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See Tsun-Kong Sham, Xueliang Sun *et al.*, pp. 4521–4554. Image reproduced by permission of Weihan Li and Xueliang Sun from *Energy Environ. Sci.*, 2025, 18, 4521.

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Enhancing green mobility through vehicle-to-grid technology: potential, technological barriers, and policy implications

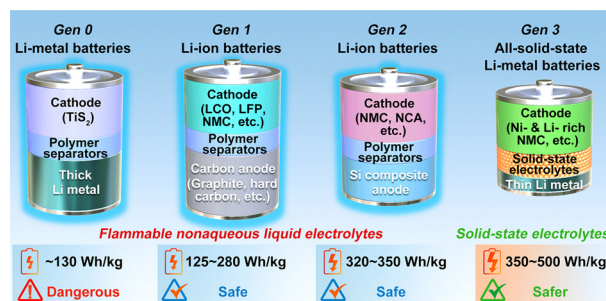
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Weihan Li, Minsi Li, Haoqi Ren, Jung Tae Kim, Ruying Li, Tsun-Kong Sham* and Xueliang Sun*



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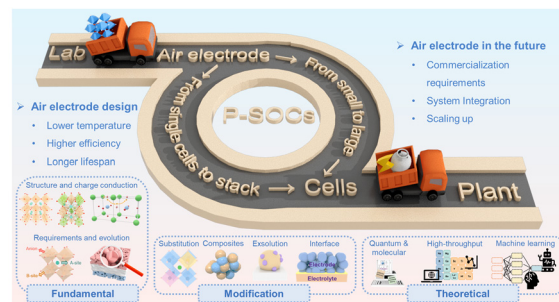
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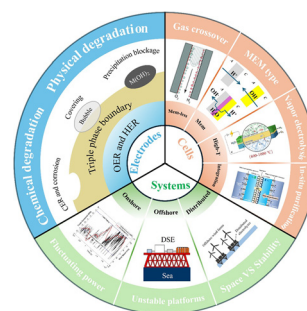
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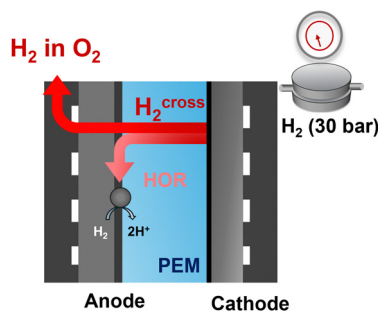


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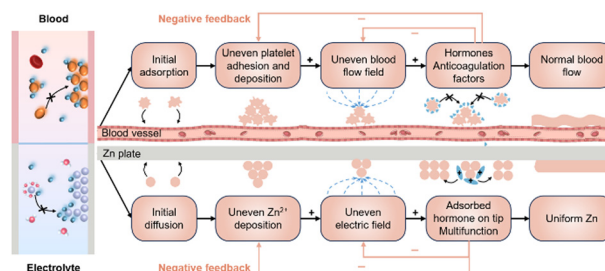
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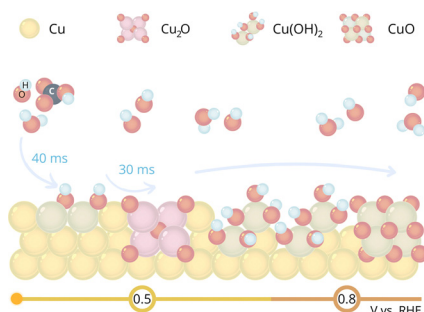
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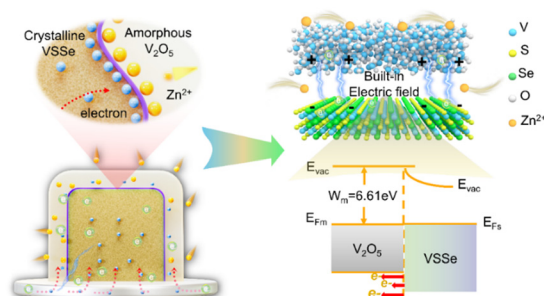


