

Energy & Environmental Science

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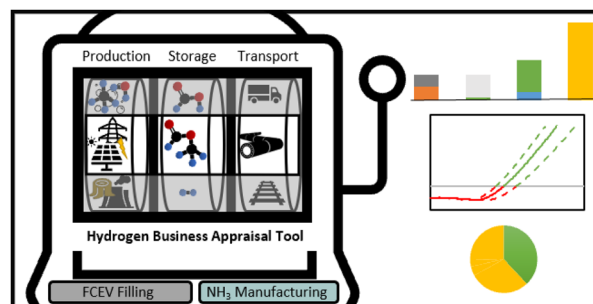
See Chang Kook Hong
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2024, 17, 1046.

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Nurturing the blossoming hydrogen economy using HBAT: modelling every link in the H₂ supply chain

Nicolas Alfonso Vargas,* Moon Jung Kim,
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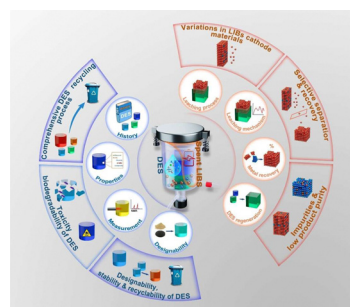


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Jingxiu Wang, Yanqiu Lyu, Rong Zeng, Shilin Zhang,
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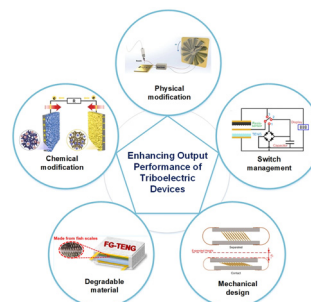


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Progress in techniques for improving the output performance of triboelectric nanogenerators

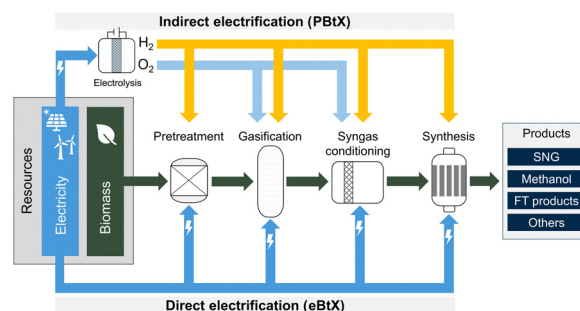
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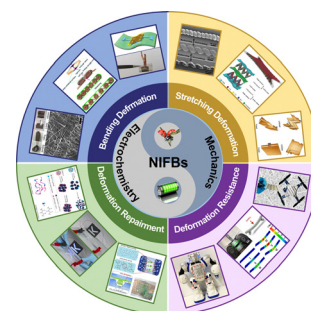
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Mechanics and electrochemistry in nature-inspired functional batteries: fundamentals, configurations and devices

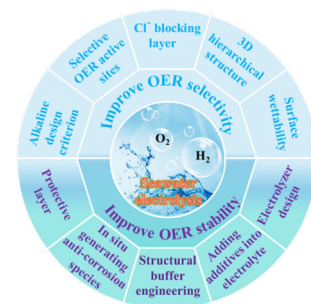
Xiangjun Xiao, Qi Meng, Jiaming Zhu, Yan Zhang, Yulin Ma, Hua Huo, Geping Yin* and Shuaifeng Lou*



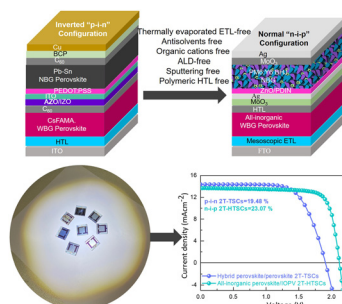
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Highly efficient sustainable strategies toward carbon-neutral energy production

Jingbin Huang, Bin Hu, Jiashen Meng, Tao Meng, Wenxin Liu, Yiting Guan, Lin Jin* and Xingcai Zhang*



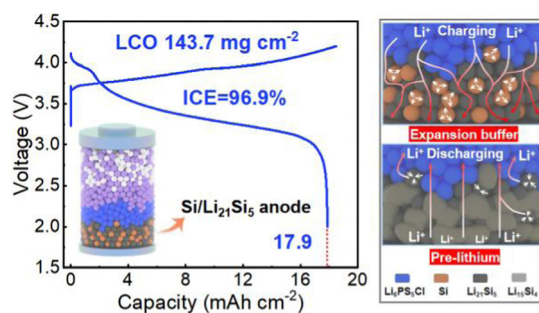
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All-inorganic halide perovskites for air-processed "n-i-p" monolithic perovskite/organic hybrid tandem solar cells exceeding 23% efficiency

