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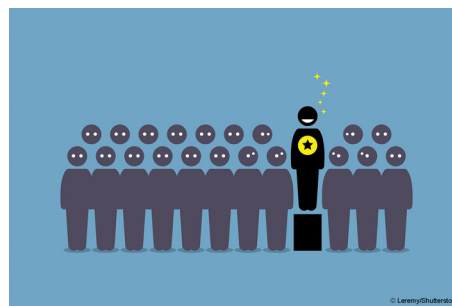
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EDITORIAL

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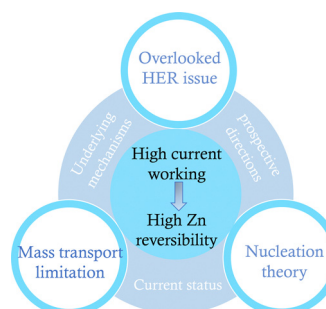


OPINION

2723

High reversibility at high current density: the zinc electrodeposition principle behind the “trick”

Yang Yang, Huijun Yang,* Ruijie Zhu and Haoshen Zhou*



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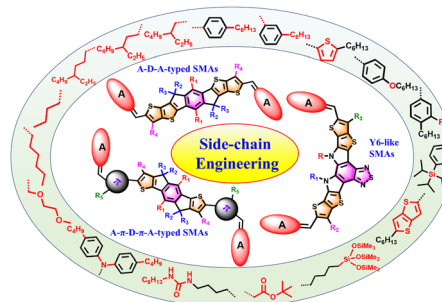


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Side-chain engineering of nonfullerene small-molecule acceptors for organic solar cells

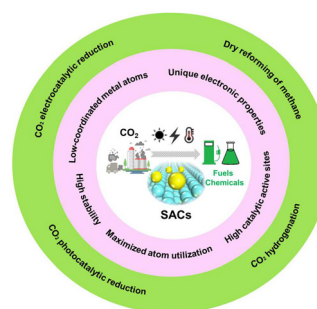
Zhenghui Luo,* Tongle Xu, Cai'e Zhang and Chuluo Yang*



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Recent advances of single-atom catalysts in CO₂ conversion

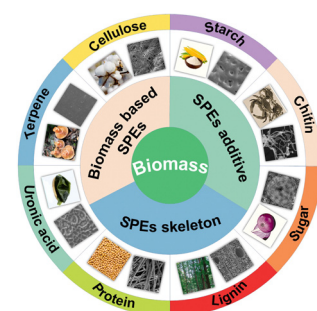
Shunwu Wang, Ligang Wang, Dingsheng Wang and Yadong Li*



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Designing biomass-integrated solid polymer electrolytes for safe and energy-dense lithium metal batteries

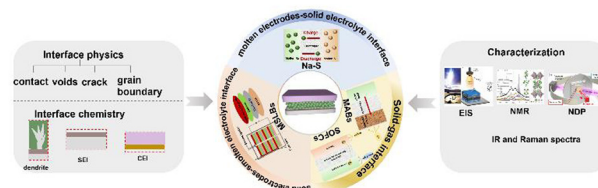
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Yanli Zhu, Wei Li, Lan Zhang, Wenhao Fang, Qingin Ruan, Jin Li, Fengjie Zhang, Haitao Zhang, Ting Quan* and Suojang Zhang*



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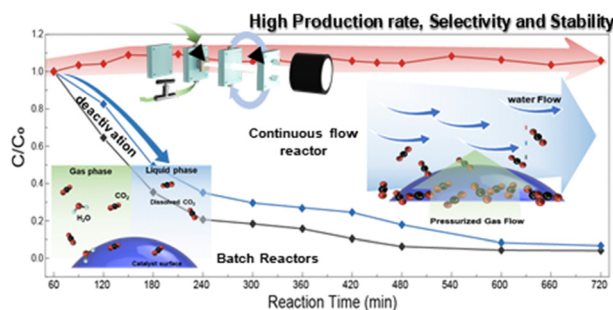