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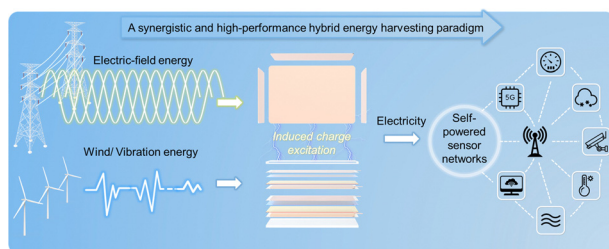
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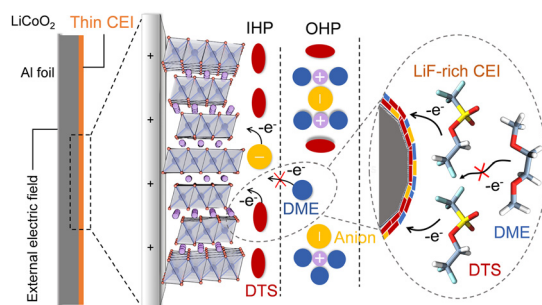
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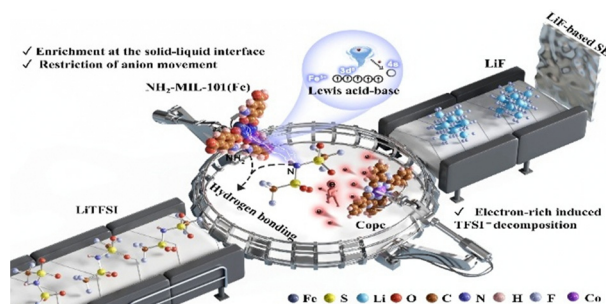


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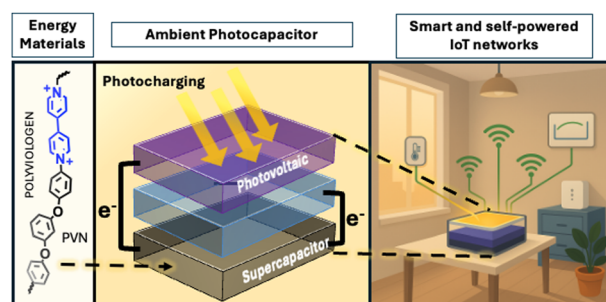
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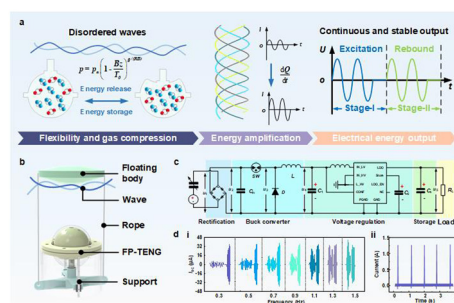
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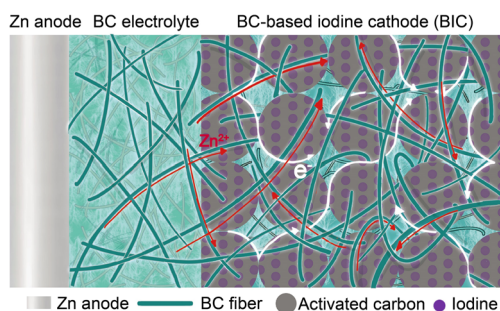
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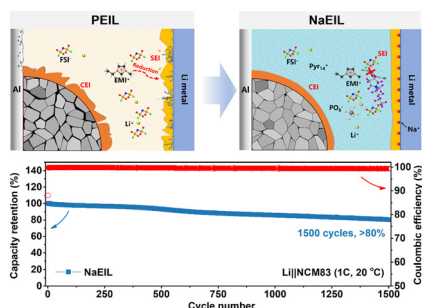
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Xin Yang, Minghao Xie, Zhijie Yan, Hang Ruan, Chunpeng Yang,* Zaiping Guo* and Zi-Jian Zheng*



