

Energy & Environmental Science

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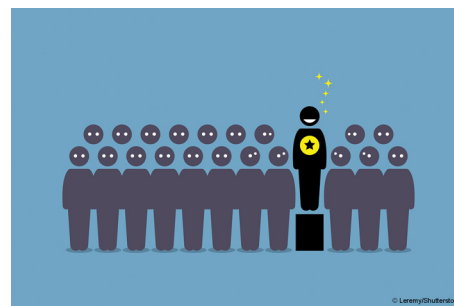
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EDITORIAL

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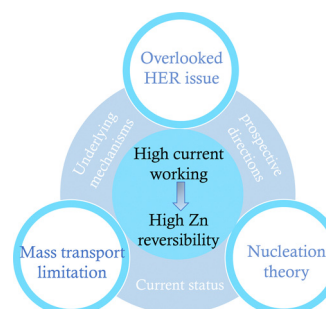


OPINION

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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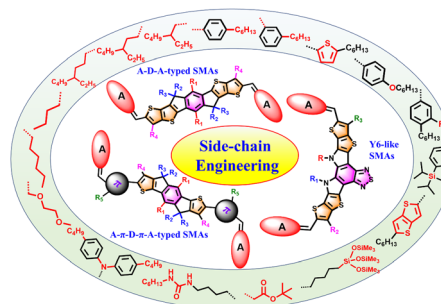


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Side-chain engineering of nonfullerene small-molecule acceptors for organic solar cells

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



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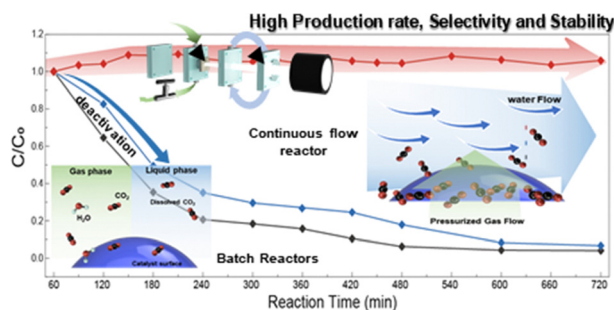


Cathode regeneration and upcycling of spent LIBs: toward sustainability

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

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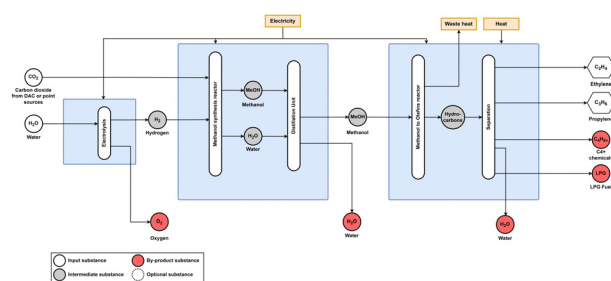


Continuous-flow reactor with superior production rate and stability for CO₂ reduction using semiconductor photocatalysts

Hyunju Jung, Chansol Kim, Hae-Wook Yoo, Jei You, Jin Seog Kim, Aqil Jamal, Issam Gereige, Joel W. Ager* and Hee-Tae Jung*

PAPERS

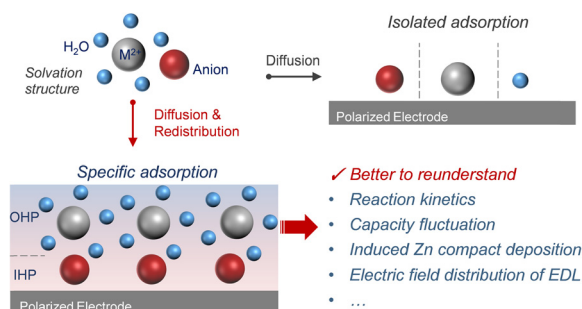
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From fossil to green chemicals: sustainable pathways and new carbon feedstocks for the global chemical industry

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

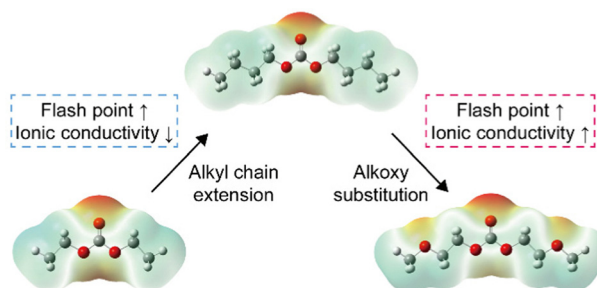
Hang Yang, Duo Chen,* Ruizheng Zhao, Gaoyang Li, Hao Xu, Li Li, Xin Liu, Guangshe Li, Dongliang Chao and Wei Han*



