

Journal of Materials Chemistry A

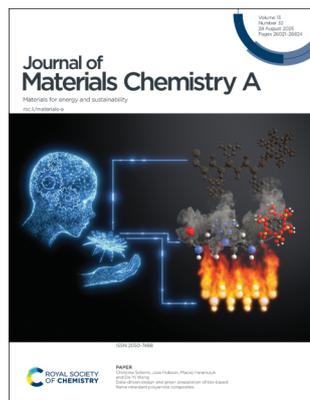
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ISSN 2050-7488 CODEN JMCAET 13(32) 26021–26824 (2025)



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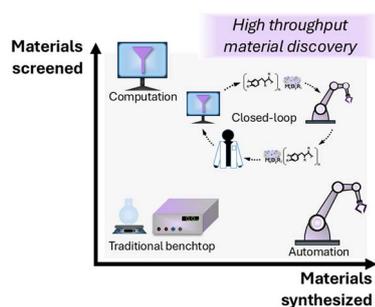
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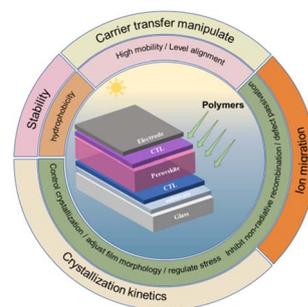
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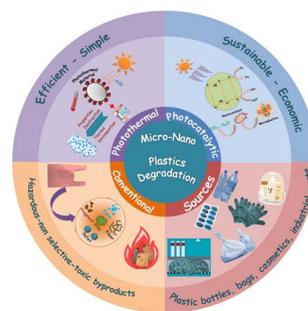
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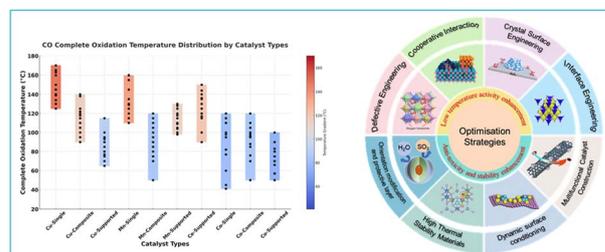
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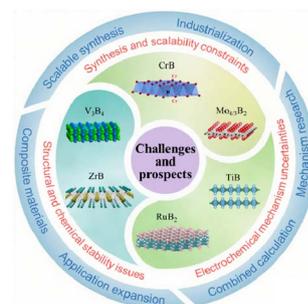
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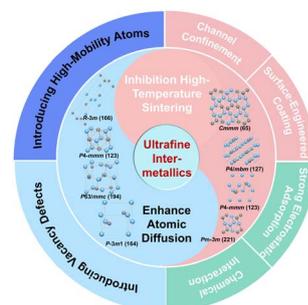


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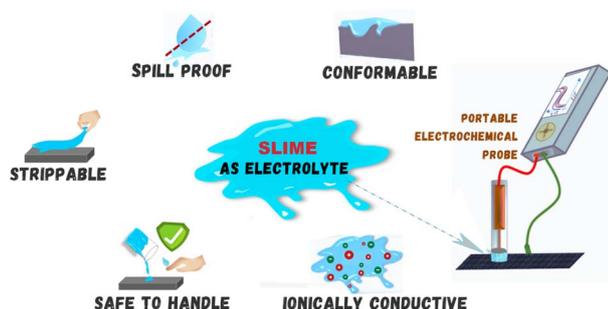
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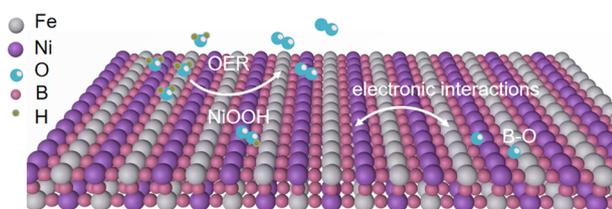