Cathode regeneration and upcycling of spent LIBs: toward sustainability

Xiang Xiao, Li Wang,* Yingqiang Wu, Youzhi Song, Zonghai Chen* and Xiangming He*

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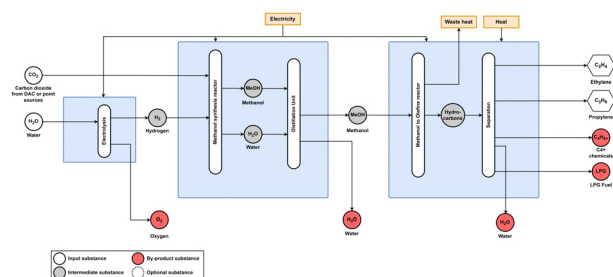
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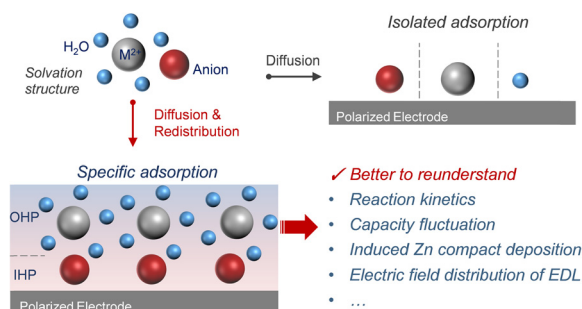
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From fossil to green chemicals: sustainable pathways and new carbon feedstocks for the global chemical industry

Gabriel Lopez,* Dominik Keiner, Mahdi Fasihi, Tuomas Koiranen and Christian Breyer

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Reunderstanding aqueous Zn electrochemistry from interfacial specific adsorption of solvation structures

Hang Yang, Duo Chen,* Ruizheng Zhao, Gaoyang Li, Hao Xu, Li Li, Xin Liu, Guangshe Li, Dongliang Chao and Wei Han*

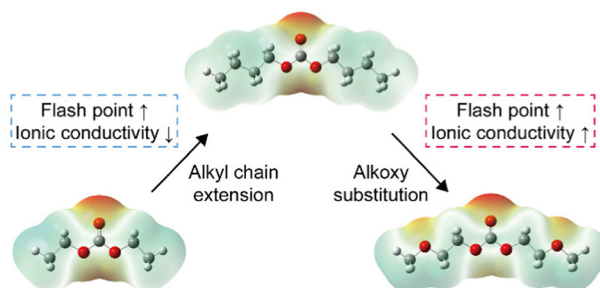


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Molecularly engineered linear organic carbonates as practically viable nonflammable electrolytes for safe Li-ion batteries

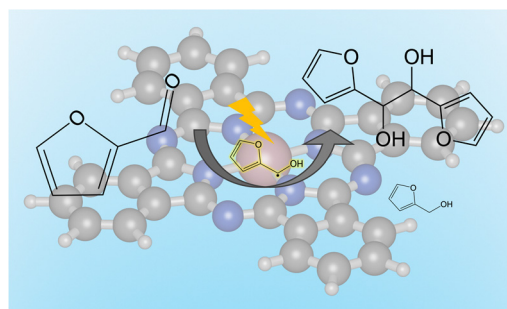
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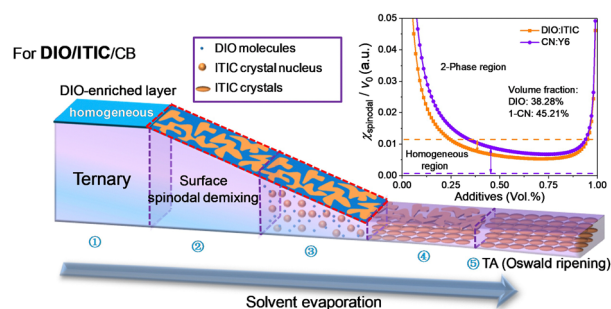
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Surface crystallinity enhancement in organic solar cells induced by spinodal demixing of acceptors and additives

