

Sustainable Energy & Fuels

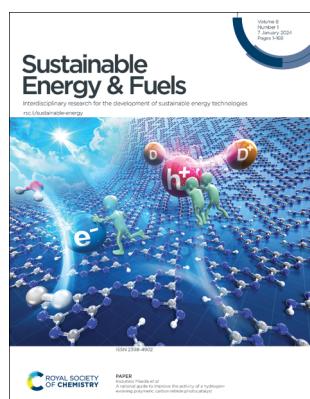
Interdisciplinary research for the development of sustainable energy technologies

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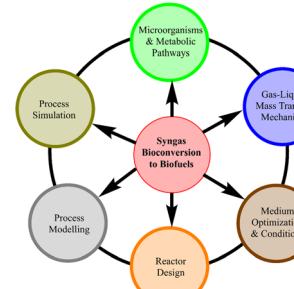
See Kazuhiko Maeda *et al.*, pp. 36–42. Image reproduced by permission of Kazuhiko Maeda from *Sustainable Energy Fuels*, 2024, 8, 36.

REVIEW

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Syngas conversion to biofuels and biochemicals: a review of process engineering and mechanisms

Habiba Khalid, Farrukh Raza Armin, Lian Gao, Limei Chen, Wuxi Chen, Sundus Javed and Demao Li*

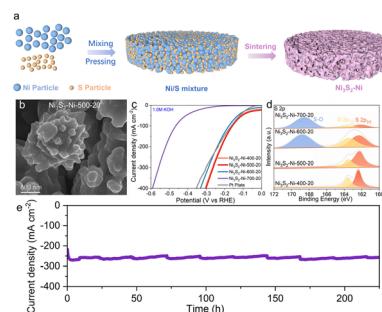


COMMUNICATION

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An efficient Ni_3S_2 –Ni electrode constructed by a one-step powder metallurgy approach for the hydrogen evolution reaction

Yang Zhao, Xiaoqian Shi, Bin Zhang, Shizhong Wei,* Jiping Ma, Jianbin Lai, Guangmin Zhou and Huan Pang





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Fundamental questions
Elemental answers

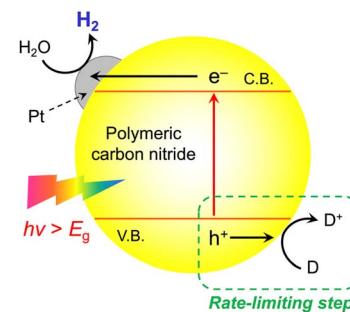
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A rational guide to improve the activity of a hydrogen-evolving polymeric carbon nitride photocatalyst

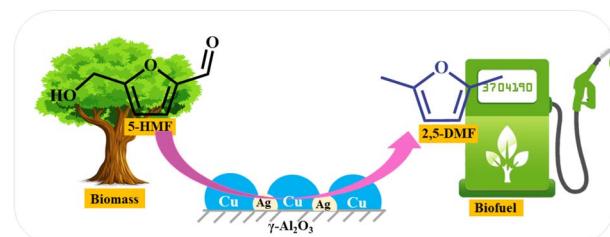
Kazuhiko Maeda,* Tomoharu Maeda, Chomponoot Suppaso, Shunta Nishioka, Yoshinobu Kamakura, Shuhei Yasuda and Toshiyuki Yokoi



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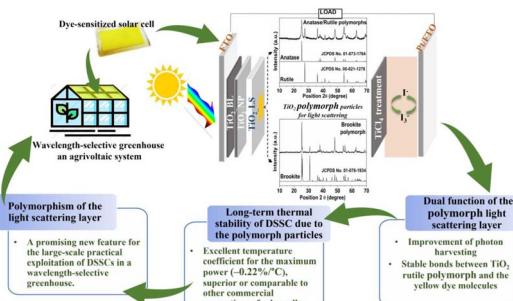
D. Dhana Lakshmi, Yogita, B. Srinivasa Rao and N. Lingaiah*



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Towards the thermal stability of dye-sensitized solar cells for wavelength-selective greenhouses using the polymorphism of light-scattering layers

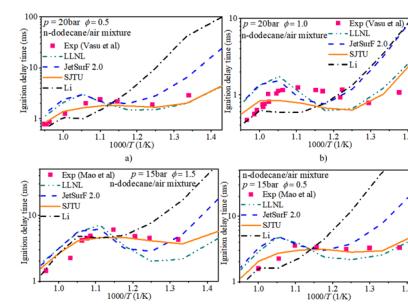
Daniel Ursu, Melinda Vajda, Elisei Ilieş, Radu Ricman, Magdalena Marinca, Szilard Bularka, Marinela Miclau* and Aurel Gontean*



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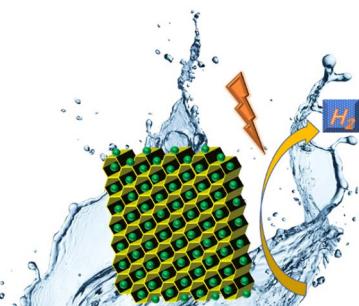
Auto-ignition and reaction kinetic characteristics of hydrogen-enriched *n*-dodecane mixtures under engine-like thermodynamic conditions

Zhihao Yang, Changhui Zhai,* Zhen Gong and Yejian Qian



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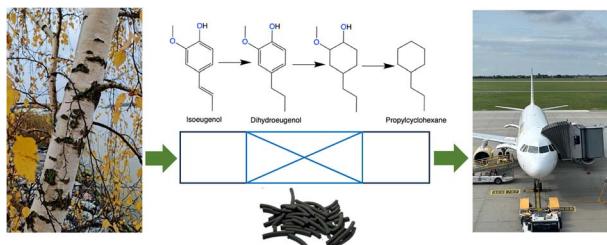
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Honeycomb-like hollow carbon loaded with ruthenium nanoparticles as high-performance HER electrocatalysts

