

Sustainable Energy & Fuels

Interdisciplinary research for the development of sustainable energy technologies

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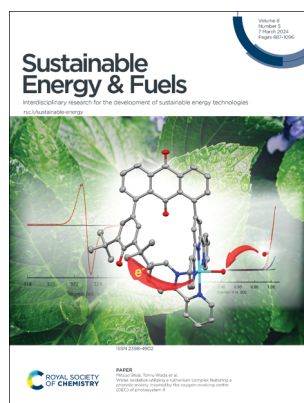
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See Unho Jung, Ki Bong Lee, Kee Young Koo *et al.*, pp. 896–904. Image reproduced by permission of Younghee Lee.



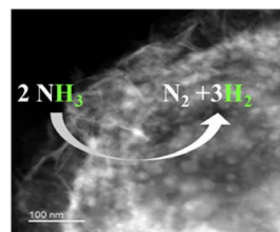
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See Mitsuo Shoji, Tohru Wada *et al.*, pp. 905–913. Image reproduced by permission of Tohru Wada from *Sustainable Energy Fuels*, 2024, 8, 905.

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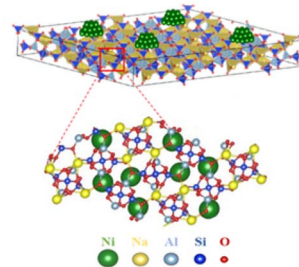
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Clean hydrogen production from ammonia decomposition over zeolite 13X-supported Ni catalysts

Jiyu Kim, Kyoung Deok Kim, Unho Jung,* Yongha Park, Ki Bong Lee* and Kee Young Koo*



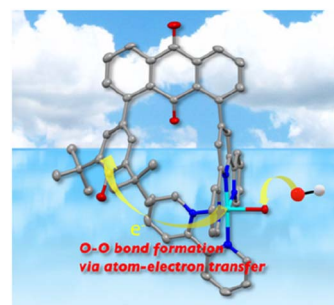
Ni/Zelite 13X(DP)



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Yugo Kumagai, Risa Takabe, Takashi Nakazono, Mitsuo Shoji,* Hiroshi Isobe, Kizashi Yamaguchi, Tomoyo Misawa-Suzuki, Hirotaka Nagao and Tohru Wada*



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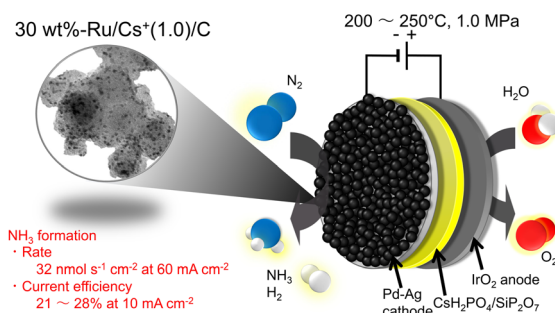
Fundamental questions
Elemental answers



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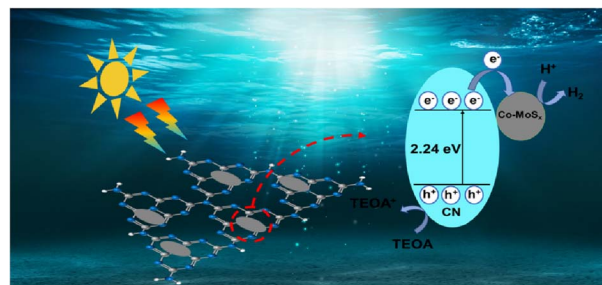
Shintaroh Nagaishi, Rika Hayashi, Aika Hirata, Raisei Sagara and Jun Kubota*



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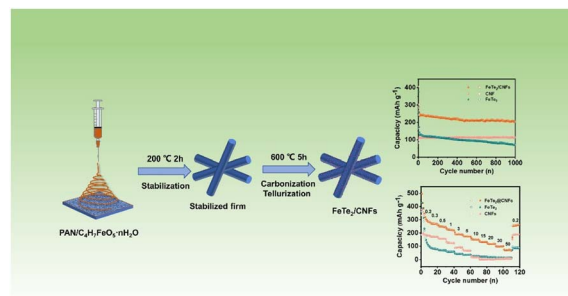
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Constructing FeTe₂ nanoparticles embedded in N-doped carbon nanofiber composites as a long-life and high-rate anode material for sodium-ion batteries

