

Sustainable Energy & Fuels

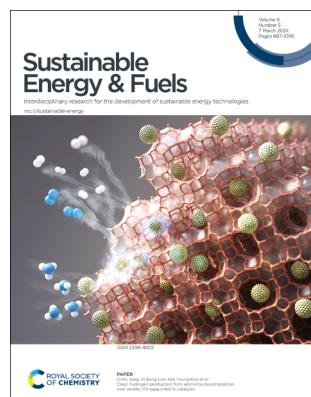
Interdisciplinary research for the development of sustainable energy technologies

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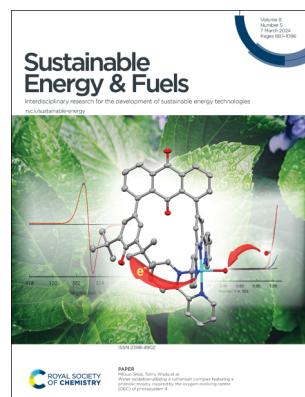
IN THIS ISSUE

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Cover

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



Inside cover

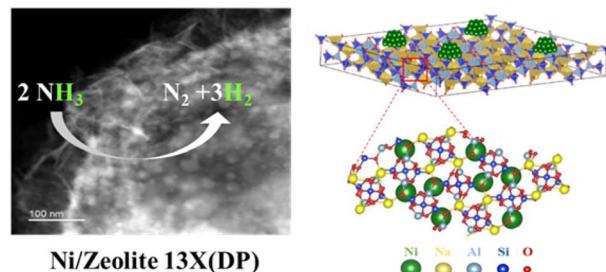
See Mitsu Shoji, Tohru Wada et al., pp. 905–913. Image reproduced by permission of Tohru Wada from *Sustainable Energy Fuels*, 2024, 8, 905.

PAPERS

896

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

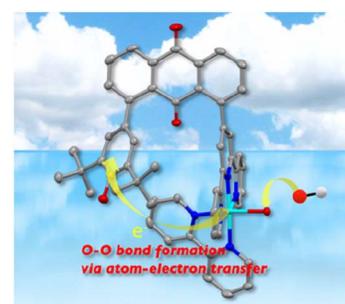
Jiyu Kim, Kyoung Deok Kim, Unho Jung,* Yongha Park, Ki Bong Lee* and Kee Young Koo*



905

Water oxidation utilizing a ruthenium complex featuring a phenolic moiety inspired by the oxygen-evolving centre (OEC) of photosystem II

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



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Elemental answers

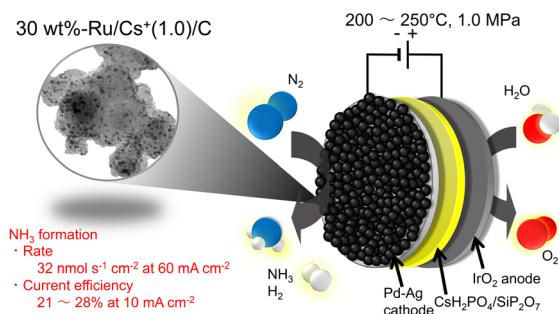


PAPERS

914

Ammonia synthesis from nitrogen and steam using electrochemical cells with a hydrogen-permeable membrane and Ru/Cs⁺/C catalysts

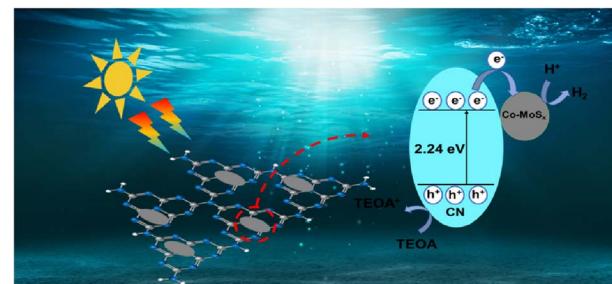
Shintaroh Nagaishi, Rika Hayashi, Aika Hirata, Raisei Sagara and Jun Kubota*



927

In situ photodeposition of loaded Co–MoS_x for promoting visible-light g-C₃N₄ photocatalytic hydrogen production performance

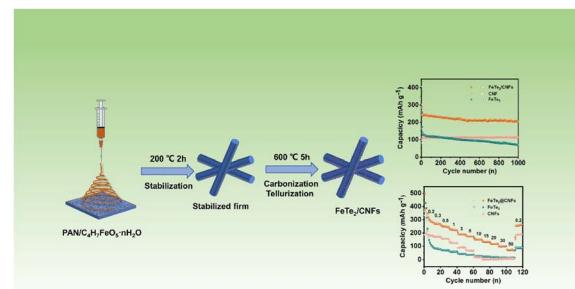
Yonggang Lei, Kim Hoong Ng, Chenyu Zou, Lejun Chen, Yuekun Lai* and Jianying Huang*



