

Sustainable Energy & Fuels

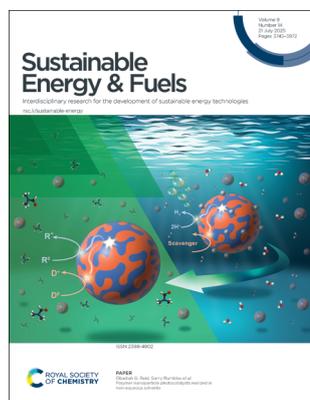
Interdisciplinary research for the development of sustainable energy technologies

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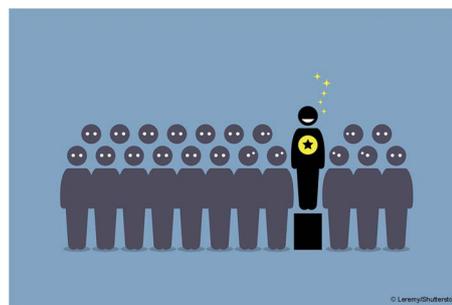
See Obadiah G. Reid, Garry Rumbles *et al.*, pp. 3796–3807.

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EDITORIAL

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Outstanding Reviewers for *Sustainable Energy & Fuels* in 2024

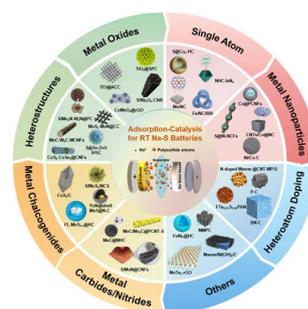


REVIEW

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Integrated adsorption–catalysis design enabling high-performance sodium–sulfur batteries

Xinghao Zhang, Wanjie Gao, Yufan Chen, Yi Peng, Xi Liu, Xiaohu Yang, Xiaosong Xiong, Jie Wang, Yang Liu, Ao Jia, Yinxu Lu, Yuping Wu and Jiarui He*



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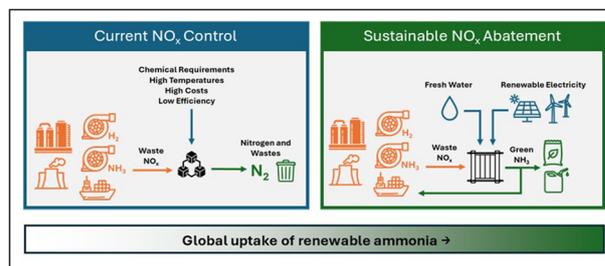
Fundamental questions
Elemental answers

PERSPECTIVE

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Navigating the challenges of global NO_x emissions throughout the energy transition: state of play and outlook

Josh Leverett, William Hadinata Lie, Muhammad Haider Ali Khan, Zhipeng Ma, Rahman Daiyan* and Rose Amal*

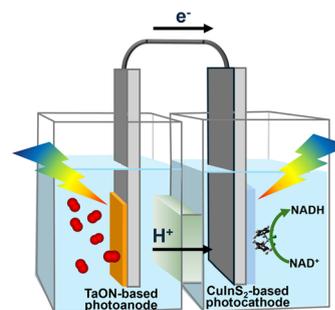


COMMUNICATION

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Unassisted visible-light-driven NADH regeneration based on a dual-photoelectrode system

Koya Kano, Masanobu Higashi* and Yutaka Amao*

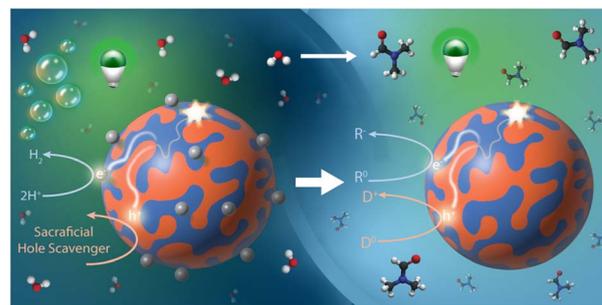


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Polymer nanoparticle photocatalysts realized in non-aqueous solvents

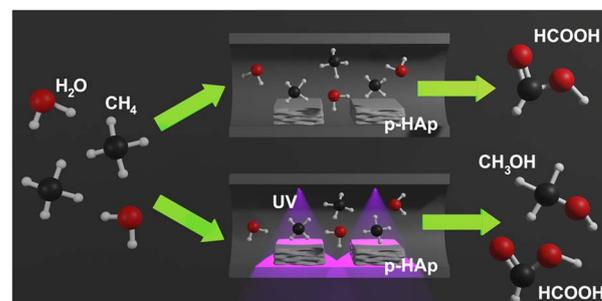
Max M. O'Connor, Steven C. Hayden, Melissa K. Gish, Justin L. Ratkovec, Lily H. Harmon, Yadong Zhang, Stephen Barlow, Seth R. Marder, Obadiah G. Reid* and Garry Rumbles*



