

# Sustainable Energy & Fuels

Interdisciplinary research for the development of sustainable energy technologies

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### Cover

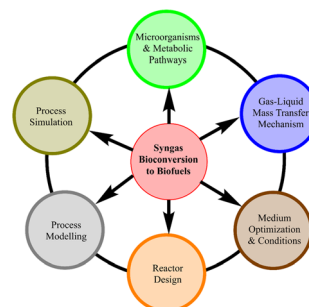
See Kazuhiko Maeda *et al.*, pp. 36–42. Image reproduced by permission of Kazuhiko Maeda from *Sustainable Energy Fuels*, 2024, 8, 36.

## REVIEW

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

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

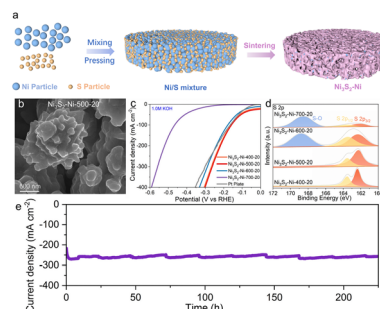


## COMMUNICATION

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### An efficient $\text{Ni}_3\text{S}_2$ –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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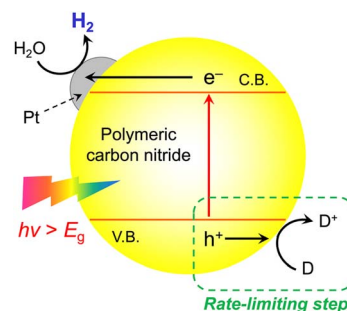
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## A rational guide to improve the activity of a hydrogen-evolving polymeric carbon nitride photocatalyst

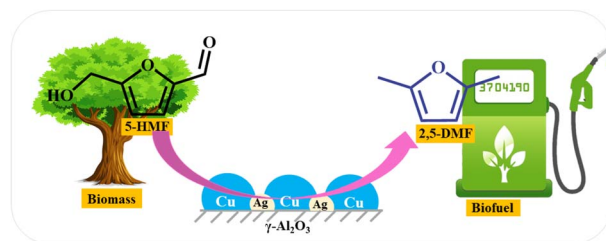
Kazuhiko Maeda,\* Tomoharu Maeda, Chomponoot Suppasso, Shunta Nishioka, Yoshinobu Kamakura, Shuhei Yasuda and Toshiyuki Yokoi



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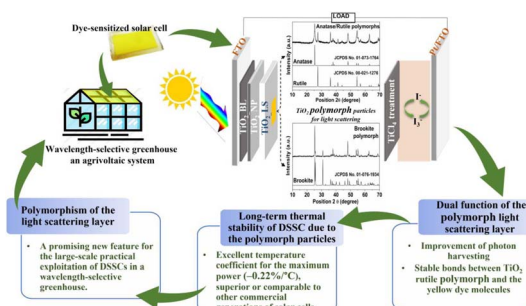
D. Dhana Lakshmi, Yogita, B. Srinivasa Rao and N. Lingaiah\*



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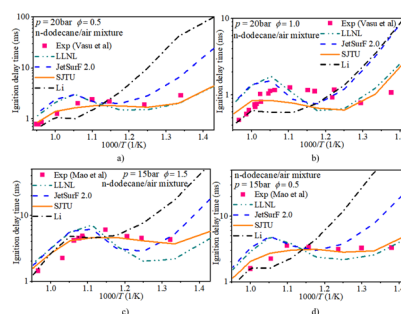
Daniel Ursu, Melinda Vajda, Elisei Ilieș, Radu Ricman, Magdalena Marinca, Szilard Bularka, Marinela Miclău\* and Aurel Gontean\*



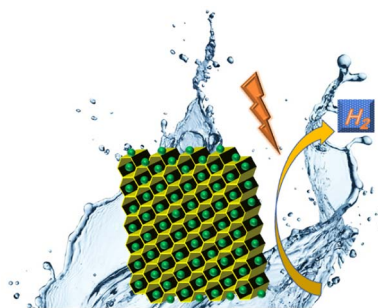
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Zhihao Yang, Changhui Zhai,\* Zhen Gong and Yejian Qian

