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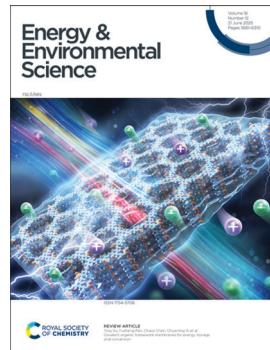
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See Ifan E. L. Stephens et al., pp. 5897–5901.
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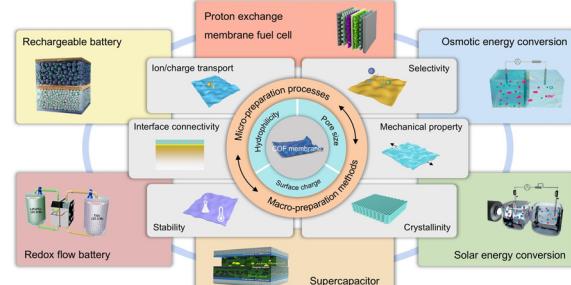
See Ting Xu, Fusheng Pan, Chaoji Chen, Chuanling Si et al., pp. 5675–5739.
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REVIEWS

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Covalent organic framework membranes for energy storage and conversion

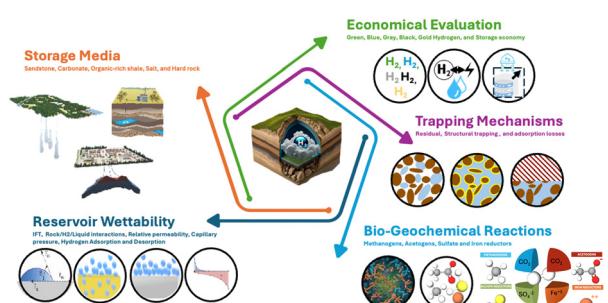
Liyu Zhu, Yu Cao, Ting Xu,* Hongbin Yang, Luying Wang, Lin Dai, Fusheng Pan,* Chaoji Chen* and Chuanling Si*



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Recent progress in underground hydrogen storage

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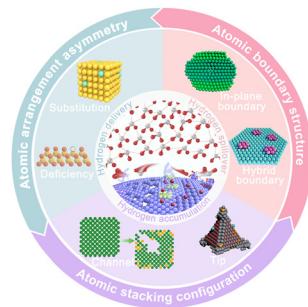


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Atomic-level insights for engineering interfacial hydrogen microenvironments of metal-based catalysts for alkaline hydrogen electrocatalysis

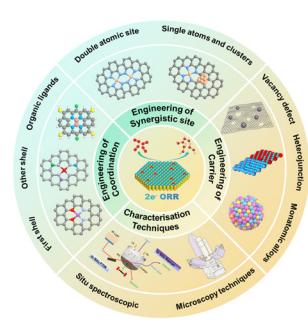
Kunjie Wang, Xingyu Cui, Jingxuan Zhao, Qing Wang and Xu Zhao*



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Atomically dispersed catalysts: for the efficient and stable industrial electrosynthesis of H₂O₂

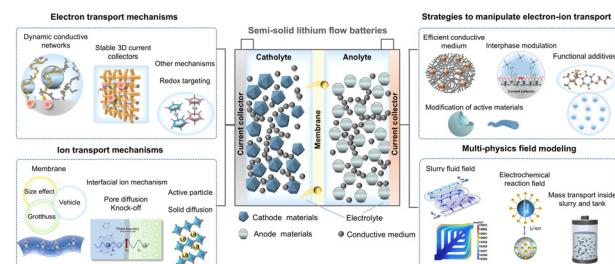
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Multiscale coupled electron-ion transport in semi-solid lithium flow batteries