Sawanta S. Mali, Jyoti V. Patil, Julian A. Steele, Mohammad Khaja Nazeeruddin, Jin Hyeok Kim and Chang Kook Hong*

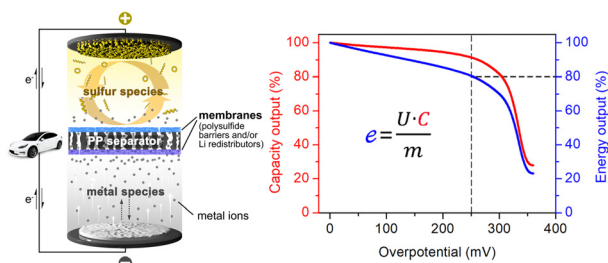
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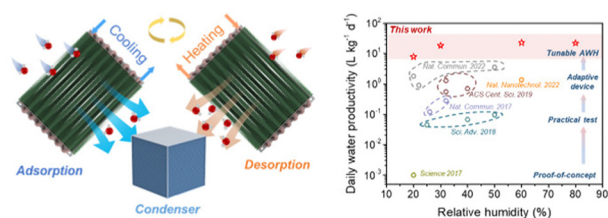
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Balancing polysulfide containment and energy loss in lithium-sulfur batteries

Borui Liu, Huimin Gu, Juan F. Torres, Zongyou Yin* and Antonio Tricoli*

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Active MOF water harvester with extraordinary productivity enabled by cooling-enhanced sorption

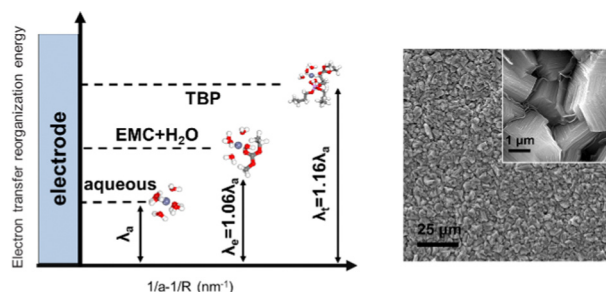
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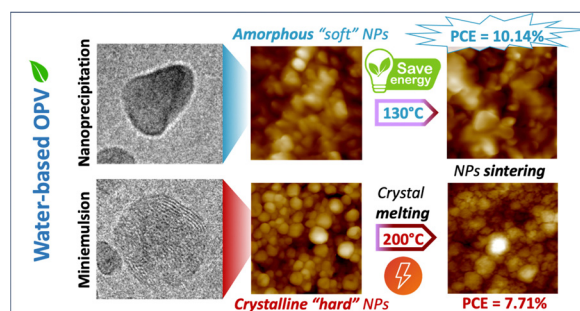
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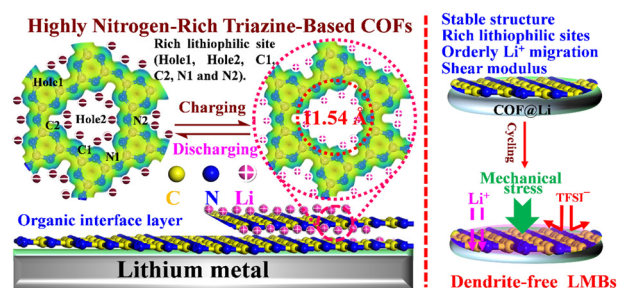
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In situ interface engineering of highly nitrogen-rich triazine-based covalent organic frameworks for an ultra-stable, dendrite-free lithium-metal anode

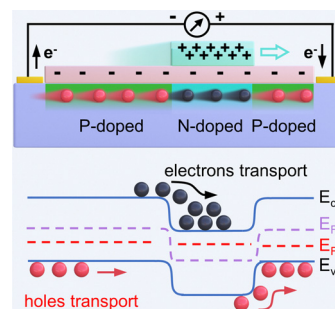
Liguo Yue, Xinying Wang, Li Chen, Dijun Shen, Zhuhang Shao, Hao Wu, Shengfu Xiao, WeiQuan Liang, Yaojiang Yu and Yunyong Li*



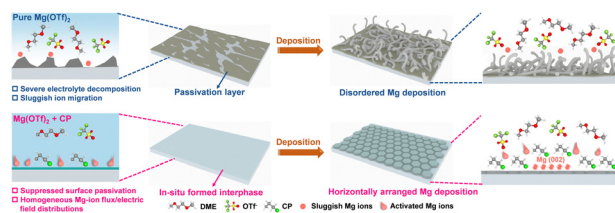
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Field effect nanogenerator operated by sliding gates