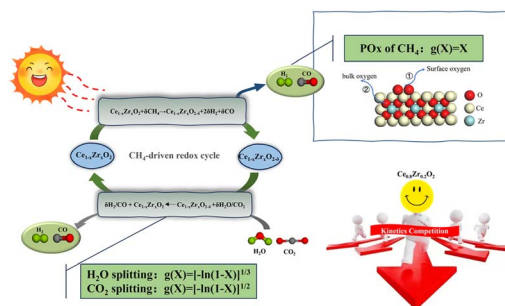
Zihua Lin, Haiyan Zhang,* Changsheng Yang, Zhenjiang Liu, Daofeng Wen, Xiang Peng, Shengkai Li and Xia Wu



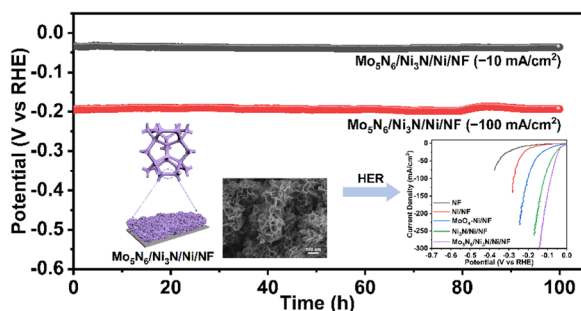
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Yanxin Liu, Shuting Cen, Changsheng Bu,* Daoyin Liu and Guilin Piao



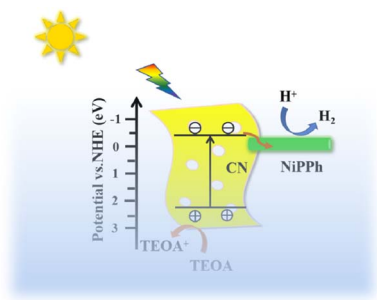
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Yang Zhou, Jing Zhou, Muzaffar Ahmad Boda, Kunfeng Zhao, Haojie Ma, Chenhao Shi, Dingwang Yuan* and Zhiguo Yi*

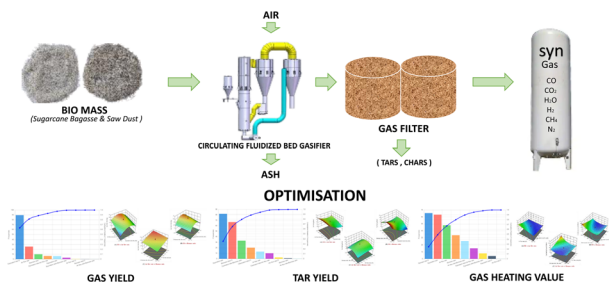
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Construction of novel 1D nickel phosphonate nanorod modified 2D g- C_3N_4 nanosheets for enhanced photocatalytic hydrogen evolution performance

Xin-Lian Song, Sixiang Zhai, Jin-Tao Ren, Lijiao Gao and Zhong-Yong Yuan*

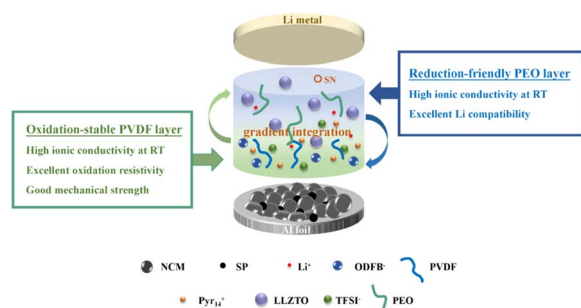
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An experimental and response-surface-based optimization approach towards production of producer gas in a circulating fluidized bed gasifier using blends of renewable fibre-based biomass mixtures

Chokkalingam Viswakethu,* Ramanathan Pichappan, Prakash Perumal and Natrayan Lakshmaiya

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Gradient-integrated bilayer solid polymer electrolyte enabling enhanced room-temperature cyclability for rechargeable lithium metal batteries

