Sustainable Energy & Fuels

Interdisciplinary research for the development of sustainable energy technologies

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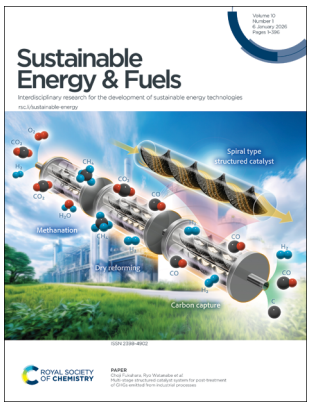
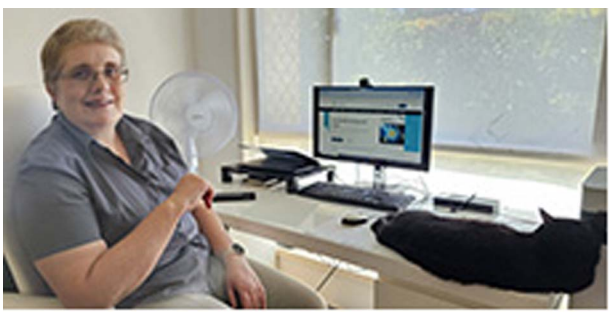
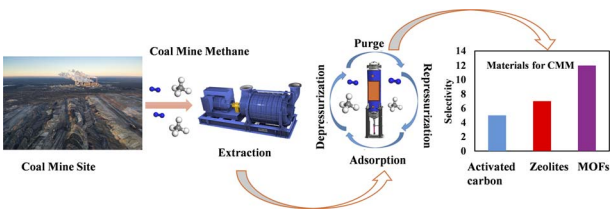


Cover
See Choji Fukuhara, Ryo Watanabe *et al.*, pp. 211–226. Image reproduced by permission of Choji Fukuhara and Ryo Watanabe from *Sustainable Energy Fuels*, 2026, **10**, 211.

EDITORIAL



REVIEWS



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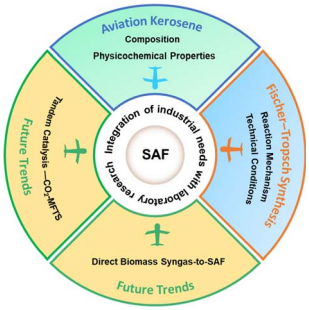

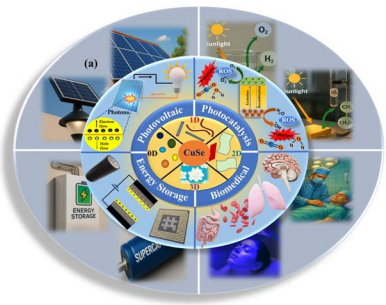

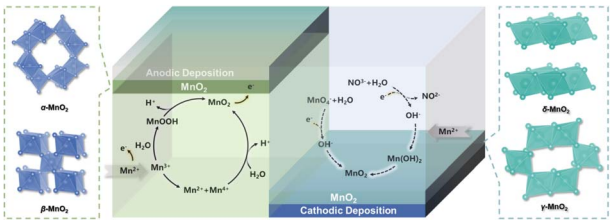

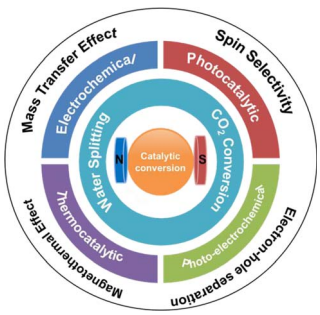

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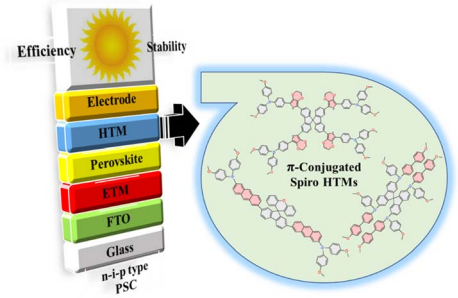
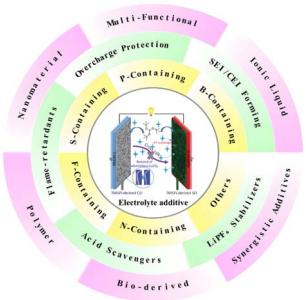