Shanshan Pan, Wenhao Fang, Jie Yan, Suojiang Zhang* and Haitao Zhang*

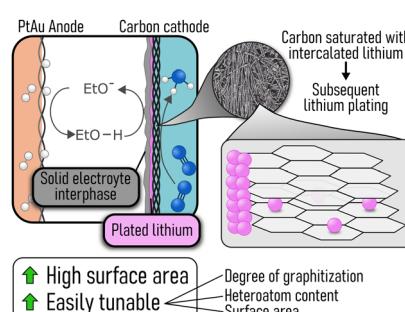


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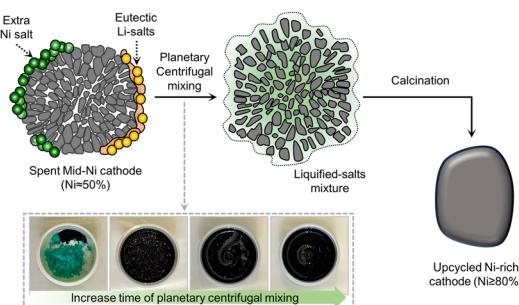
A carbon cathode for lithium mediated electrochemical ammonia synthesis

Craig Burdis, Romain Tort, Anna Winiwarter, Johannes Rietbrock, Jesús Barrio, Maria Magdalena Titirici and Ifan E. L. Stephens*



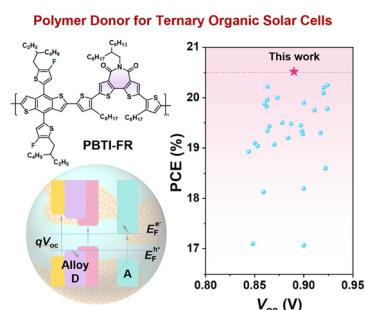
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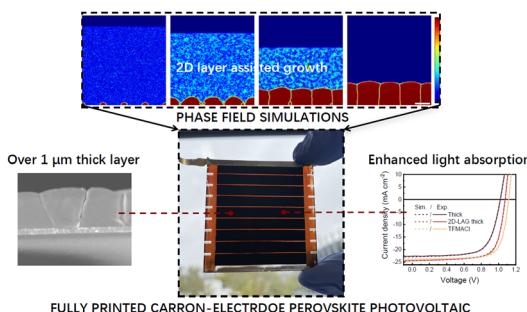
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**A bithiophene imide-based polymer donor for alloy-like ternary organic solar cells with over 20.5% efficiency and enhanced stability**

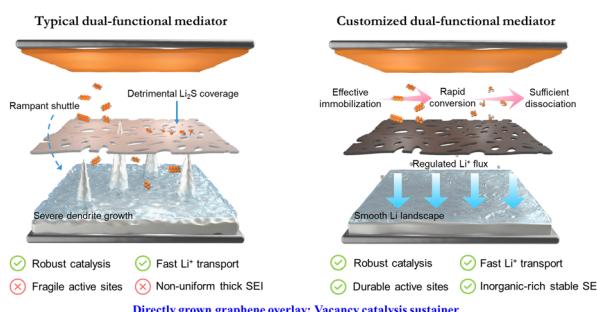
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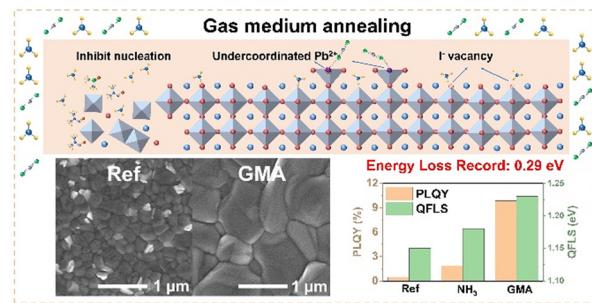
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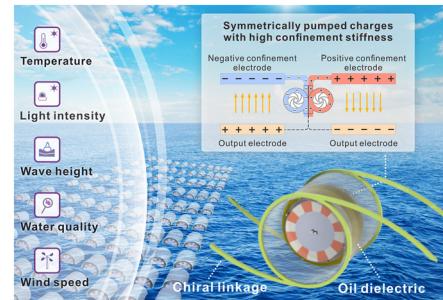