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

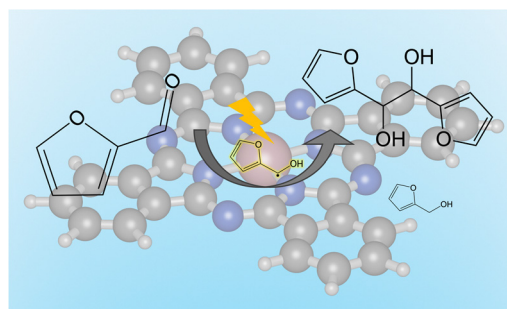
Jina Lee, A-Re Jeon, Hye Jin Lee, Ukseon Shin, Yiseul Yoo, Hee-Dae Lim, Cheolhee Han, Hochun Lee, Yong Jin Kim, Jayeon Baek,* Dong-Hwa Seo* and Minah Lee*



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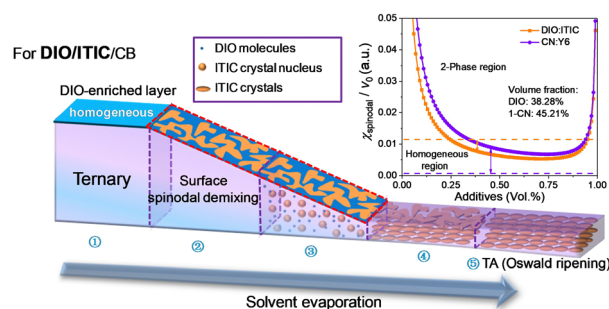
Zamaan Mukadam, Sihang Liu, Angus Pedersen, Jesús Barrio, Sarah Fearn, Saurav Ch. Sarma, Maria-Magdalena Titirici, Soren B. Scott,* Ifan E. L. Stephens,* Karen Chan and Stefano Mezzavilla*



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

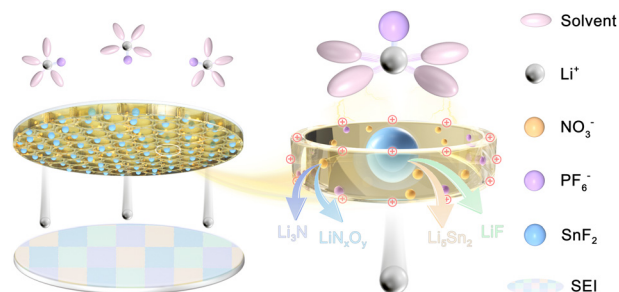
Zichao Shen, Jinde Yu,* Guanyu Lu, Keming Wu, Qingyu Wang, Laju Bu, Xinfeng Liu, Yuanwei Zhu* and Guanghao Lu*



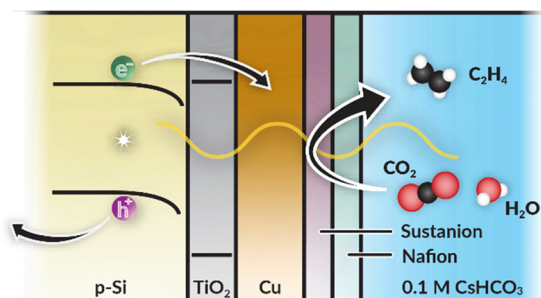
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A separator rich in SnF_2 and NO_3^- directs an ultra-stable interface toward high performance Li metal batteries

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



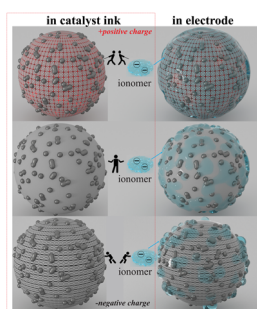
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Codesign of an integrated metal–insulator–semiconductor photocathode for photoelectrochemical reduction of CO₂ to ethylene

Chanyeon Kim, Alex J. King, Shaul Aloni, Francesca M. Toma, Adam Z. Weber and Alexis T. Bell*

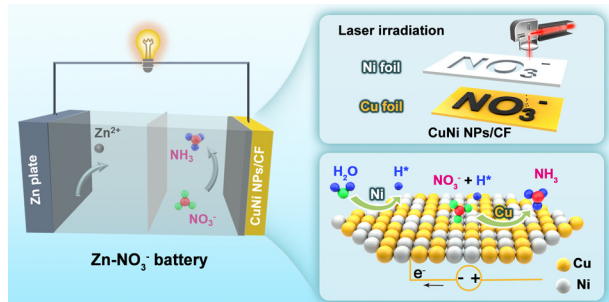
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Unraveling the core of fuel cell performance: engineering the ionomer/catalyst interface