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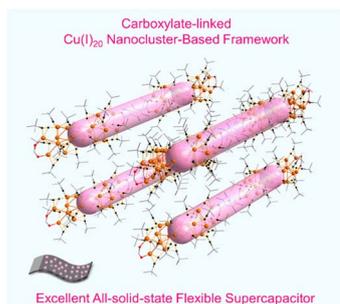
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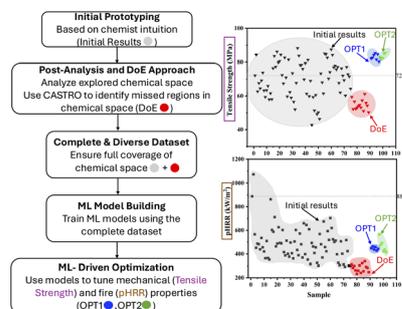
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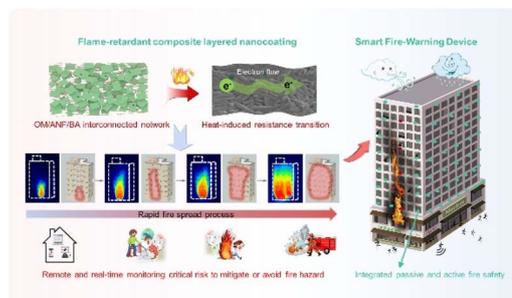
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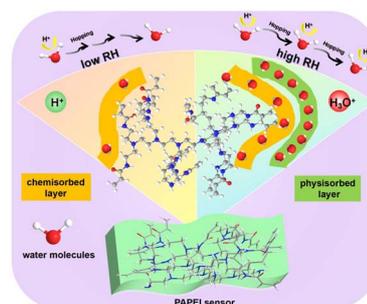
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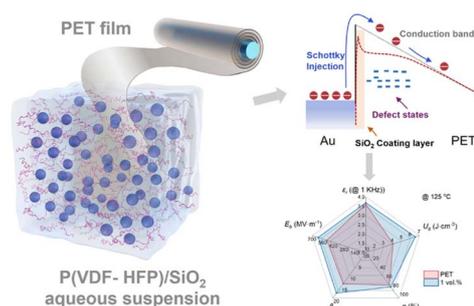
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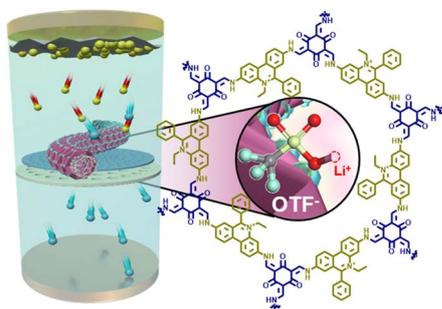
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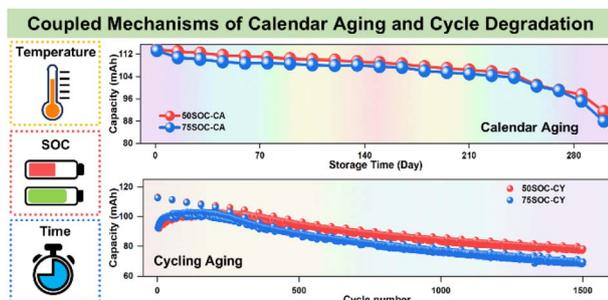
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Regulating the anionic environment of the COF@CNT composite for kinetics-boosted and wide-temperature lithium–sulfur batteries

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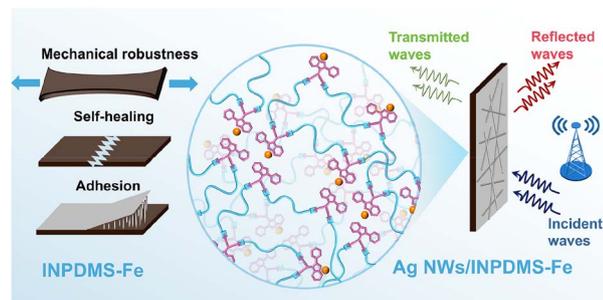
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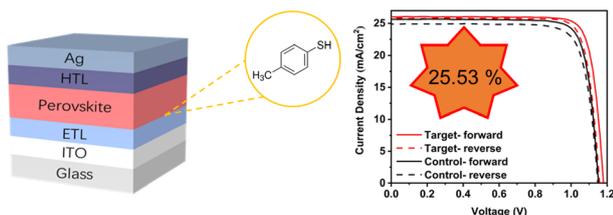
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A room-temperature self-healing and mechanically robust siloxane elastomer *via* synergistic complexation and cation– π interactions for high-performance electromagnetic interference shielding