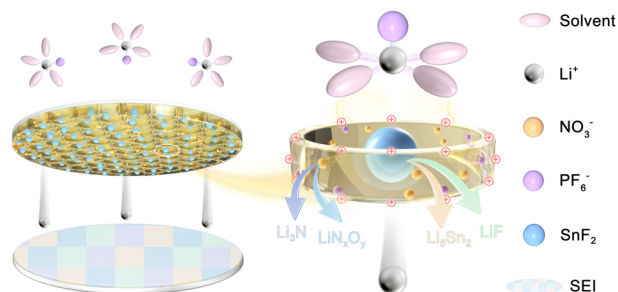
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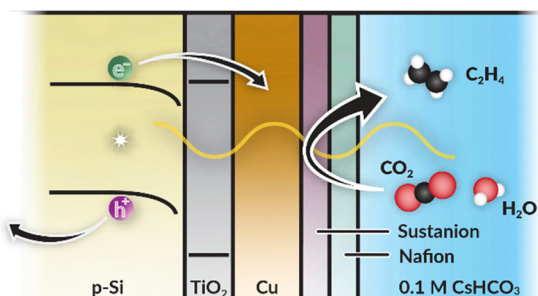
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A separator rich in SnF_2 and NO_3^- directs an ultra-stable interface toward high performance Li metal batteries

Yucheng Wen, Jieying Ding, Jun Liu, Min Zhu and Renzong Hu*



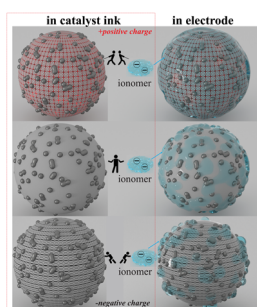
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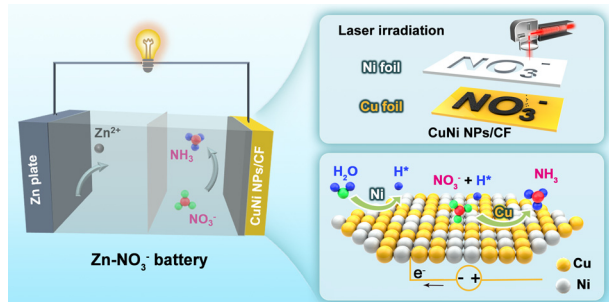
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Unraveling the core of fuel cell performance: engineering the ionomer/catalyst interface

Chenzhao Li, Kang Yu, Ashley Bird, Fei Guo, Jan Ilavsky, Yadong Liu, David A. Cullen, Ahmet Kusoglu, Adam Z. Weber, Paulo J. Ferreira and Jian Xie*

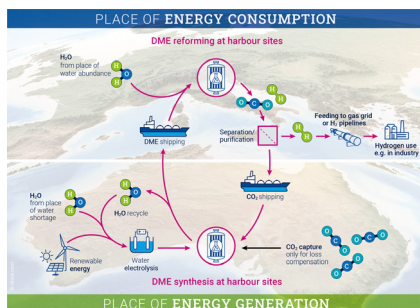
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Laser-controlled tandem catalytic sites of CuNi alloys with ampere-level electrocatalytic nitrate-to-ammonia reduction activities for Zn–nitrate batteries

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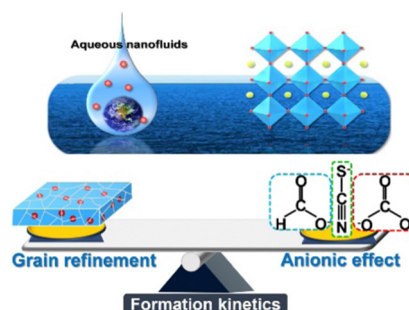
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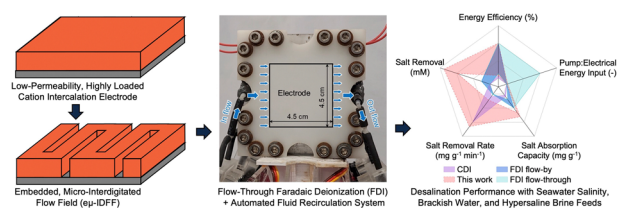
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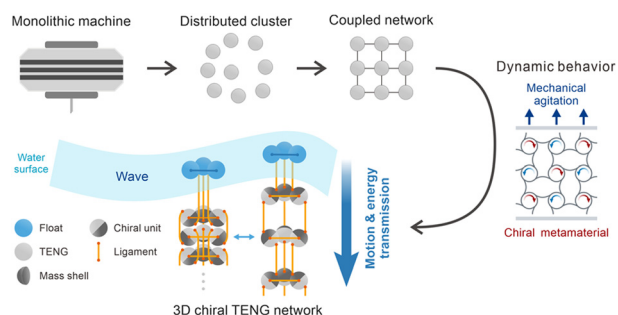
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Three-dimensional chiral networks of triboelectric nanogenerators inspired by metamaterial's structure

