

Sustainable Energy & Fuels

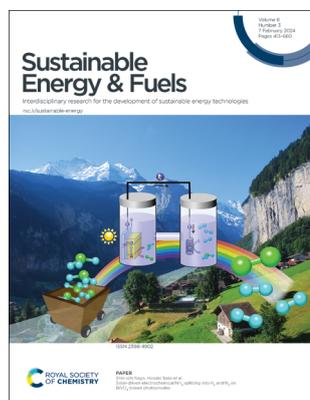
Interdisciplinary research for the development of sustainable energy technologies

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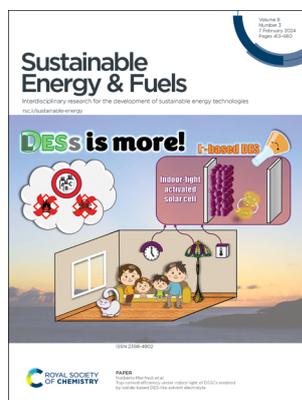
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See Shin-ichi Naya, Hiroaki Tada *et al.*, pp. 496–503. Image reproduced by permission of Shin-ichi Naya from *Sustainable Energy Fuels*, 2024, 8, 496. Photo of U-shaped valley in Lauterbrunnen by BUCCH_astoria via photo-ac.com.



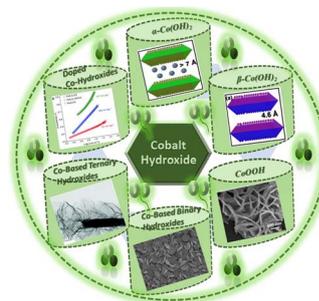
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See Norberto Manfredi *et al.*, pp. 504–515. Image reproduced by permission of Norberto Manfredi from *Sustainable Energy Fuels*, 2024, 8, 504.

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Exploring the potential of cobalt hydroxide and its derivatives as a cost-effective and abundant alternative to noble metal electrocatalysts in oxygen evolution reactions: a review

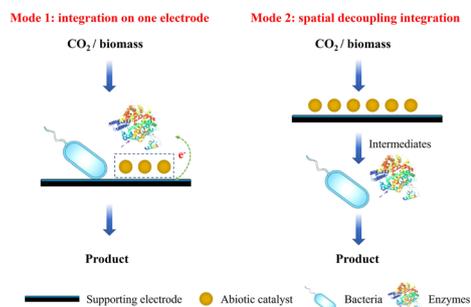
Umair Shamraiz,^{*} Abdul Majeed, Bareera Raza, Noor ul Ain and Amin Badshah



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Integrative electrochemical and biological catalysis for the mild and efficient utilization of renewable electricity and carbon resources

Licheng Liu^{*} and Deepak Pant^{*}



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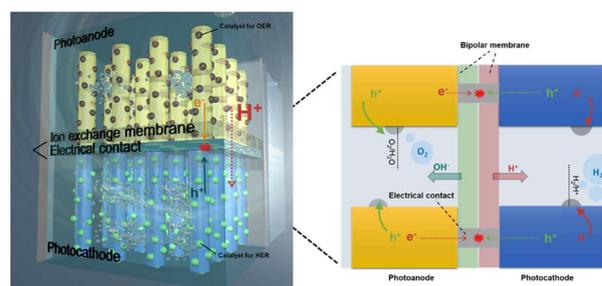
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Designing idealised devices for bias-free solar water splitting

Jaemin Park, Kwang Ho Kim, Dukjoon Kim, Jung Kyu Kim and Wooseok Yang*

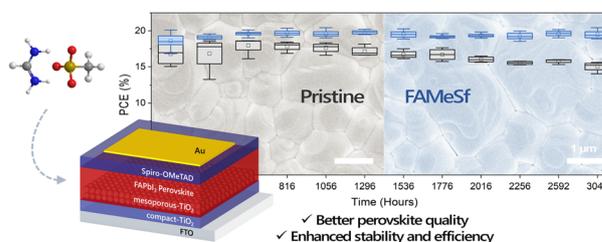


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Enhancing FAPbI₃ perovskite solar cell performance with a methanesulfonate-based additive