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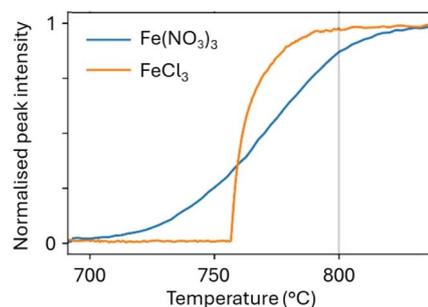
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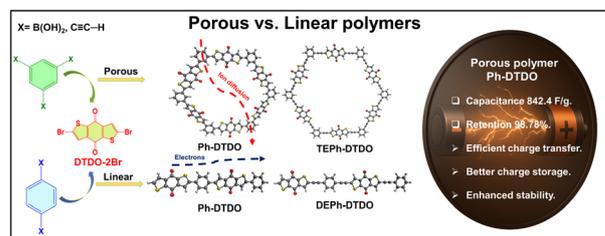
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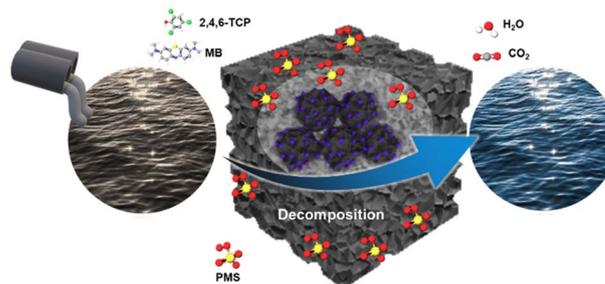
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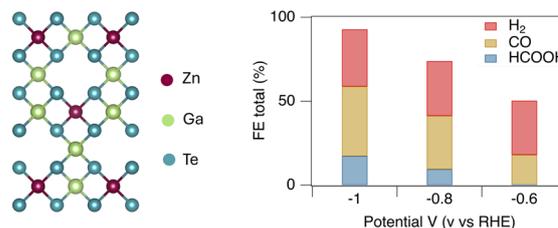


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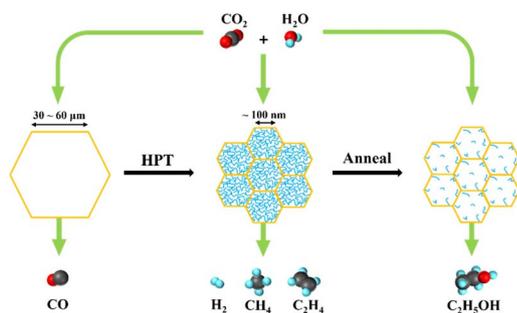
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ZnGa₂Te₄ Thin Film as a Photocathode



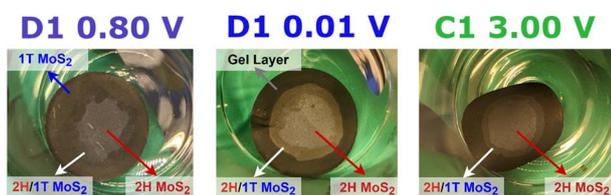
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Effect of crystal defects on the selectivity of a bulk Cu–Zn alloy for electrocatalytic CO₂ reduction

Shengnan Hao, Peng Zhang, Yuying Meng, Wenbiao Zhang, Qingsheng Gao,* Kaveh Edalati* and Huai-Jun Lin*

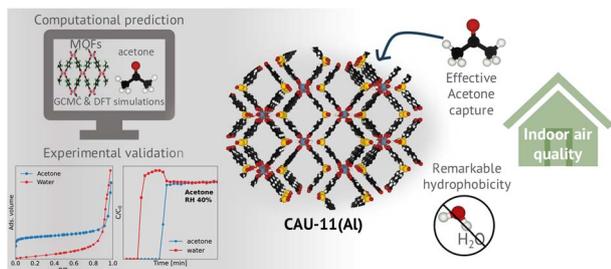
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Visible lithiation gradients of bulk MoS₂ in lithium-ion coin cells

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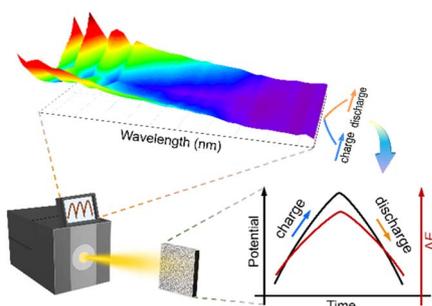
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High-performance hydrophobic MOFs for selective acetone capture under humid conditions