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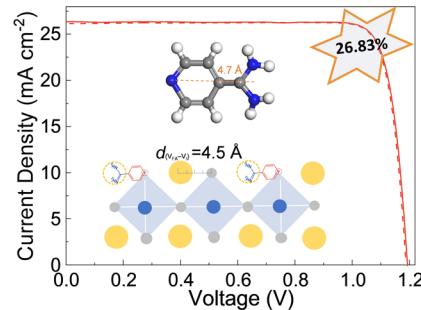
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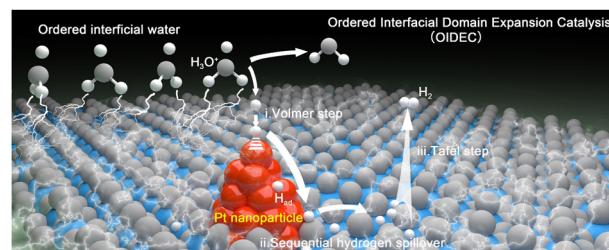
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Symmetrically pumped charges with high confinement stiffness for boosted performance in wave energy harvestingHuijing Qiu, Weizhi Song, Zichao Deng,
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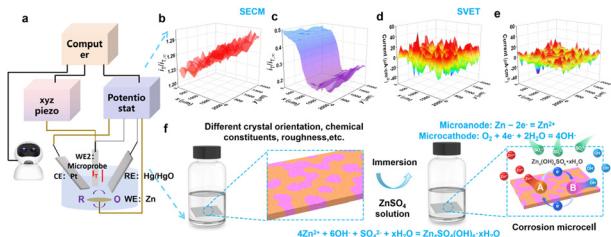
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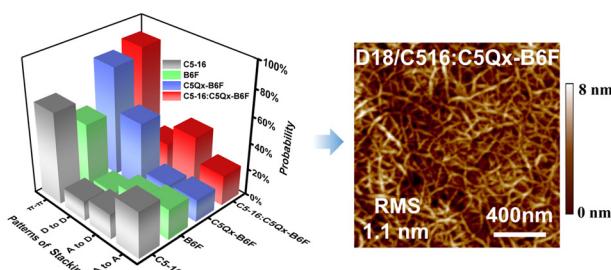
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Insight into the corrosion microcell and passivation mechanisms of a Zn anode for aqueous zinc-ion batteries

Ruijia Liu, Feng Hong, Qiqi Dai, Yupeng Xing, Hongfei Li, Sanlue Hu, Bo Tang, Cuiping Han* and Ding Nan*

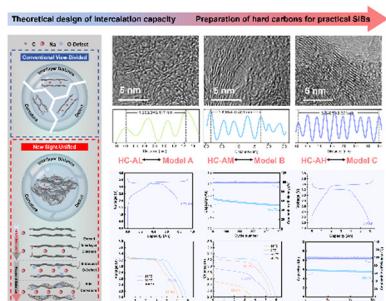
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Extension of the conjugated framework of non-fullerene electron acceptors toward highly efficient organic photovoltaics

Yuandong Sun, Liang Wang, Dawei Gao, Chen Chen, Zirui Gan, Jingchao Cheng, Jing Zhou, Dan Liu, Wei Li* and Tao Wang

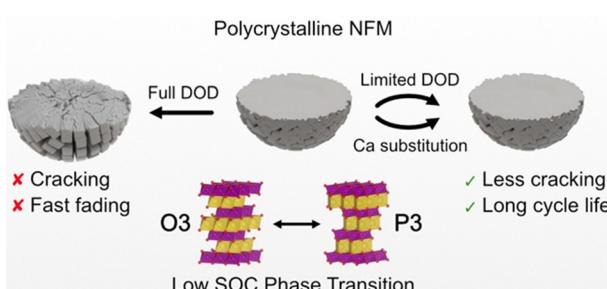
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Unraveling the structure–performance relationship in hard carbon for sodium-ion battery by coupling key structural parameters