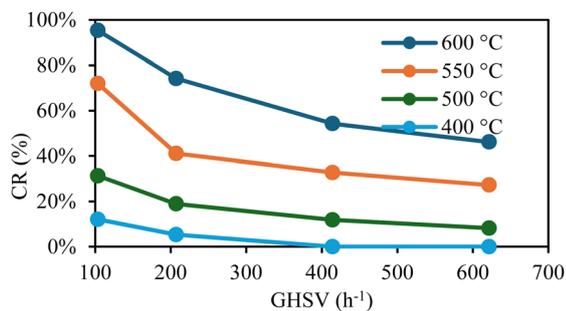
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Sustainable oxidation of methane into formic acid using a polarized bioceramic under mild reaction conditions

Marc Arnau, Jordi Sans,* Pau Turon* and Carlos Alemán*



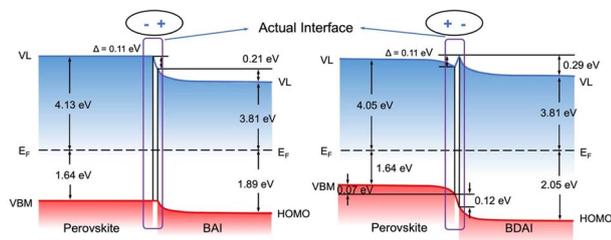
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Experimental study on hydrogen-rich fuel generation *via* ammonia decomposition using a structured catalytic reactor

Payam Shafie,^{*} Marie Mottoul, Alain DeChamplain and Julien Lepine

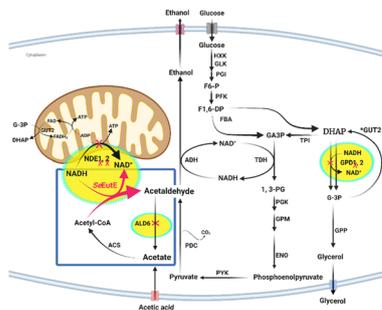
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Dipole orientation-induced interfacial energy level alignment difference in 2D perovskite passivated 3D perovskite by *in situ* investigation

Ruifeng Zheng, Jielei Li, Shengwen Li,^{*} Bingchen He and Shi Chen^{*}

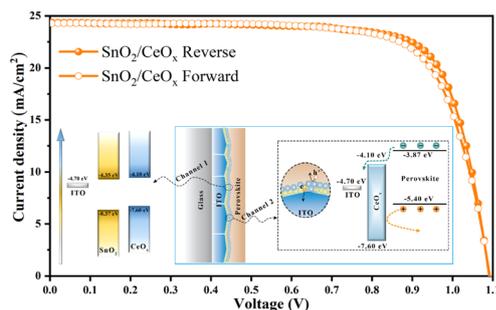
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Engineering a hypoxia-tolerant *Saccharomyces cerevisiae* for rapid ethanol production *via* co-utilization of glucose and acetic acid and redox-enhanced flocculation

Sadat Mohamed Rezk Khattab,^{*} Mohammed Oksh Mohammed Mousa, Takashi Nagata, Takashi Watanabe and Masato Katahira^{*}

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Optimization of a SnO₂-based electron transport layer using cerium oxide for efficient and stable perovskite solar cells

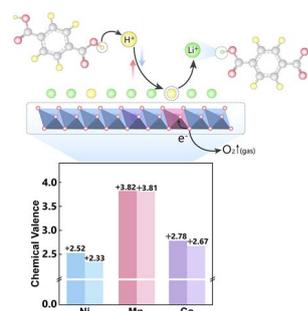
Zhipeng Liu, Zhiwei Gu, Yang Lv, Zhiqin Su, Jian Sun, Linlin Qiu,^{*} and Pingfan Du^{*}



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Ultra-high efficient lithium recovery via terephthalic acid from spent lithium-ion batteries

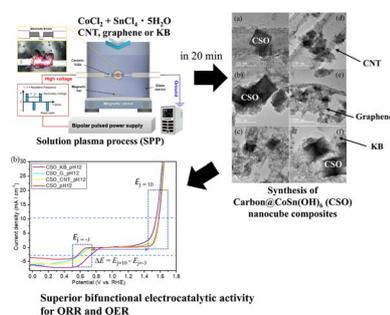
Jiahui Hou, Zexin Wang, Zifei Meng, Jinzhao Fu, Zeyi Yao, Wenting Jin, Xiaotu Ma, Zhenzhen Yang and Yan Wang*