Chongxiang Pan, Leo N.Y. Cao, Jia Meng, Luyao Jia, Weiguo Hu, Zhong Lin Wang* and Xiong Pu*



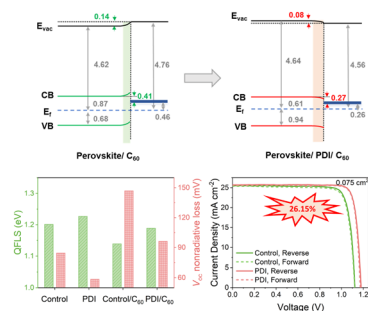
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Realizing horizontal magnesium platelet deposition and suppressed surface passivation for high-performance magnesium metal batteries

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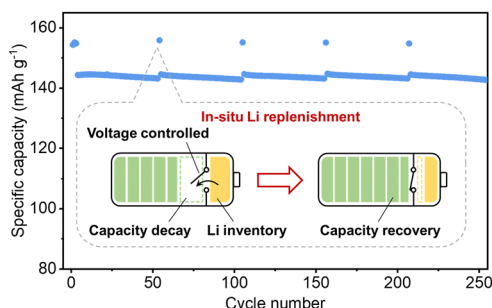
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Towards 26% efficiency in inverted perovskite solar cells *via* interfacial flipped band bending and suppressed deep-level traps

Yiting Zheng, Yaru Li,* Rongshan Zhuang, Xueyun Wu, Congcong Tian, Anxin Sun, Chen Chen, Yongsheng Guo, Yong Hua, Ke Meng,* Kai Wu* and Chun-Chao Chen*

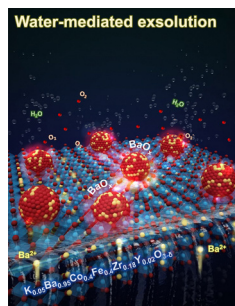
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Controllable long-term lithium replenishment for enhancing energy density and cycle life of lithium-ion batteries

Ganxiong Liu, Wang Wan, Quan Nie, Can Zhang, Xinlong Chen, Weihuang Lin, Xuezhe Wei, Yunhui Huang, Ju Li* and Chao Wang*

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Water-mediated exsolution of nanoparticles in alkali metal-doped perovskite structured triple-conducting oxygen electrocatalysts for reversible cells

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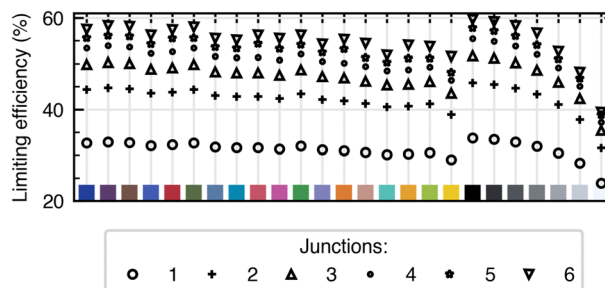


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Efficiency limits and design principles for multi-junction coloured photovoltaics

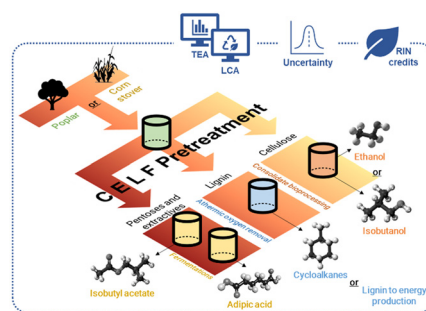
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Economics and global warming potential of a commercial-scale delignifying biorefinery based on co-solvent enhanced lignocellulosic fractionation to produce alcohols, sustainable aviation fuels, and co-products from biomass

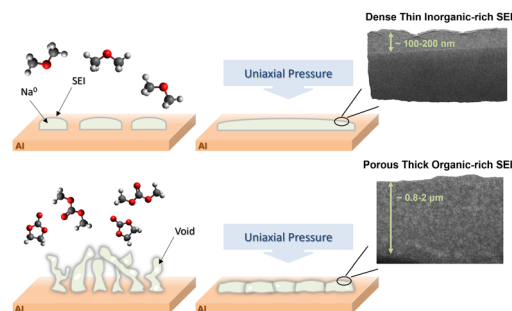
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Quantitative analysis of sodium metal deposition and interphase in Na metal batteries