Chun Wu, Yunrui Yang, Yifan Li, Xiangxi He, Yinghao Zhang, Wenjie Huang, Qinghang Chen, Xiaohao Liu, Shuangqiang Chen, Qinfen Gu, Lin Li, Sean C. Smith, Xin Tan,* Yan Yu,* Xingqiao Wu* and Shulei Chou*

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Navigating low state of charge phase transitions in layered cathodes for long-life sodium-ion batteries

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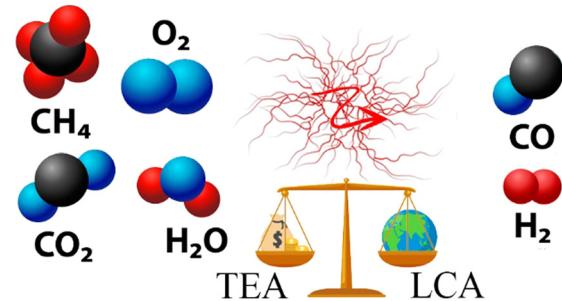


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Techno-economic and life-cycle assessment for syngas production using sustainable plasma-assisted methane reforming technologies

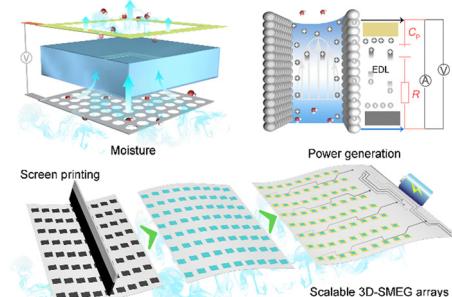
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Achieving persistent and ultra-high voltage output through an arid-adapted plant-inspired high-performance moisture-electric generator

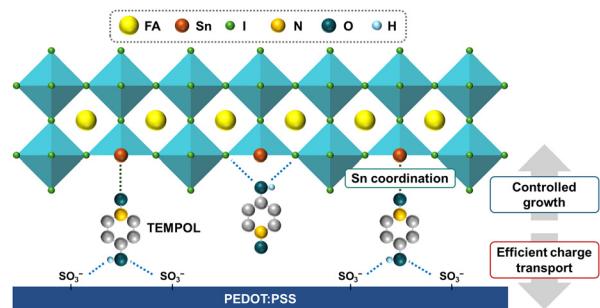
Yu Chen, Chengwei Ye, Jiajun He, Rui Guo, Liangti Qu* and Shaochun Tang*



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Radical scavenger-driven oxidation prevention and structural stabilization for efficient and stable tin-based perovskite solar cells

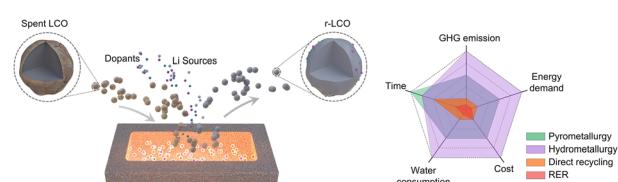
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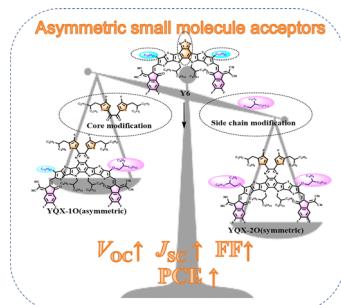
Rapid electrothermal rejuvenation of spent lithium cobalt oxide cathode

Yi Cheng,* Jinhang Chen, Weiyin Chen, Qiming Liu, Obinna E. Onah, Zicheng Wang, Gang Wu, Tianyou Xie, Lucas Eddy, Boris I. Yakobson, Ju Li,* Yufeng Zhao* and James M. Tour*