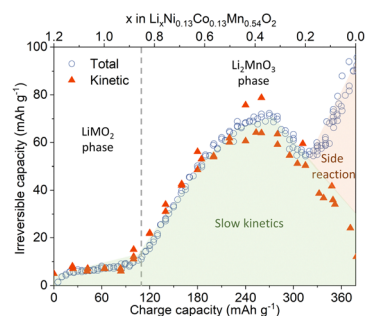
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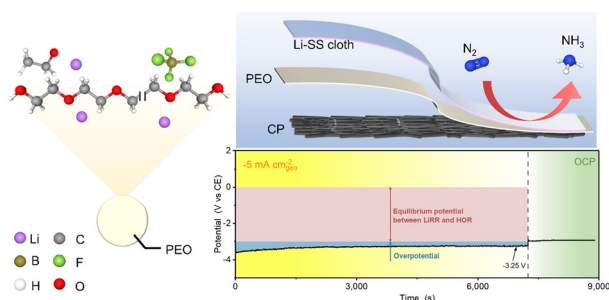
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Non-monotonic first-cycle irreversible capacity governed by delithiation depth in Li-rich layered cathodes

Liang Fang, Daseul Han, Seongkoo Kang, Un-Seon Heo, Kyung-Wan Nam* and Yong-Mook Kang*



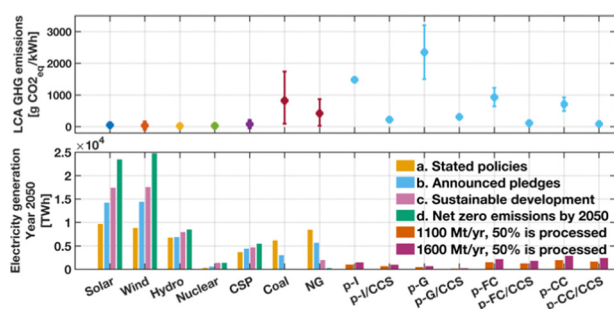
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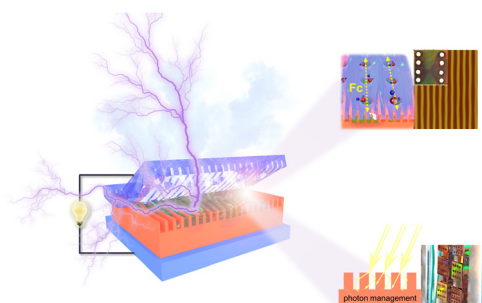
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Nonviable carbon neutrality with plastic waste-to-energy

Serang Kwon, Jieun Kang, Beomhui Lee, Soonwook Hong, Yongseok Jeon, Moonsoo Bak and Seong-kyun Im*

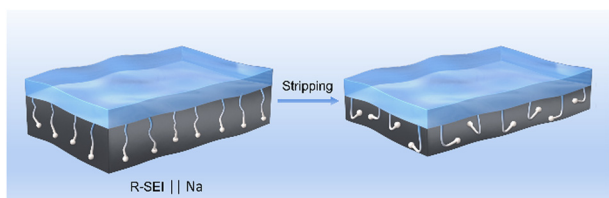
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Self-induced interface enhanced moisture-harvesting and light-trapping toward high performance electric power generation