Optimizing π-conjugated system of spiro-based HTMs; structures and concept towards boosting efficiency of PSCs

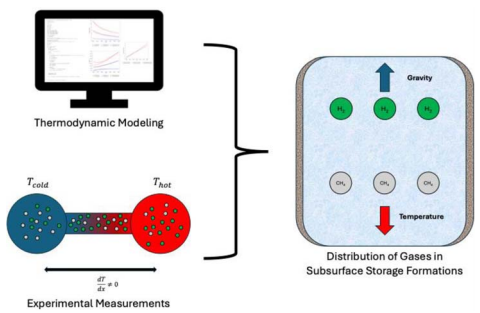
Zanira Mushtaq, Abdul Ahad, Sabahat Asghar, Muhammad Sajid Abbas, Ayesha Zafar, Adnan Majeed, Muhammad Adnan Iqbal,* Muhammad Nadeem, Shahzaib Ali and Sana Ejaz



Electrolyte additives in Li-ion batteries: from mechanisms to application

Runze Zhang, Yinglei Wu,* Guangfu Ge, Jinxuan Liu, Jihu Wang, Sirui Wang and Zhongyi He

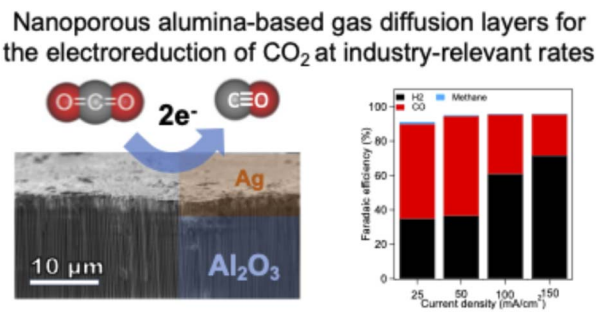
PERSPECTIVE



Thermal diffusion of hydrogen-containing gas mixtures: applications to underground hydrogen storage

Jimin D. Zhou,* Kristian Jessen and Anthony R. Kovscek

COMMUNICATION



Nanoporous anodic alumina-based gas diffusion layers for the electroreduction of CO_2

María Pilar Montero-Rama, Domenico Grammatico, Janine Lichtenberger, Virginie Pellerin, Emilio Palomares, Laurent Billon, Lluis F. Marsal* and Aurelien Viterisi*

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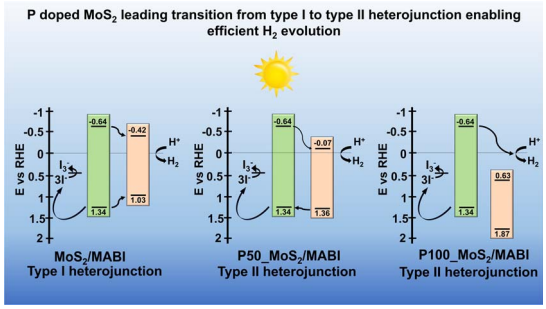