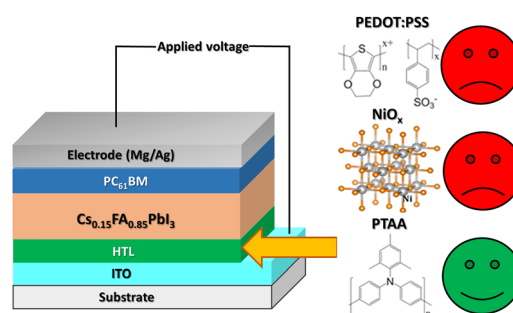
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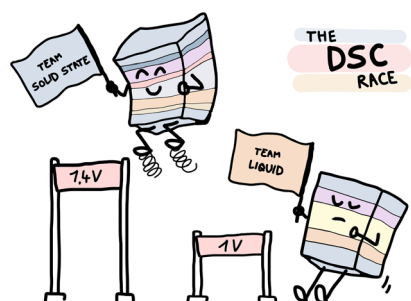
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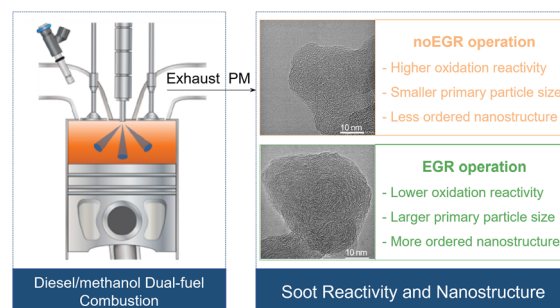
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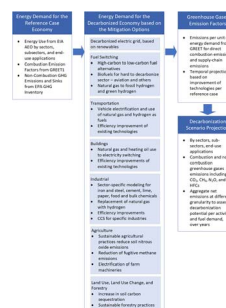
Hao Chen, Zhenhua Ji, Xiaochen Wang,* Mingzhang Pan, Chengshan Yi and Peng Zhang



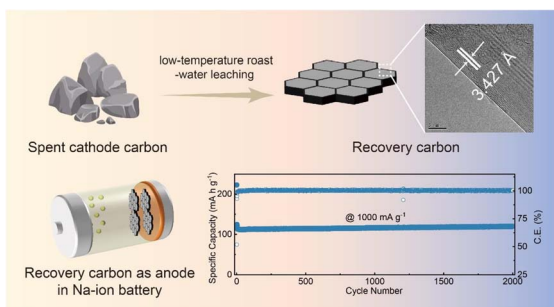
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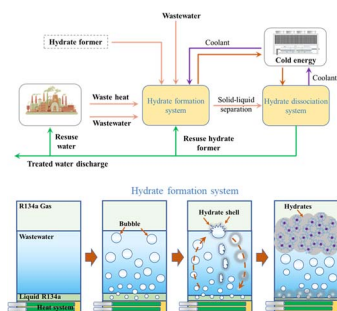
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Stable and fast Na-ion storage of recovered carbon from the spent carbon cathode of aluminum electrolysis

Yao Lu, Zhifan Hua, Chao Chen, Zibo Chen, Xinyi Li, Hailin Yu, Ke Peng* and Zhongliang Tian*

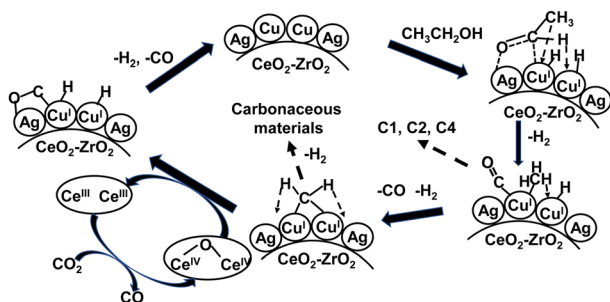
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Low-grade waste heat recovery for wastewater treatment using clathrate hydrate based technology

Lingjie Sun, Aliakbar Hassanpouryouzband,* Tian Wang, Fan Wang, Lunxiang Zhang,* Chuanxiao Cheng, Jiafei Zhao and Yongchen Song*

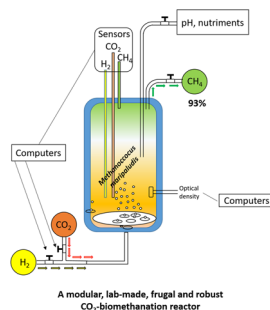
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Naoya Inoue, Yuuki Hatooka, Chihiro Okada, Shiori Shimidzu, Tadanori Hashimoto and Atsushi Ishihara*

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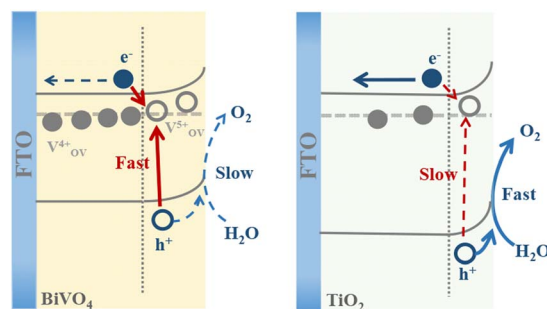
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Wenjun Zhu, Yuling Yuan and Yimeng Ma*



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High performance alkyl dialkoxyalkanoate bioderived transportation fuels accessed using a mild and scalable synthetic protocol

Nicholas R. Myllenbeck,* Eric Monroe, Mysha Sarwar, Teresa Alleman, Cameron Hays, Jon Luecke, Junqing Zhu, Charles McEnally, Lisa Pfefferle, Anthe George and Ryan W. Davis