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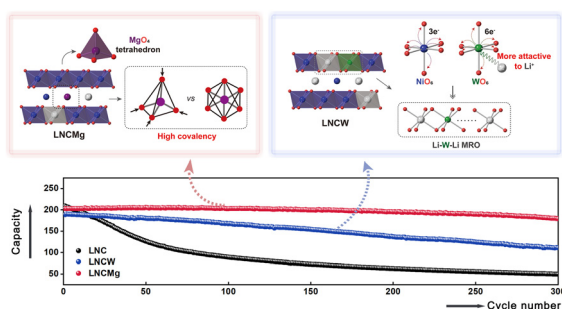
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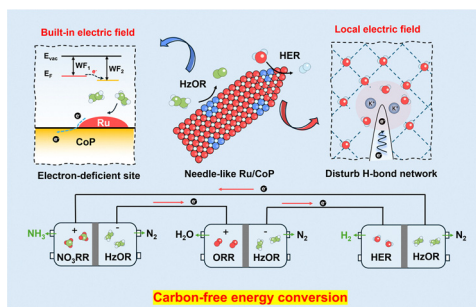
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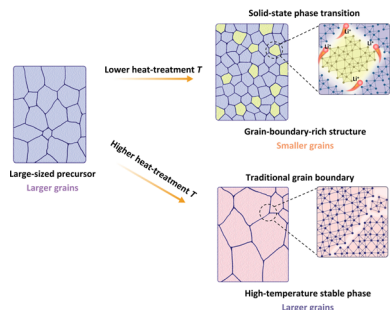
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Fanteng Meng, Yutong Li,* Shitong Wang, Dong Luo, Xinghao Zhang, Manfred Wagner, Zilong Tang, Yanpeng Li, Debin Kong* and Linjie Zhi*

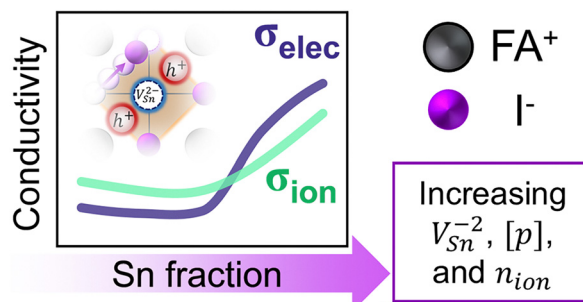


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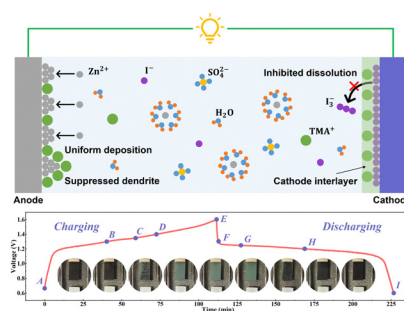
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A dynamic cathode interlayer for ultralow self-discharge and high iodide utilization in zinc–iodine batteries

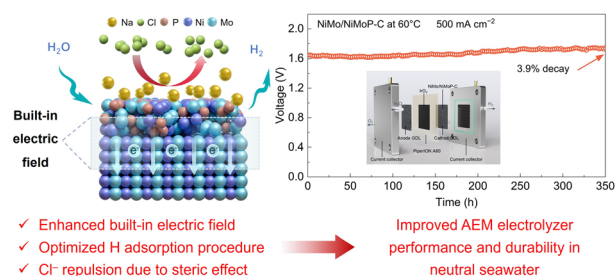
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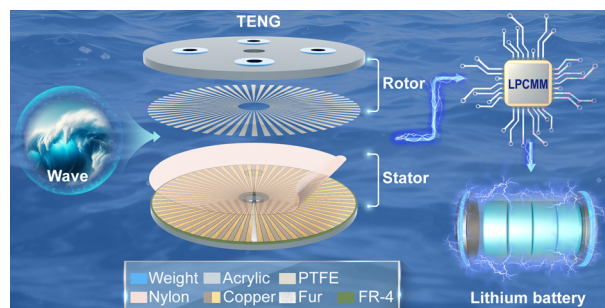
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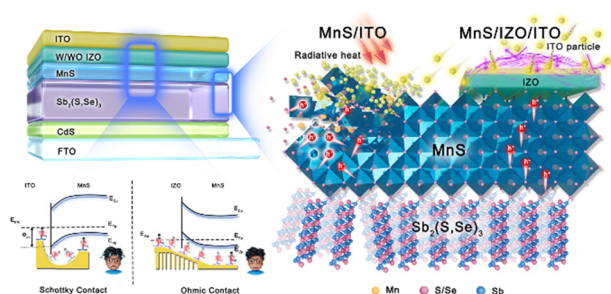
Advanced energy harvesting from low-frequency ocean waves for lithium-ion battery applications