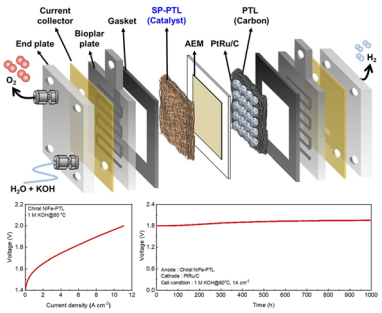

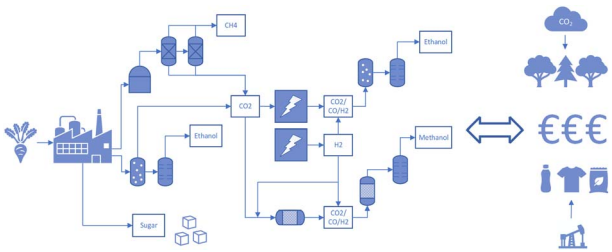

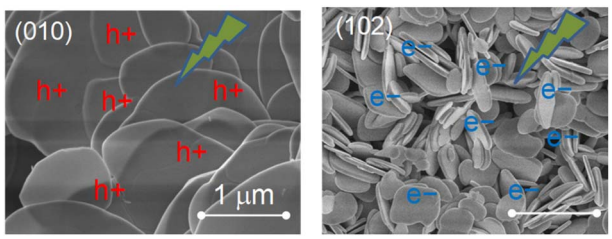

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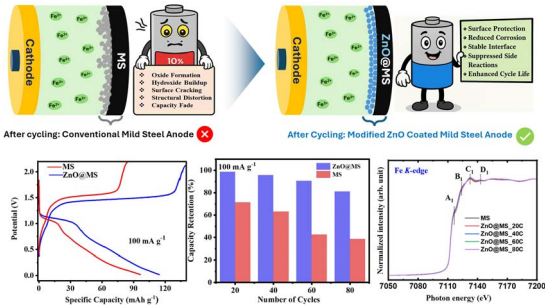

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Jitendra Kumar Yadav, Subhajit Nandy, Keun Hwa Chae, Jitendra Pal Singh and Ambesh Dixit*

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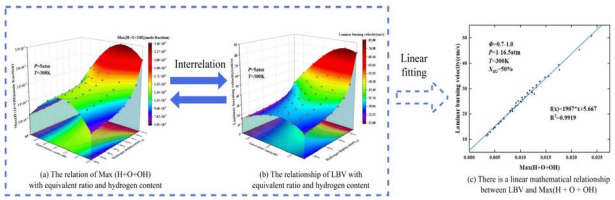

Study on the influence of hydrogen addition on ethane/air laminar burning velocity, key species production, and implied physicochemical effects

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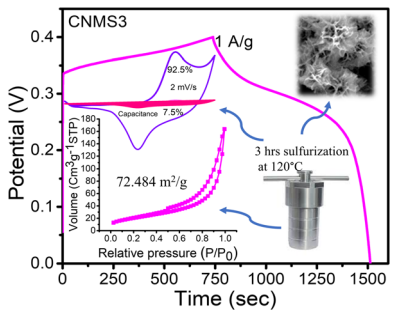

Tailoring supercapacitor performance *via* sulfur engineering in ternary CoNiMoS electrodes

Trupti Tanaya Mishra, Manisha Sadangi, J. N. Behera,* Mohua Chakraborty* and Dhrubojyoti Roy*

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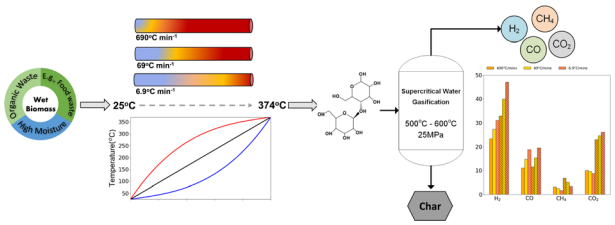

Optimising supercritical water gasification of biomass: exploring heating strategy through a quantitative kinetic modelling approach

Robert Sait-Stewart, Leo Lue and Jun Li*

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Hollow Sb nanocrystals confined in N, S Co-doped carbon nanofibers boosting sodium-ion transport for high-performance sodium-ion batteries

Qiushi Huang, Yejian Yu, Rujia Zou,* Jinqi Zhu* and Huifang Chen*