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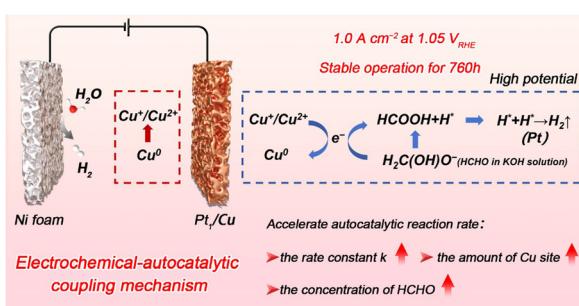
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Asymmetric non-fullerene acceptors with balanced crystallization kinetics enabling a trade-off between charge generation and recombination in ternary organic solar cells

Xiaoqi Yu, Jintao Zhu, Lin Xie,* Haotian Hu, Tongqiang Liu, Pengfei Ding, Xueliang Yu, Jinfeng Ge, Chengcheng Han, Wei Song* and Ziyi Ge*

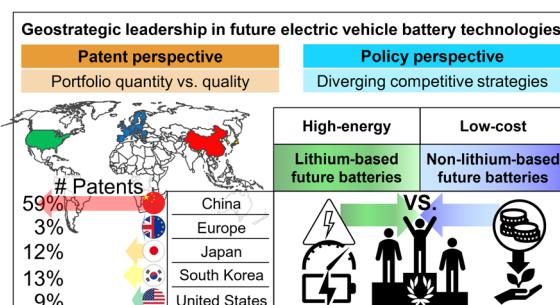
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Revealing the electrochemical-autocatalytic coupling mechanism of Cu-based catalysts for high-potential formaldehyde oxidation

Jia Song, Difei Xiao, Jiari He, Caiyun Zhang, Qianqian Zhang, Zeyan Wang, Yuanyuan Liu, Zhaoke Zheng, Hefeng Cheng, Yaqiang Wu, Baibiao Huang and Peng Wang*

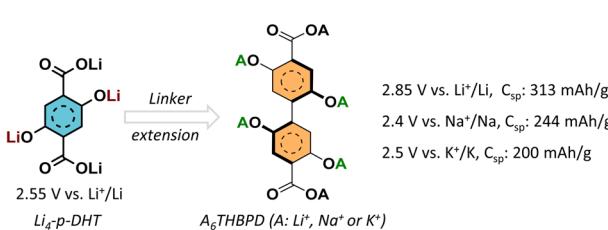
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The geostrategic race for leadership in future electric vehicle battery technologies

André Hemmeler,* Frank Tietze, Simon Lux, Jens Leker, Lars Jahnke and Stephan von Delft

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A hexaanionic carboxyphenolate framework for high energy alkali cation storage

Vasudeva Rao Bakuru, Petru Apostol, Darsi Rambabu, Shubhadeep Pal, Xiaodong Lin, Robert Markowski, Tom Goossens, Da Tie, Andrii Kachmar, Yan Zhang, Géraldine Chanteux and Alexandru Vlad*

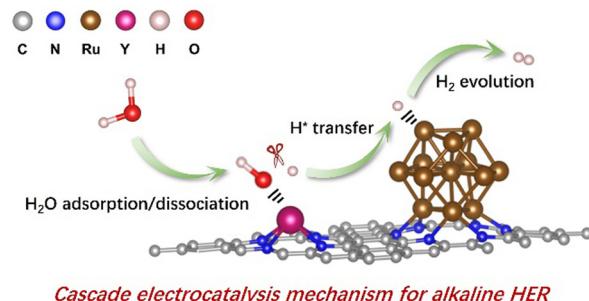


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Cascade electrocatalysis via integration of ruthenium clusters and yttrium single atoms for a boosted alkaline hydrogen evolution reaction

Haotian Zhang, Haoran Guo,* Fuhui Zhang, Jinyang Zhang, Yizhuo Cheng, Yanqing Ma, Lei Ma and Limin Qi*