Peng-Cheng Ji, Yang Teng, Hong-Cheng Li, Ming-Yun Guan and Hai-Lang Jia*

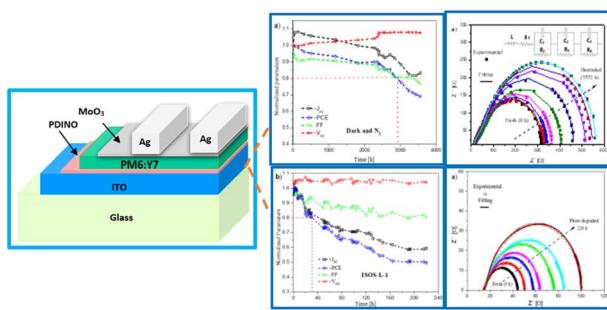
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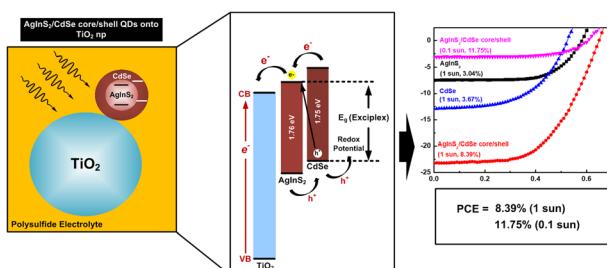
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Angel Sacramento,* José L. Abad, Magaly Ramírez-Como, Victor S. Balderrama and Magali Estrada

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Siti Utari Rahayu, Yu-Rou Wang, Jen-Bin Shi and Ming-Way Lee*

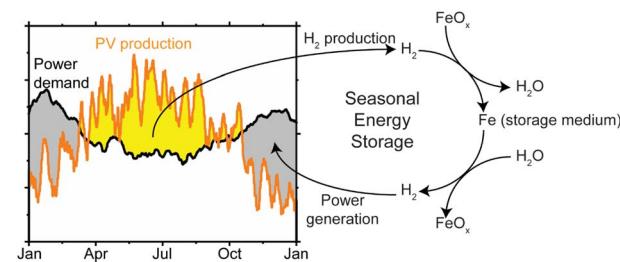


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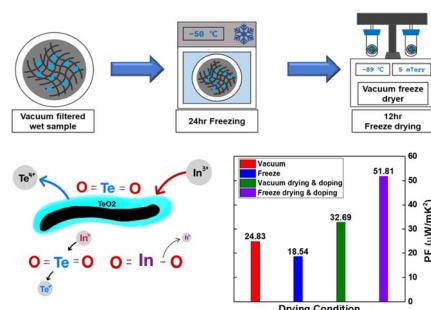
Samuel P. Heiniger, Zhiyuan Fan, Urs B. Lustenberger and Wendelin J. Stark*



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Powerful drying and doping strategies for enhancing the thermoelectric performance of tellurium nanostructures prepared via green hydrothermal synthesis

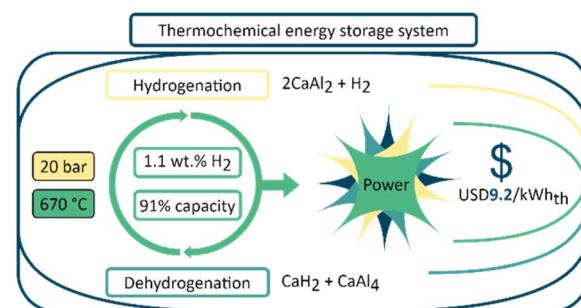
In Ho Kim and Yong Jin Jeong*



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Calcium hydride with aluminium for thermochemical energy storage applications

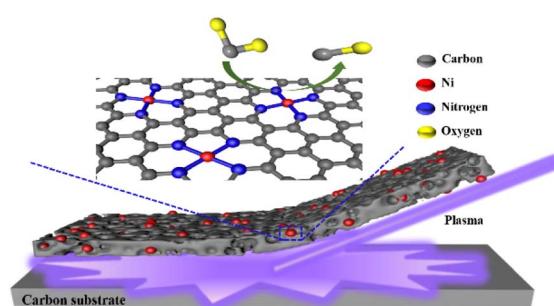
Lucie Desage, Terry D. Humphries,* Mark Paskevicius and Craig. E. Buckley



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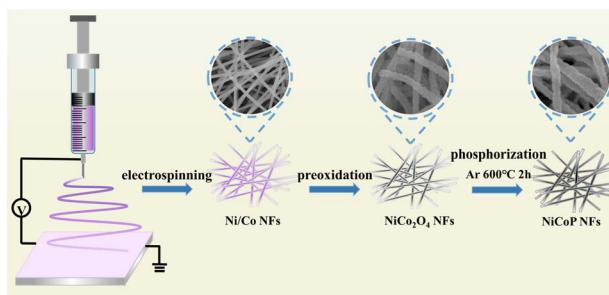
Ni single-atom catalysts for highly efficient electrocatalytic CO₂ reduction: hierarchical porous carbon as a support and plasma modification

QiuLin Ye, YaQi Peng,* DongDong Wang, JiaBao Lv, YaoYue Yang, Yue Liu, Zhifu Qi, SongQiang Zhu, ChunLiang Ge, Yan Yang, AngJian Wu* and ShengYong Lu*



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**One-dimensional nickel–cobalt bimetallic phosphide nanostructures for the oxygen evolution reaction**

Yue Wang, Xin Chang, Zexing Huang, Jiahui Fan, Lu Li* and Mingyi Zhang*