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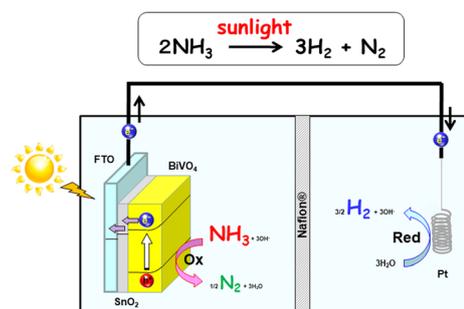


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Solar-driven electrochemical NH₃ splitting into H₂ and N₂ on BiVO₄-based photoanodes

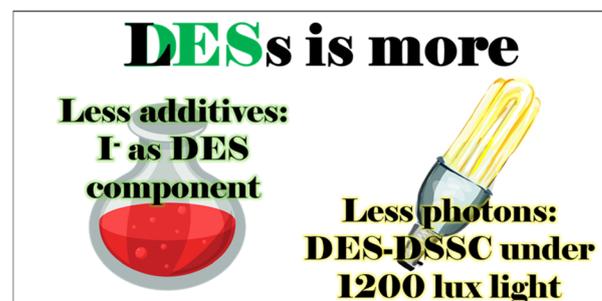
Miwako Teranishi, Shin-ichi Naya* and Hiroaki Tada*



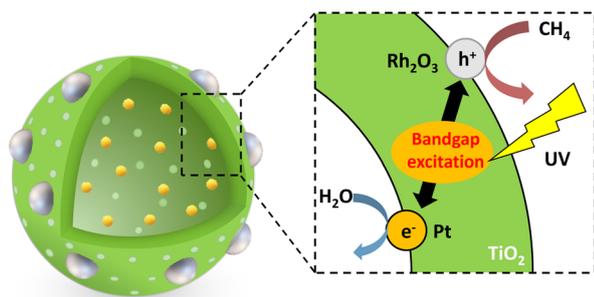
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Top-ranked efficiency under indoor light of DSSCs enabled by iodide-based DES-like solvent electrolyte

Chiara Liliana Boldrini, Andrea Francesca Quivelli, Filippo Maria Perna, Paolo Biagini, Vito Capriati, Alessandro Abbotto and Norberto Manfredi*



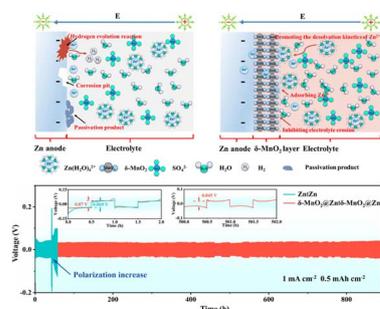
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Steam reforming of methane by titanium oxide photocatalysts with hollow spheres

Akira Yamaguchi,* Tomoki Kujirai, Takeshi Fujita, Hideki Abe and Masahiro Miyauchi*

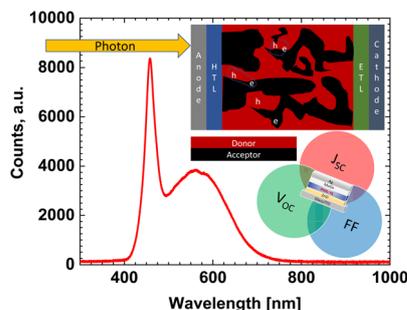
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Ting Li, Bo Zhou, Zhongfu Yan, Anjun Hu,* Mengjiao Liu, Xinyu Liu, Liang Liu,* Miao He, Jiahao Chen and Jianping Long*

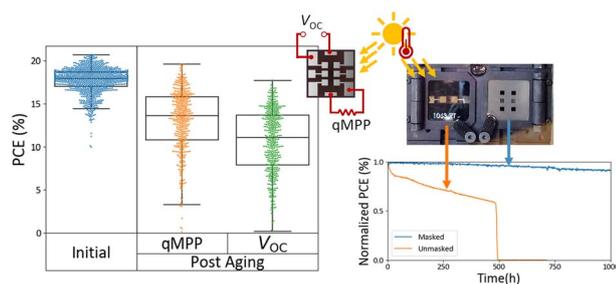
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Aging of quinoxaline-based polymer solar cells under UV-free white light