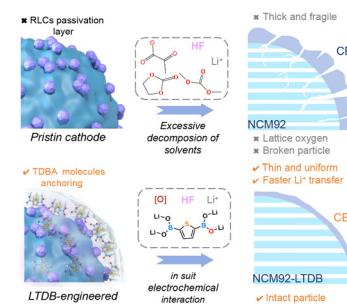


Cascade electrocatalysis mechanism for alkaline HER

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Molecular engineering of residual lithium compounds for stable LiNi_{0.92}Co_{0.05}Mn_{0.03}O₂ cathodes

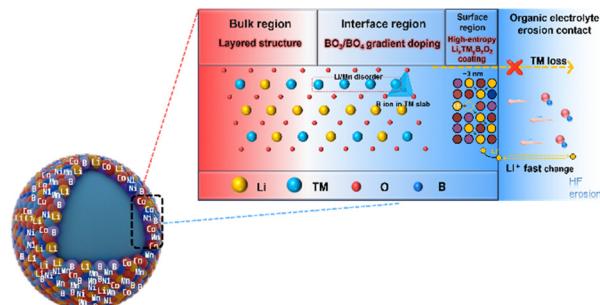
Weihong Jiang, Xianshu Wang,* Xuerui Yang, Yun Zhao, Jun Yao, Xiaoping Yang, Wei Luo, Liang Luo, Jianguo Duan,* Peng Dong, Yingjie Zhang, Baohua Li* and Ding Wang*



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A surface-to-interface boronation engineering strategy stabilizing the O/Mn redox chemistry of lithium-rich manganese based oxides towards high energy-density cathodes

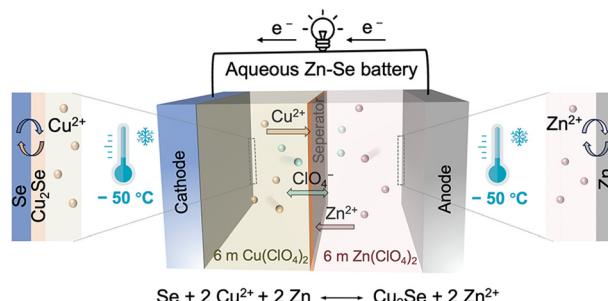
Mingzhe Yang, Tongle Chen, Gongrui Wang,* Xiaofeng Li, Yangyang Liu, Xuanxuan Ren, Ying Zhang, Lu Wu, Li Song, Juncuai Sun* and Zhong-Shuai Wu*



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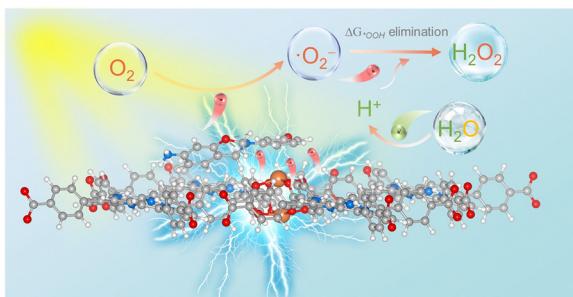
A low-temperature aqueous Se-based battery with rapid reaction kinetics and unprecedented energy density

Guoqiang Liu, Linyu Hu, Ying Liu,* Maowen Xu, Jiajun Guo, Haichuan Zhou, Guoliang Ma, He Lin, Zhenhuang Su, Chang Liu, Jiangqi Zhao, Chunlong Dai* and Zifeng Lin*



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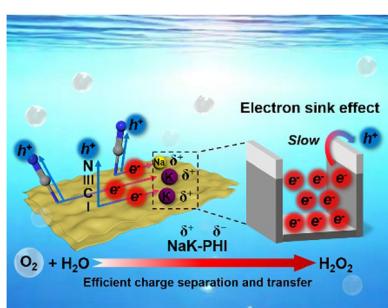
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Enhanced redox kinetics for hydrogen peroxide photosynthesis at high-concentration by encapsulating porphyrin metal-organic frameworks with phenolic resin

Houwei He, Zhongliao Wang, Jinfeng Zhang, Shavkat Mamatkulov, Olim Ruzimuradov, Kai Dai,* Jingxiang Low* and Yue Li*