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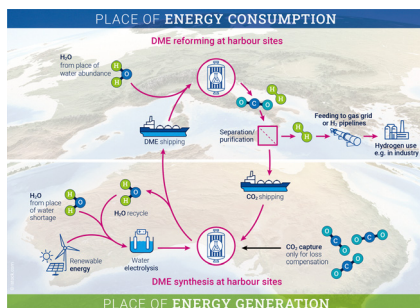
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Laser-controlled tandem catalytic sites of CuNi alloys with ampere-level electrocatalytic nitrate-to-ammonia reduction activities for Zn–nitrate batteries

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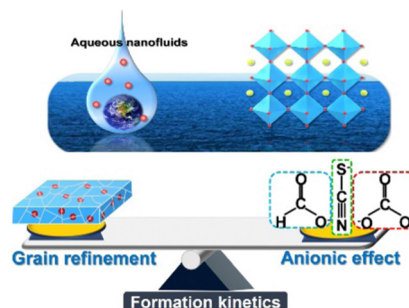
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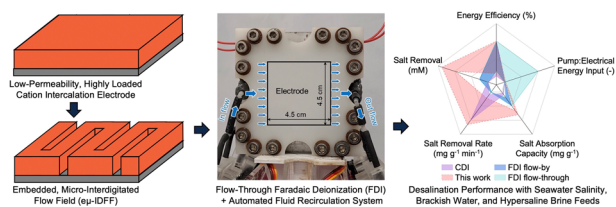
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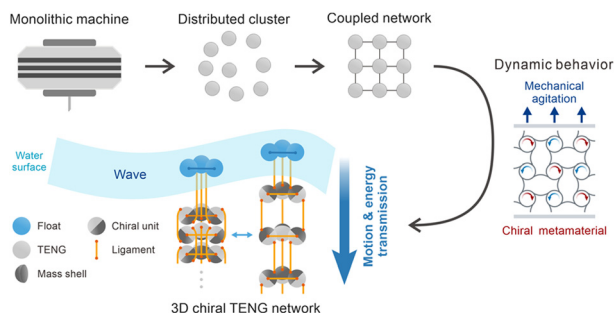
Vu Q. Do, Erik R. Reale, Irwin C. Loud IV, Paul G. Rozzi, Haosen Tan, David A. Willis and Kyle C. Smith*



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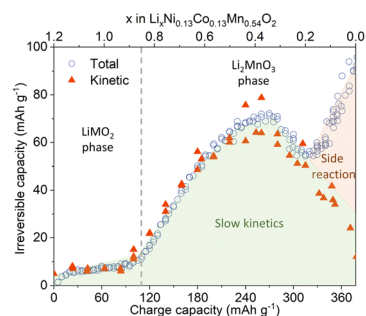
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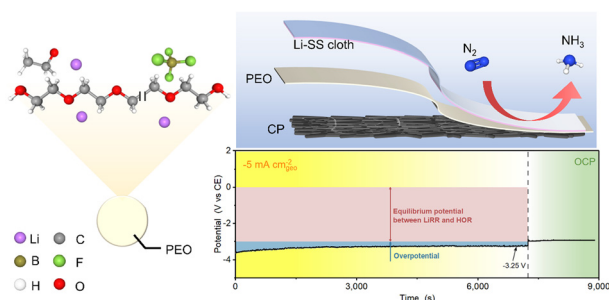
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Non-monotonic first-cycle irreversible capacity governed by delithiation depth in Li-rich layered cathodes

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



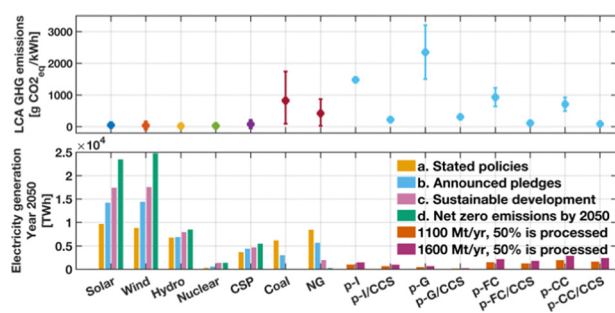
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Membrane electrode assembly design for lithium-mediated electrochemical nitrogen reduction