Shahidul Alam,* Md Moidul Islam, Rico Meitzner, Martin Hager, Ulrich S. Schubert, Frédéric Laquai, Harald Hoppe and Yingping Zou

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Measuring metal halide perovskite single cell degradation consistent with module-based conditions

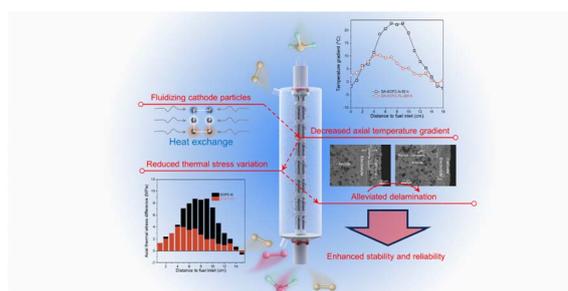
Robert Tirawat,* Amy E. Louks, Mengjin Yang, Severin N. Habisreutinger, Jao van de Lagemaat, Soňa Uličná, Ross A. Kerner, Kai Zhu, Laura T. Schelhas, Axel F. Palmstrom and Joseph J. Berry*



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Temperature gradient reduction in a tubular direct ammonia solid oxide fuel cell by fluidizing the cathode particles

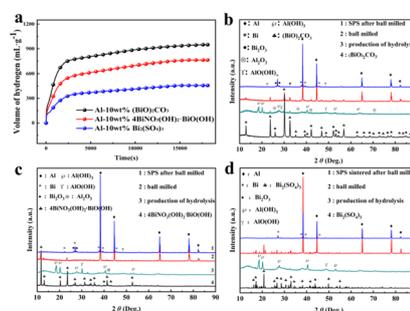
Yu Qiu, Yanxin Yang, Enkang Fu and Rui Xiao*



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Novel porous Al-based composites for improved Al-water reaction performances by spark plasma sintering

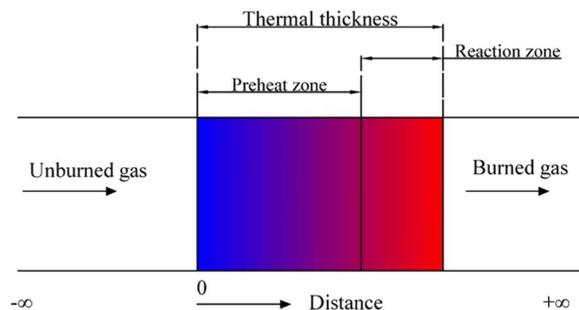
Jinfan Wu, Tao Wang, Fen Xu,* Lixian Sun,* Lumin Liao, Yuan Gao, Yanxun Guan, Hehui Wang, Guorong Zhang, Zhong Cao and Julan Zeng



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Numerical study of the effect of NH₃ addition on CH₄/air combustion characteristics under gas turbine operating conditions

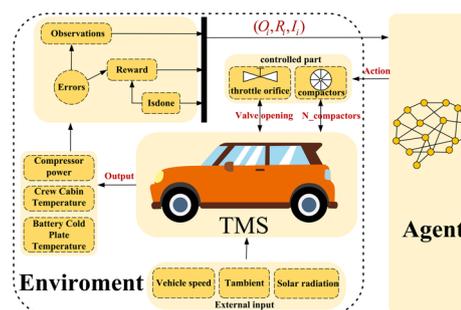
Dianlin Liu, Yanfei Zhang, Qin Li, Mingming Huang,* Zhenxian Liu and Haipeng Zhang



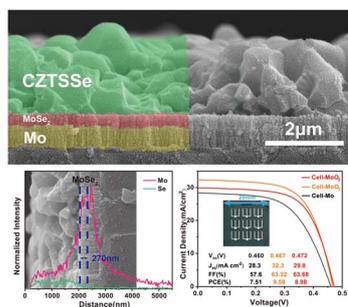
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Reinforcement learning-based control for the thermal management of the battery and occupant compartments of electric vehicles