Jiaxin Bai, Qihua Liao, Houze Yao, Tianlei Guang, Tiancheng He, Huhu Cheng and Liangti Qu*

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Chutao Wang, Zongqiang Sun, Lin Liu, Hongbin Ni, Qing Hou, Jingmin Fan, Ruming Yuan, Mingsen Zheng* and Quanfeng Dong*

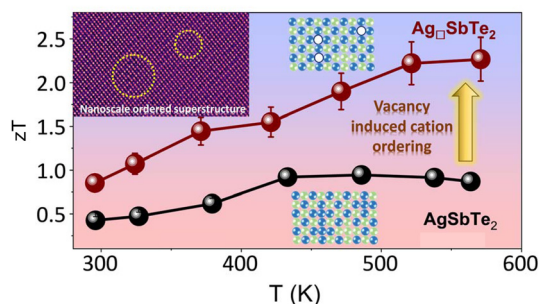


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Vacancy controlled nanoscale cation ordering leads to high thermoelectric performance

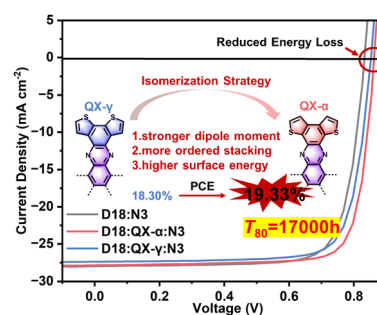
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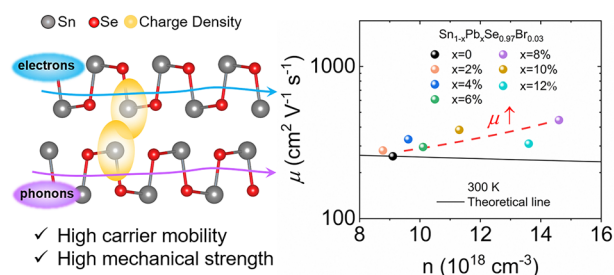
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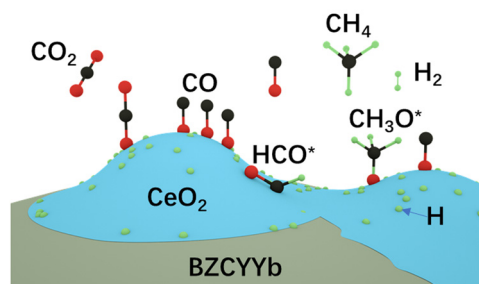
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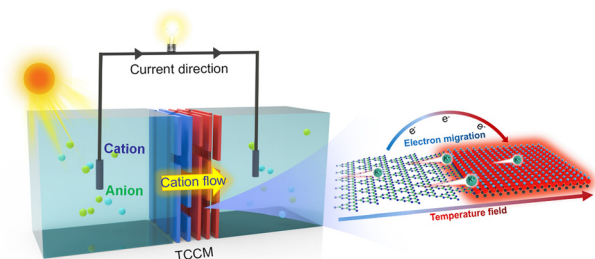
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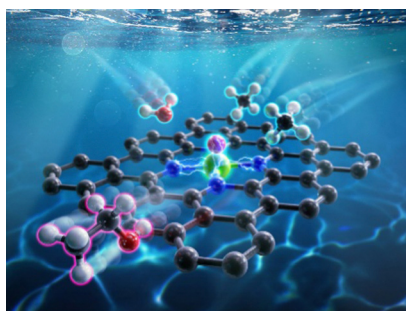
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Efficient solar energy conversion via bionic sunlight-driven ion transport boosted by synergistic photo-electric/thermal effects

Jin Wang,* Di Wang, Zeyuan Song, Na Jiang, Shangzhen Li, Yufei Zhang,* Bo Huang, Huijiao Zhou, Zheng Cui and Lei Wang*

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Boosting electrochemical methane conversion by oxygen evolution reactions on Fe–N–C single atom catalysts

Cheolho Kim, Heewon Min, Junmin Kim and Jun Hyuk Moon*



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