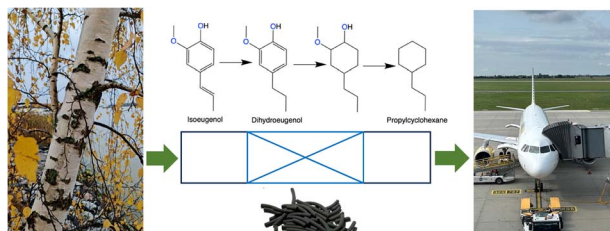






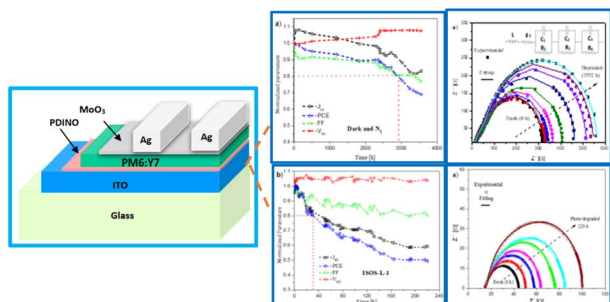
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Peng-Cheng Ji, Yang Teng, Hong-Cheng Li, Ming-Yun Guan and Hai-Lang Jia\*



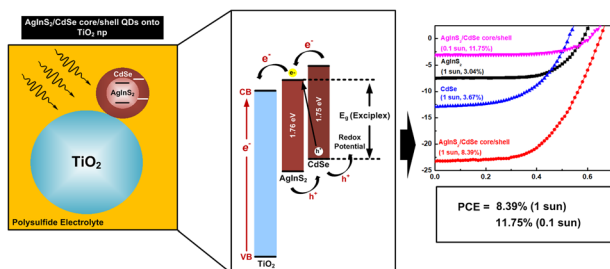
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Angel Sacramento,\* José L. Abad, Magaly Ramírez-Como, Victor S. Balderrama and Magali Estrada



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

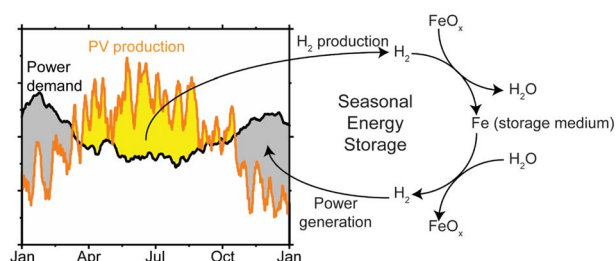


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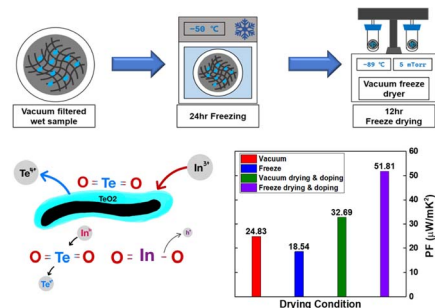
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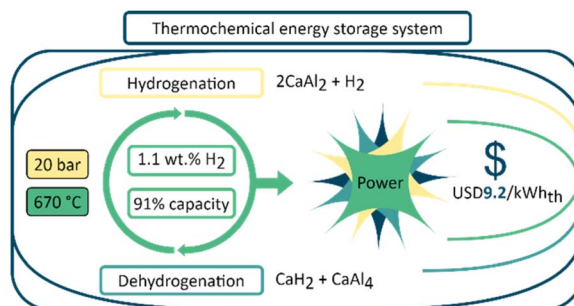
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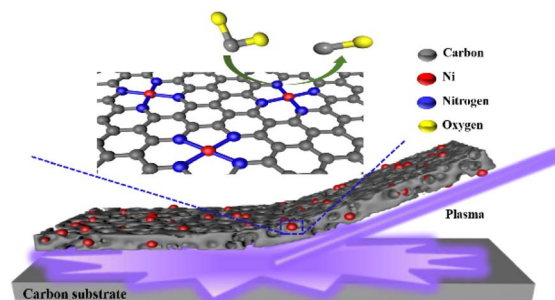
Lucie Desage, Terry D. Humphries,\* Mark Paskevicius and Craig. E. Buckley

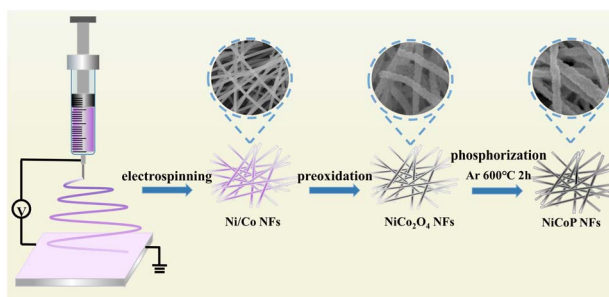


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### Ni single-atom catalysts for highly efficient electrocatalytic CO<sub>2</sub> reduction: hierarchical porous carbon as a support and plasma modification

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\*





## 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\*