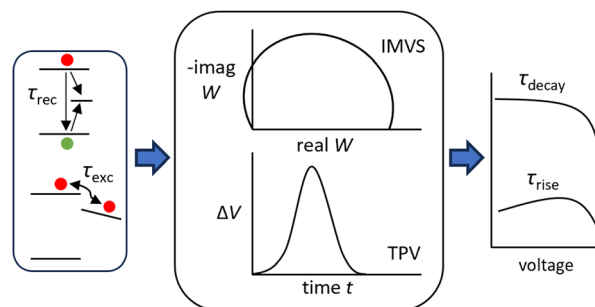
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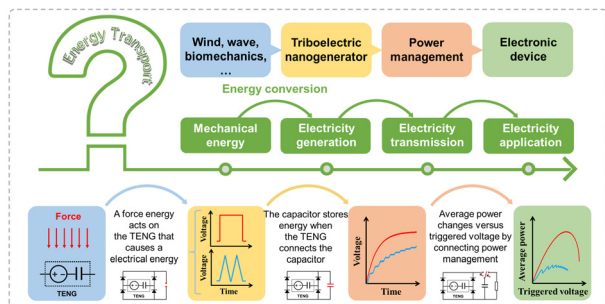
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Discerning rise time constants to quantify charge carrier extraction in perovskite solar cells

Sandheep Ravishankar,* Lennard Kruppa, Sandra Jenatsch, Genghua Yan and Yueming Wang



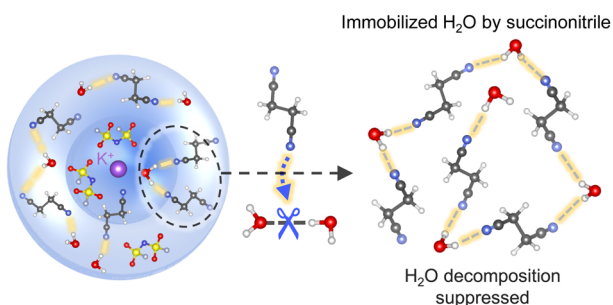
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Efficient energy transport in constant-voltage triboelectric nanogenerator-based power units

Xinyuan Li, Zhihao Zhao, Yuexiao Hu, Yikui Gao, Lixia He, Wenyan Qiao, Baofeng Zhang, Youlong Xu,* Zhong Lin Wang* and Jie Wang*

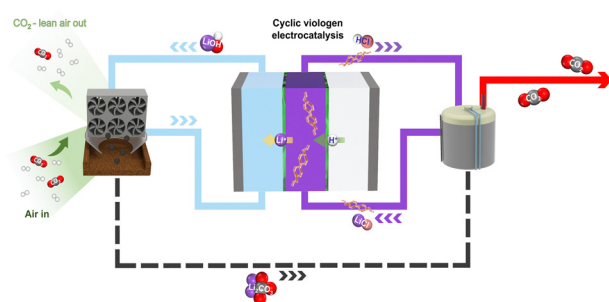
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Hydrogen-bond regulation in organic/aqueous hybrid electrolyte for safe and high-voltage K-ion batteries

Maoting Xia, Hongwei Fu,* Kairui Lin, Apparao M. Rao, Limei Cha, Huan Liu, Jiang Zhou, Chengxin Wang* and Bingnan Lu*

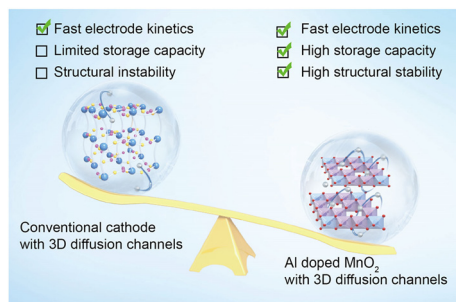
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Direct air capture of CO₂ via cyclic viologen electrocatalysis

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Vacancy-rich Al-doped MnO₂ cathodes break the trade-off between kinetics and stability for high-performance aqueous Zn-ion batteries

Yajun Zhao, Shuoxiao Zhang, Yangyang Zhang, Jinrui Liang, Longtao Ren, Hong Jin Fan,* Wen Liu* and Xiaoming Sun*



CORRECTIONS

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Correction: Simultaneous generation of furfuryl alcohol, formate, and H₂ by co-electrolysis of furfural and HCHO over bifunctional CuAg bimetallic electrocatalysts at ultra-low voltage

Liang Zhao, Zheng Lv, Yue Shi, Shuanglong Zhou, Yan Liu, Jiani Han, Qi Zhang, Jianping Lai* and Lei Wang*

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Addendum: Self-operating transpiration-driven electrokinetic power generator with an artificial hydrological cycle

Jaehyeong Bae, Tae Gwang Yun, Bong Lim Suh, Jihan Kim and Il-Doo Kim*