Yan Zhang, Jianguo Huang, Liange He,* Donggang Zhao and Yu Zhao



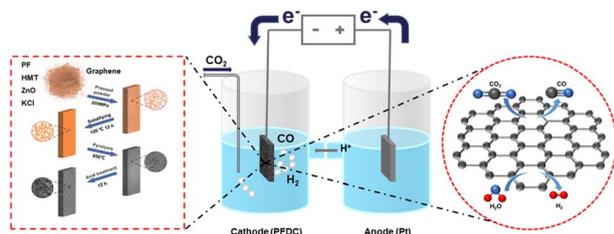
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Differential effects of MoO₃ and MoO₂ sacrificial layers on the *J*-*V* performance of Cu₂ZnSn(S,Se)₄ solar cells

Jinhui Zhang, Chuanhe Ma, Haixuan Gao, Jinchun Jiang and Hailong Wang*

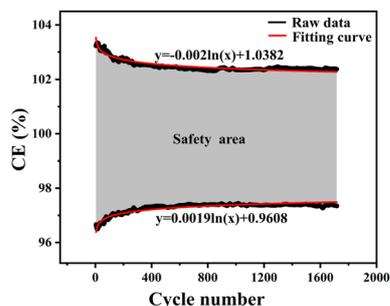
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Effects of pore structures on a phenolic resin-derived self-supported electrode for highly efficient electroreduction of CO₂ to syngas

Haowen Chen, Junwei Zhang, Kang Wang* and Xitao Wang*

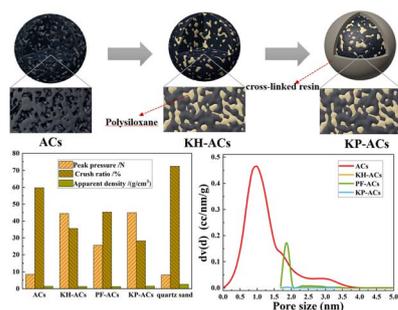
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Lifespan prediction of Li-ion batteries in electrical vehicles by applying coulombic efficiency: from anode material to battery cell to vehicle application

Xianjun Liu, Yanfei Li, Xiaohua Jiang and Kw Xu*

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Constructing low-cost and high-strength ultra-low-density proppants based on the modification of activated carbon framework with *in situ* hydrolyzed silane

Zhen Zeng, Shiqiang Wang, Ermei Liu, Wei Qin, Yang Zhou, Zhenyong Li, Yu Song, Min Xu, Fuli Bian* and Xianyan Ren*

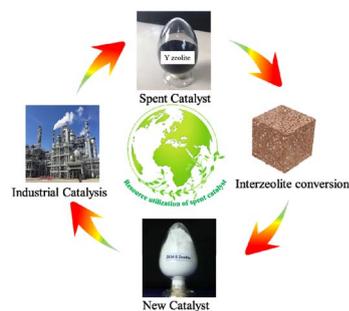


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Synthesis of hierarchical MFI zeolite by interzeolite conversion of spent FAU zeolite for the methanol-to-olefins reaction

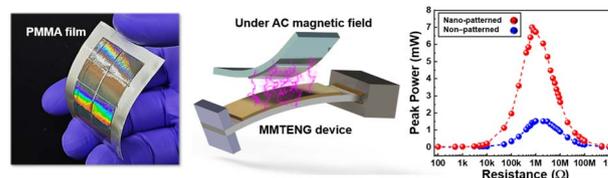
Yan Sun, Chao Yang, Zhenhao Wen, Zhenbao Zhang, Pifeng Wei, Xiaobo Wang and Qiang Li*



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A nanoscale surface engineered magneto-mechano-triboelectric nanogenerator enabled by reliable pattern replication for self-powered IoT devices

Srinivas Pattipaka, Tae Wan Park, Young Min Bae, Yujin Na, Kyeongwoon Chung, Kwi-Il Park, Jungho Ryu, Woon Ik Park* and Geon-Tae Hwang*



CORRECTION

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Correction: Rational design and recent advancements of additives engineering in ASnI_3 tin-based perovskite solar cells: insights from experiments and computational

Maria Ulfa,* Fitri Aulia Permatasari, Yahdi Bin Rus, Novrita Idayanti and Ferry Iskandar