934

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

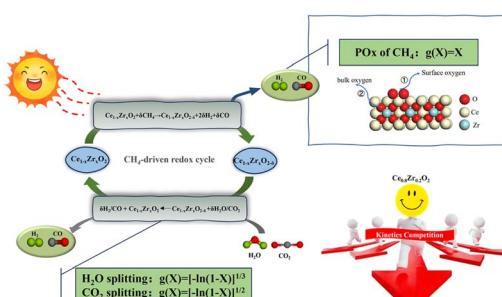
Zihua Lin, Haiyan Zhang,* Changsheng Yang, Zhenjiang Liu, Daofeng Wen, Xiang Peng, Shengkai Li and Xia Wu



942

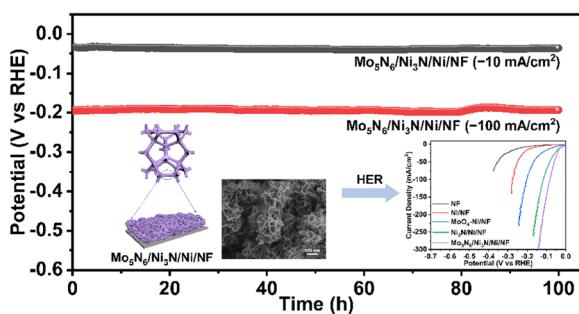
Redox kinetics of ceria–zirconia (Ce_{1-x}Zr_xO_{2-δ}) for thermochemical partial oxidation of methane and H₂O/CO₂ splitting at moderate temperature

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



PAPERS

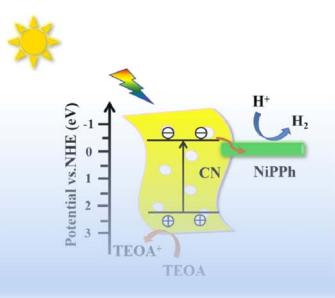
957



Constructing interfacial structure of $\text{Mo}_5\text{N}_6/\text{Ni}_3\text{N}/\text{Ni}/\text{NF}$ for efficient and stable electrocatalytic hydrogen evolution under alkaline conditions

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

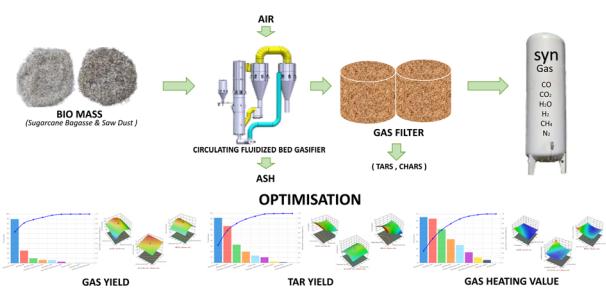
964



Construction of novel 1D nickel phosphonate nanorod modified 2D g-C₃N₄ nanosheets for enhanced photocatalytic hydrogen evolution performance

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

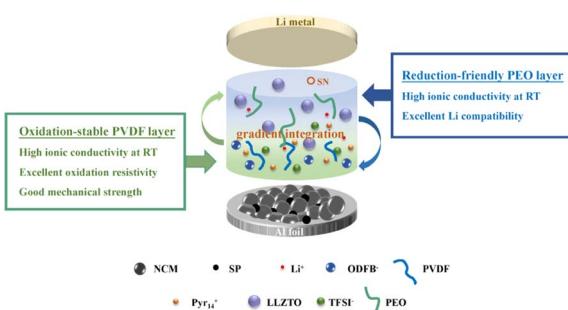
975



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

987



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

Yan Yuan,* Xuyi Liu, Kesi Xue, Yixin Kong, Bin Wang, Huan Liu, Cong Li, Zeyu Li, Yitian Ma and Hai Lu*

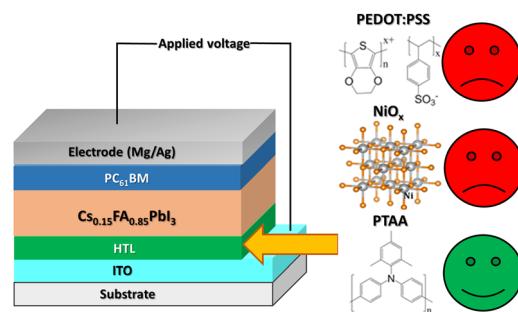


PAPERS

997

Impact of hole-transport layer materials on the field-induced degradation of p-i-n perovskite solar cells