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Single-step solution plasma synthesis of bifunctional CoSn(OH)₆-carbon composite electrocatalysts for oxygen evolution and oxygen reduction reactions

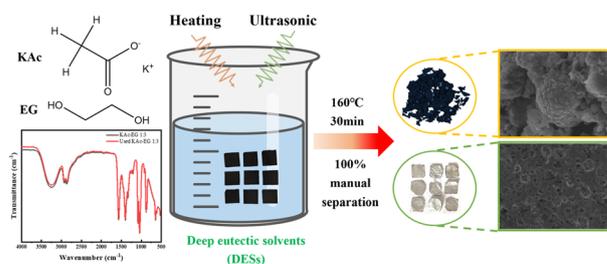
Sangwoo Chae, Akihito Shio, Taketo Imamura, Kouki Yamamoto, Yuna Fujiwara, Gasidit Panomsuwan and Takahiro Ishizaki*



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Characterization of thermal mass transfer in the separation process of electrode materials from spent lithium-ion batteries using deep eutectic solvents

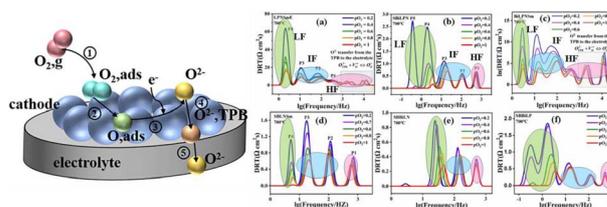
Xiaoxia Wang, Mengmeng Sun, Yu Qiao* and Zhonghao Rao*



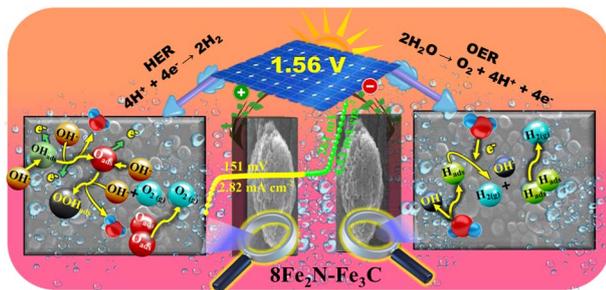
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A-site composition engineering in high-entropy AFeO₃ perovskite SOFC cathodes and unraveling oxygen reduction mechanisms

Zepeng Li,* Yanfeng Ge, Weilin Jia, Mingrun Du, Xueting Yi, Yu Ma, Jingya Wang, Bo Liu, Yuan Li and Huanbin Li



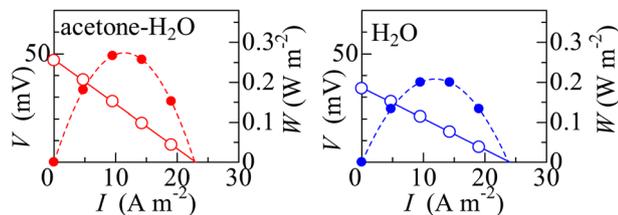
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Exceptional intrinsic bifunctional performance of $\text{Fe}_2\text{N}-\text{Fe}_3\text{C}$ heterostructure and STH efficiency

Mayakrishnan Raj kumar, Dhanasingh Thiruvengadam, Kaliyamoorthy Santhosh kumar, Kuppusamy Rajan, Jayaraman Jayabharathi* and Manoharan Padmavathy

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A liquid thermoelectric converter composed of acetone–water mixed solution with reduced solution resistance

Haruka Yamada, Touya Aiba and Yutaka Moritomo*

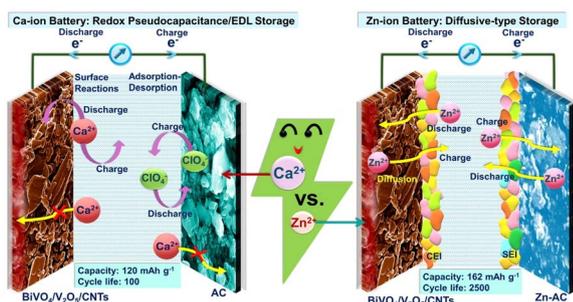
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Design and investigation of a magnetic coupling piezoelectric inertial energy harvesting system for low-power wireless sensors in intercity buses

Zhen Zhao, Xiaohui Zhang, Baifu Zhang,* Haichuan Cui, Xinjun Li and Enyu He

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$\text{BiVO}_4/\text{V}_2\text{O}_5$ heterostructures for durable and highly reversible calcium- and zinc-ion batteries

Danish Wazir, Souvik Naskar, Priya R. Sharmesh, Partha Ghosal and Melepurath Deepa*