Yingjin Luo, Wentao Lei, Pengfei Chen, Tao Jiang, Andeng Liu, Meidan Ye, Zijie Xu, Zhong Lin Wang* and Wenxi Guo*



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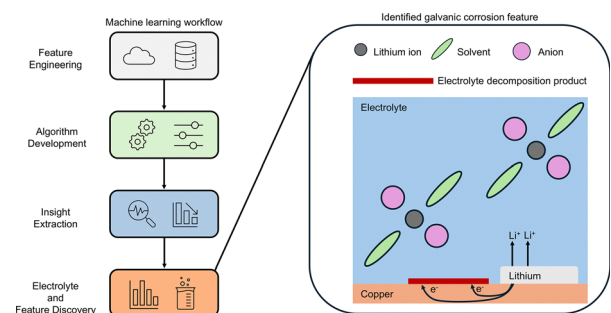
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Amorphous indium–zinc oxide layer with transport and protective dual-function for high-efficiency semitransparent and tandem $\text{Sb}_2(\text{S,Se})_3$ solar cells

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Lei Huang, Zhiyuan Cai, Bo Che, Qi Zhao, Shuwei Sheng,
Hong Wang, Changfei Zhu and Tao Chen*

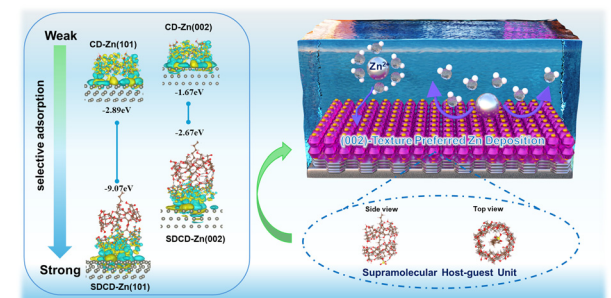
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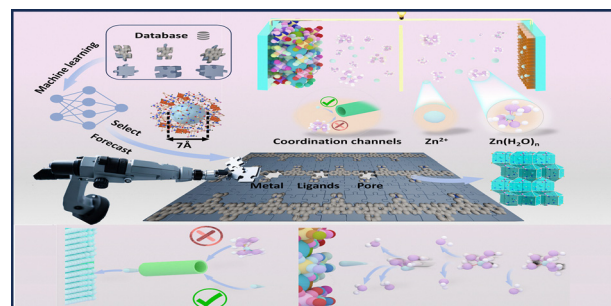
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Synergistically enhancing the selective adsorption for crystal planes to regulate the (002)-texture preferred Zn deposition via supramolecular host–guest units

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Ying Ge, Long Zhang,* Yanglong Hou* and Hongbin Lu*

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Machine learning-assisted benign transformation of three zinc states in zinc ion batteries

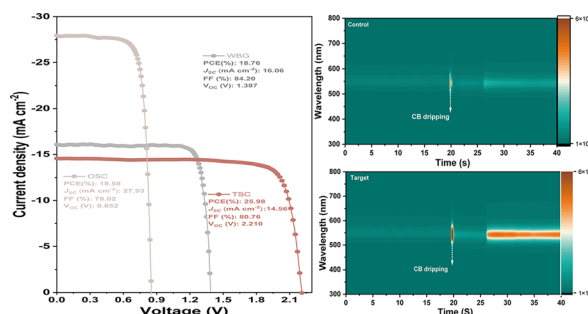
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Optimization of crystallization dynamics in wide-bandgap bromine–iodine perovskite films for high-performance perovskite–organic tandem solar cells