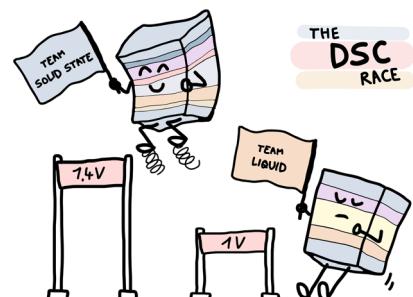
Victoria V. Ozerova, Nikita A. Emelianov,* Lyubov A. Frolova, Yuri S. Fedotov, Sergey I. Bredikhin, Sergey M. Aldoshin and Pavel A. Troshin



1004

A solid-state p–n tandem dye-sensitized solar cell

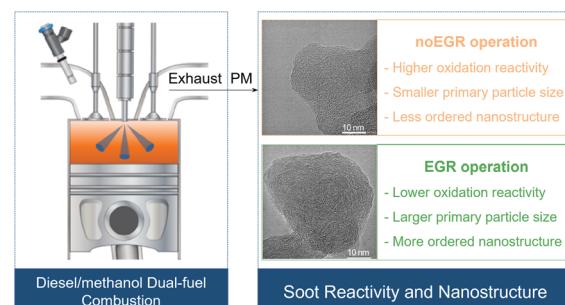
Sina Wrede, Bin Cai, Fangwen Cheng, Malin B. Johansson, Tomas Kubart, Carl Hägglund and Haining Tian*



1012

Investigation of the nanostructure and reactivity of soot particulates from diesel/methanol dual-fuel combustion with and without EGR

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



1024

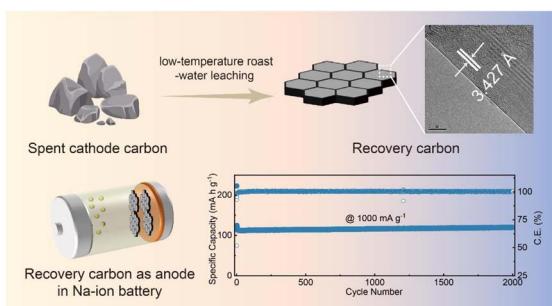
A deep decarbonization framework for the United States economy – a sector, sub-sector, and end-use based approach

Saurajyoti Kar, Troy R. Hawkins,* George G. Zaiimes, Doris Oke, Udayan Singh, Xinyi Wu, Hoyoung Kwon, Shannon Zhang, Guiyan Zang, Yan Zhou, Amgad Elgowainy, Michael Wang and Ookie Ma



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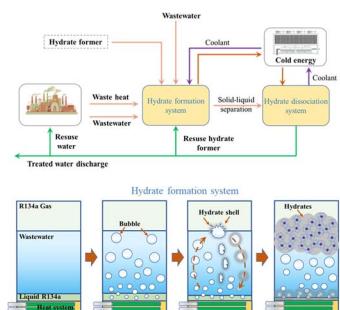
1040



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*

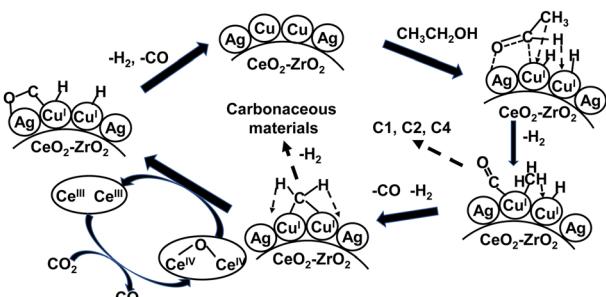
1048



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*

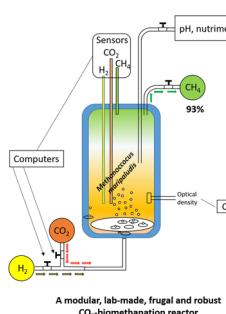
1057



Reforming of ethanol with carbon dioxide catalysed by silver-promoted copper-ceria-zirconia composites

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

1068



Development of a CO₂-biomethanation reactor for producing methane from green H₂

Grégory Cwicklinski,* Roger Miras, Julien Pérard, Clara Rinaldi, Elisabeth Darrouzet and Christine Cavazza*

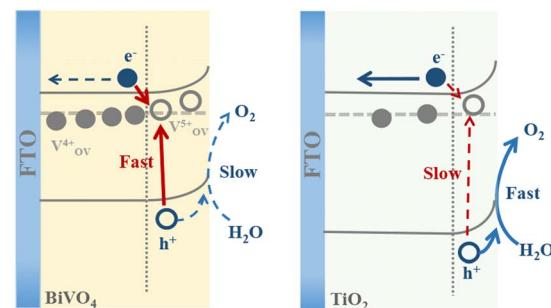


PAPERS

1077

Charge carrier dynamics of surface back electron/hole recombination in BiVO_4 and TiO_2 photoanodes

Wenjun Zhu, Yuling Yuan and Yimeng Ma*



1085

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