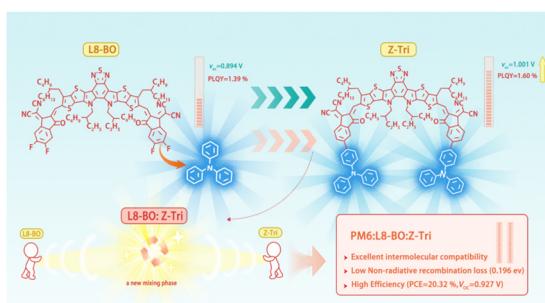
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Sodium/potassium poly(heptazine imide) with an electron sink effect for hydrogen peroxide photosynthesis

Xiao Fang, Bonan Li, Jiao Huang, Chunlian Hu, Xu Yang, Pengfei Feng, Xiaoyu Dong, Junhao Wu, Yuanyuan Li and Yong Ding*

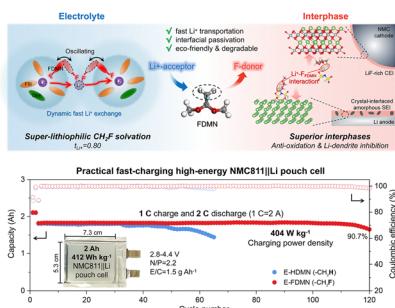
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Reducing energy loss by developing luminescent triphenylamine functionalized electron acceptor for high performance organic solar cells

Yue Chen, Xiaopeng Duan, Junjie Zhang, Zhongwei Ge, Haisheng Ma, Xiaobo Sun,* Huotian Zhang,* Jiaxin Gao, Xuelin Wang, Xunchang Wang, Zheng Tang, Renqiang Yang, Feng Gao and Yanming Sun*

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Oscillating lithium ion-acceptor fluorine-donor electrolytes for practical fast-charging high-energy lithium metal pouch cells

Digen Ruan, Yanru Wang, Jiasen Guo, Zhuangzhuang Cui, Qingshun Nian, Zhihao Ma, Dazhuang Wang, Jiajia Fan, Jun Ma, Bingqing Xiong, Qi Dong, Ruiguo Cao, Shuhong Jiao and Xiaodi Ren*

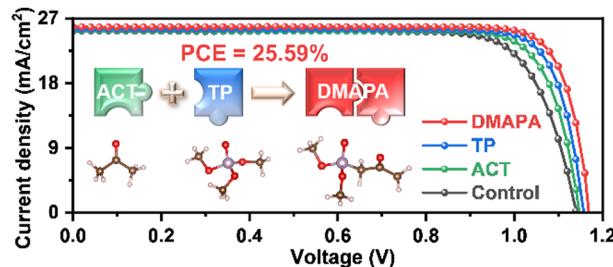


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Molecular integration of Lewis bases for efficient and stable inverted perovskite solar cells

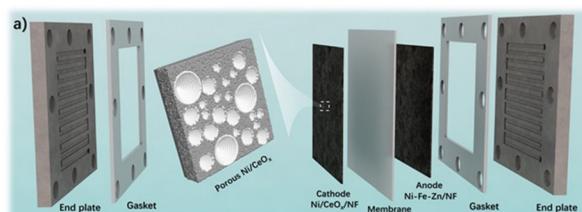
Yinhua Lv, Chi Yang,* Zhenhuang Su, Tianwei He, Ruohao Wang, Ruihao Chen,* Xingyu Gao* and Wen-Hua Zhang*



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Efficient hydrogen evolution at Ni/CeO_x interfaces in anion-exchange membrane water electrolyzers

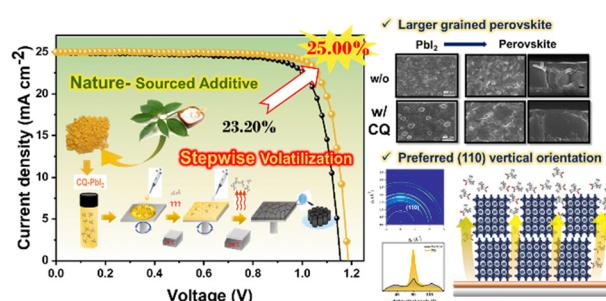
Ibrahem O. Baibars, Haisen Huang, Yang Xiao, Shuhao Wang, Yan Nie, Chen Jia, Kamran Dastafkan and Chuan Zhao*