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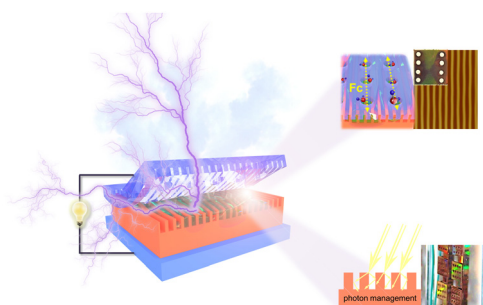
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Nonviable carbon neutrality with plastic waste-to-energy

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

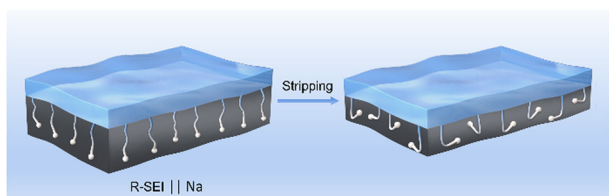
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Self-induced interface enhanced moisture-harvesting and light-trapping toward high performance electric power generation

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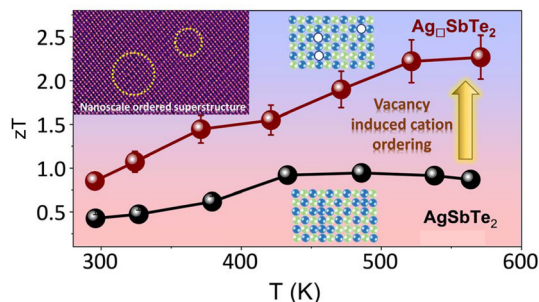
Chutao Wang, Zongqiang Sun, Lin Liu, Hongbin Ni, Qing Hou, Jingmin Fan, Ruming Yuan, Mingsen Zheng* and Quanfeng Dong*



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Vacancy controlled nanoscale cation ordering leads to high thermoelectric performance

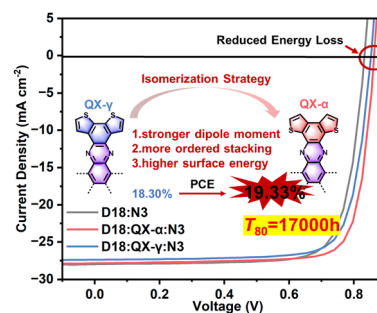
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Isomerization strategy on a non-fullerene guest acceptor for stable organic solar cells with over 19% efficiency

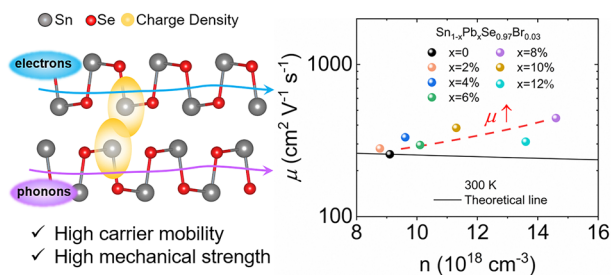
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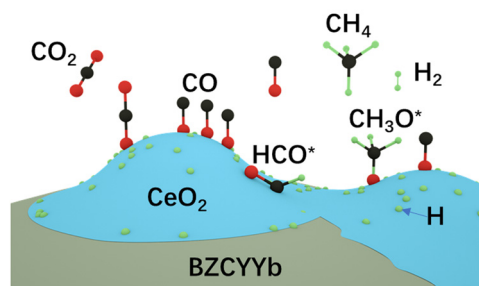
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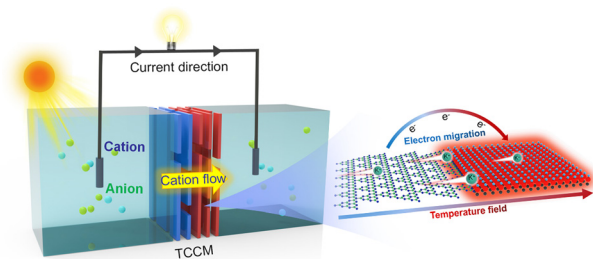
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Yongjian Ye, WonJun Lee, Junxian Pan, Xiang Sun, Mengzhen Zhou, Jiahui Li, Nian Zhang, Jeong Woo Han* and Yan Chen*



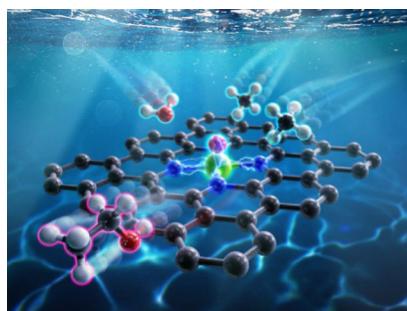
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Boosting electrochemical methane conversion by oxygen evolution reactions on Fe–N–C single atom catalysts

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



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