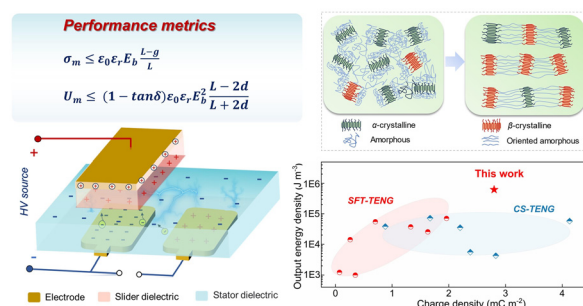
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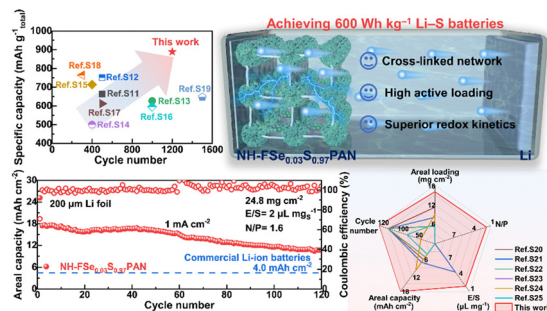
Ru Guo, Hang Luo, Shaoshuai He, Xin Xia, Tingting Hou, Haoyu Wang, Chaojie Chen, Dou Zhang and Yunlong Zi*



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A cross-linked nanoflower network and Se-doping enabling sulfur-rich SPAN towards lithium–sulfur batteries beyond 600 W h kg⁻¹

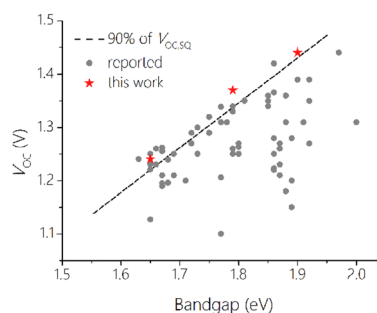
Qiang Wu, Yuanke Wu, Hui Yan, Wei Zhong, Mingsheng Qin, Haolin Zhu, Shijie Cheng and Jia Xie*



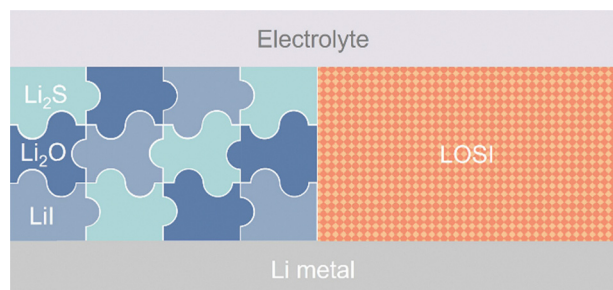
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A universal surface fixed charge reconstruction strategy to minimize contact loss in wide bandgap perovskite photovoltaics

Yaxiong Guo, Fang Yao, Yunchen Zhang, Guoyi Chen, Shengjie Du, Zixi Yu, Hai Zhou,* Weijun Ke,* Chun Li* and Guojia Fang*



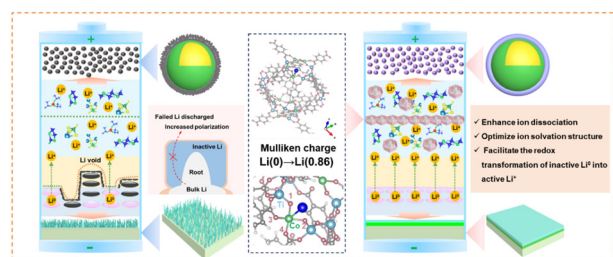
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Thermoresponsive solid electrolyte interphase enables safe lithium–sulfur batteries with high energy density