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Stepwise volatilization induced by nature-sourced volatile solid additives improving the efficiency and stability of perovskite solar cells

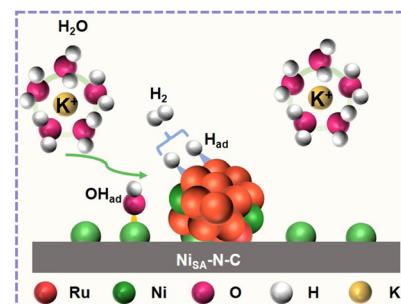
Jeewon Park, Seoyoung Kim, Wonjun Kim, Zhe Sun, Byongkyu Lee and Changduk Yang*



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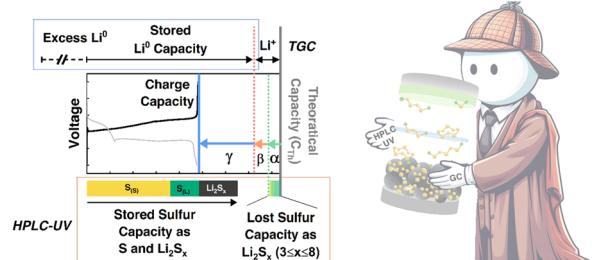
Synergy of Ni single atom and RuNi alloy nanocluster enables boosted hydrogen evolution at industrial current densities

Guanghui Xu, Jinsheng Li, Youze Zeng, Zhaoping Shi, Wei Qi, Kai Li, Meiling Xiao,* Changpeng Liu, Wei Xing* and Jianbing Zhu*



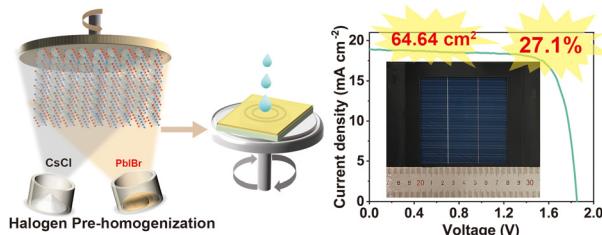
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HUGS: Diagnosis Toolkit for Li-S batteries**Quantitative insights for diagnosing performance bottlenecks in lithium–sulfur batteries**

Saurabh Parab, Jonathan Lee, Matthew Miyagishima, Qiushi Miao, Bhargav Bhamwala, Alex Liu, Louis Ah, Bhagath Sreenarayanan, Kun Ryu, Mingqian Li, Neal Arakawa, Robert Schmidt, Mei Cai, Fang Dai, Ping Liu, Shen Wang* and Ying Shirley Meng*

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**Halogen anion pre-homogenization of sequentially deposited wide bandgap perovskites for commercial textured perovskite/silicon tandem solar cells**

Biao Shi, Pengfei Liu, Zetong Sunli, Wei Han, Cong Sun, Ying Liu, Yuan Luo, Jin Si, Pengcheng Du, Fu Zhang, Miao Yang, Yongcai He,* Bo He, Dekun Zhang, Xiaona Du, Xixiang Xu, Rui Xia, Xueling Zhang, Yifeng Chen, Jifan Gao,* Ying Zhao and Xiaodan Zhang*

CORRECTION

6307

Correction: CO residence time modulates multi-carbon formation rates in a zero-gap Cu based CO₂ electrolyzer

Siddhartha Subramanian,* Jesse Kok, Pratik Ghokal, Asvin Sajeev Kumar, Hugo-Pieter Iglesias van Montfort, Ruud Kortlever, Atsushi Urakawa, Bernard Dam and Thomas Burdyny*