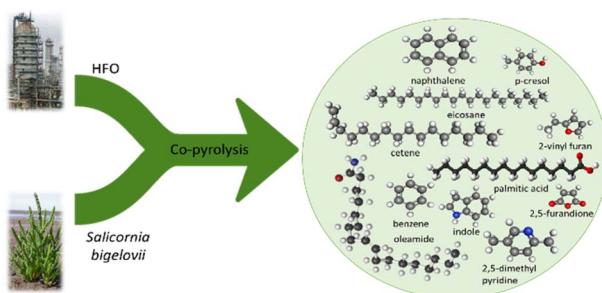
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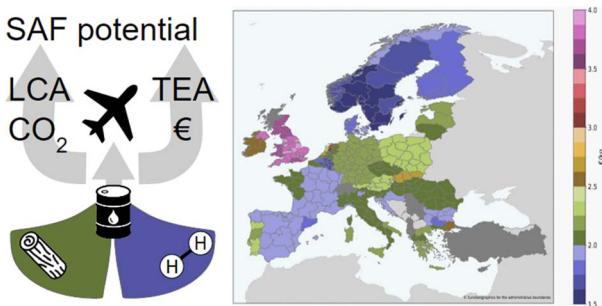
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Interactions in co-pyrolysis of *Salicornia bigelovii* and heavy fuel oil

Jinan Aljaziri,* Ribhu Gautam* and S. Mani Sarathy

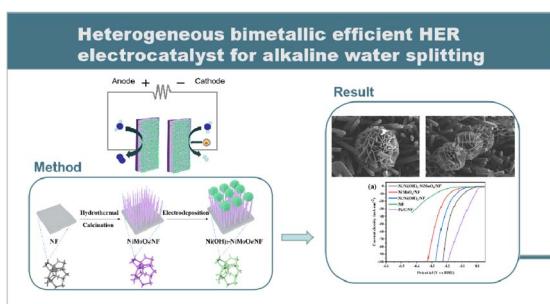
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Felix Habermeyer,* Veatriki Papantoni, Urte Brand-Daniels and Ralph-Uwe Dietrich

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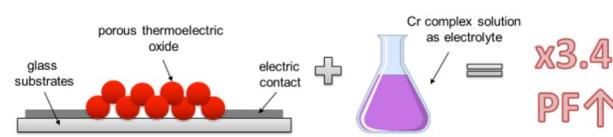


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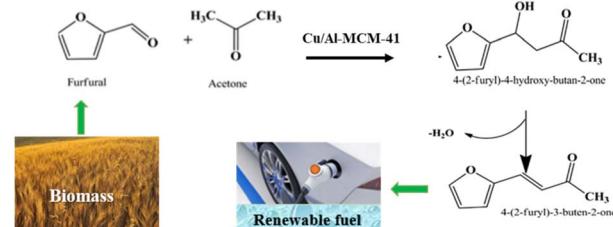
S. Castro-Ruiz, L. Márquez-García, M. Solis-de la Fuente, B. Beltrán-Pitarch, A. Mota-Babiloni, F. Vidan, P. Íñigo-Rabinal, G. Guisado-Barrios and J. García-Cañadas*



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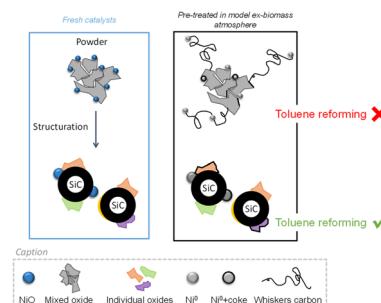
Priyanga Gandhi, Biswajit Saha, Sundaramurthy Vedachalam and Ajay K. Dalai*



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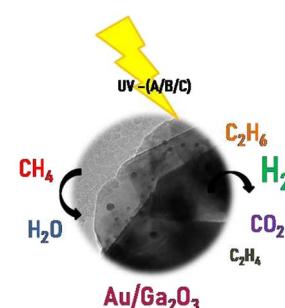
Lole Jurado,* Michaël Martin Romo y Morales, Sébastien Thomas and Anne-Cécile Roger



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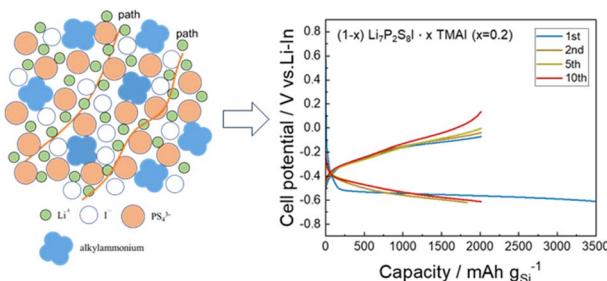
Methane conversion coupled with hydrogen production from water using Au/Ga₂O₃ photocatalysts prepared by different methods

Eliane R. Januario,* Saulo A. Carminati, Aryane Tofanello, Bruno L. da Silva, Patricia F. Silvaino, Arthur P. Machado, Jorge M. Vaz and Estevam V. Spinacé



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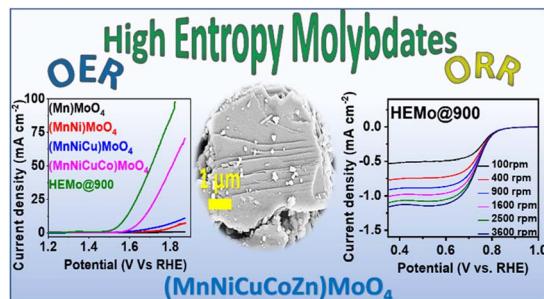
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Inorganic–organic hybrid solid electrolytes in the tetramethylammonium iodide–LiI–Li₂S–P₂S₅ system for all-solid-state lithium batteries

Tong Fang, Hikaru Tokiwa, Akira Miura and Kiyoharu Tadanaga*

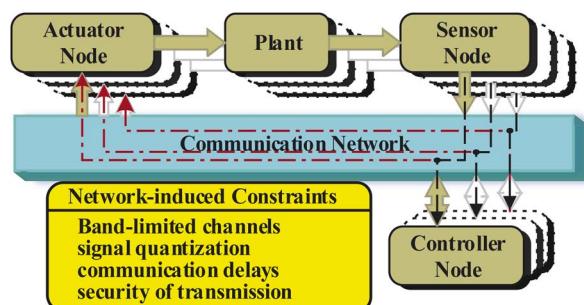
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Achieving favourable oxygen electrocatalytic activity with compositionally complex metal molybdates

Hemanth Kumar Beere, Pranav Kulkarni, Uday Narayan Maiti, R. Geetha Balakrishna, Priyam Mukherjee, Hyun Young Jung, Ketaki Samanta and Debasis Ghosh*

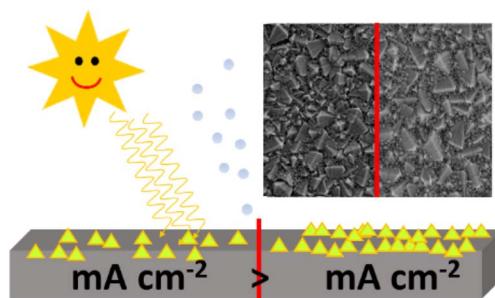
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Hanmei Zhou, Qishui Zhong,* Shaoyu Hu, Jin Yang, Kaibo Shi and Shouming Zhong

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Mirco Ade, Lion Schumacher and Roland Marschall*