Feng Jiang, Yun-Fei Du, Jia-Xin Guo, Nai-Lu Shen, Zi-Xian Chen, Mei Geng, Dongsheng Ren, Bo-Quan Li, Xue-Qiang Zhang, Tao Wang, Yuan Ma, Yiren Zhong, Jiarui He, Zhi Zhu, Faxing Wang, Jia-Qi Huang, Xin-Bing Cheng* and Yuping Wu

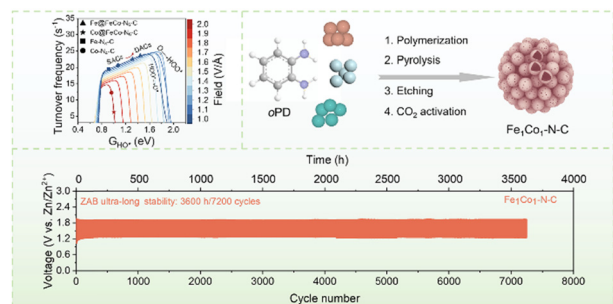
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Tuning electronic structure of MOF-based solid-state electrolytes to activate dormant lithium and facilitate ion transport kinetics towards lithium metal batteries

Qing Liu, Qi An, Kun Zeng, Mou Yang, Haiye Zhu, Xilin Liang, Guiquan Zhao, Mengjiao Sun, Yunchun Zha, Li Yang, Lingyan Duan, Genfu Zhao, Yongjiang Sun and Hong Guo*

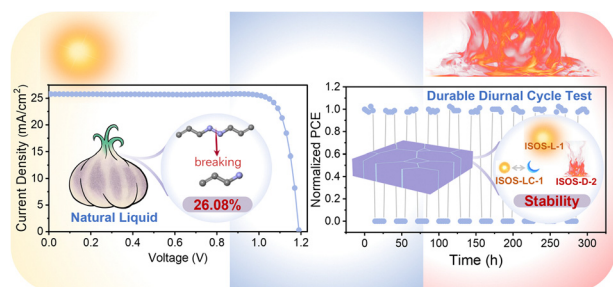
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A pH-dependent microkinetic modeling guided synthesis of porous dual-atom catalysts for efficient oxygen reduction in Zn–air batteries

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Sustainable protection of natural liquid enables ultra-stable inverted perovskite solar cells via allylic disulfide rearrangement

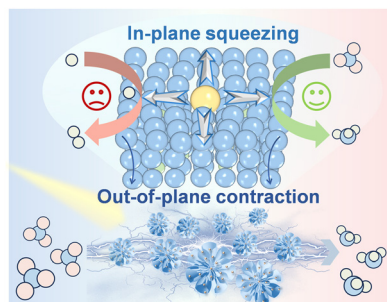
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Dual strain regulated RhNiAu trimetallic for efficient plasmonic-promoted acidic nitrate electroreduction

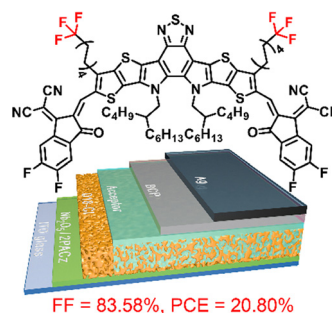
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Dielectric constant engineering of nonfullerene acceptors enables a record fill factor of 83.58% and a high efficiency of 20.80% in organic solar cells

Junwei Dong, Yinfeng Li, Chentong Liao, Xiaopeng Xu,*
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Ultrafast synthesis of an efficient urea oxidation electrocatalyst for urea-assisted fast-charging Zn–air batteries and water splitting

Tongtong Li, Zhiyang Zheng, Zherui Chen,
Mengtian Zhang, Zhexuan Liu, Huang Chen, Xiao Xiao,
Shaogang Wang, Haotian Qu, Qingjin Fu, Le Liu,
Ming Zhou, Boran Wang* and Guangmin Zhou*