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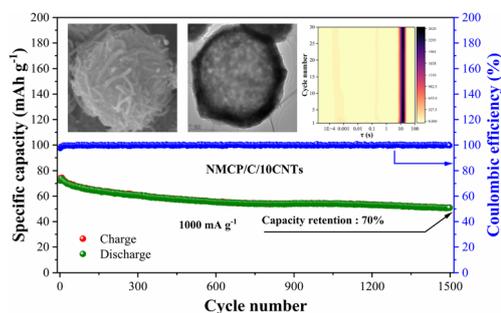
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Spray-drying synthesis of high-performance $\text{Na}_4\text{MnCr}(\text{PO}_4)_3$ for sodium-ion batteries via a CNT-induced conductive network and optimized interface kinetics

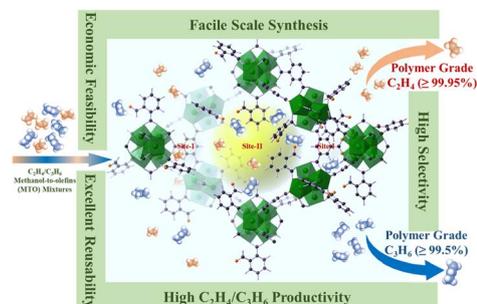
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Site-engineered Zr-based metal–organic frameworks for ultrahigh-performance one-step separation of methanol-to-olefins products

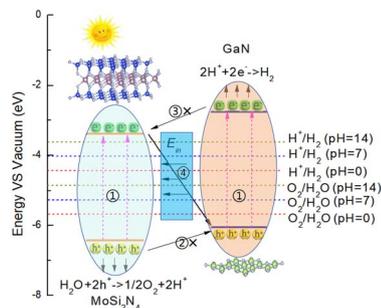
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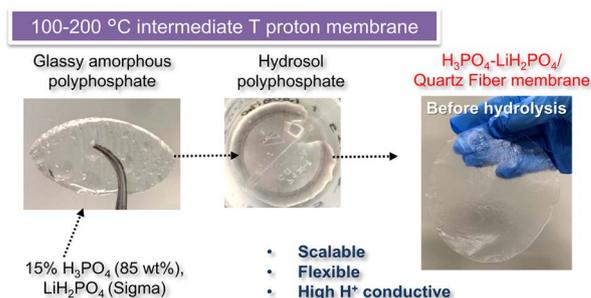
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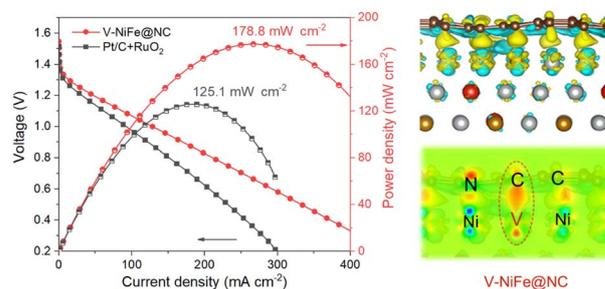
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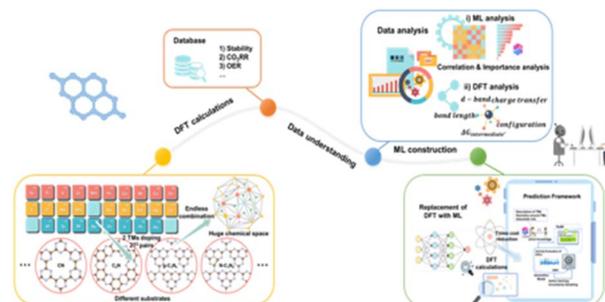
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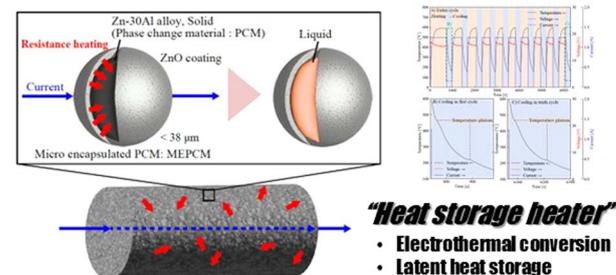
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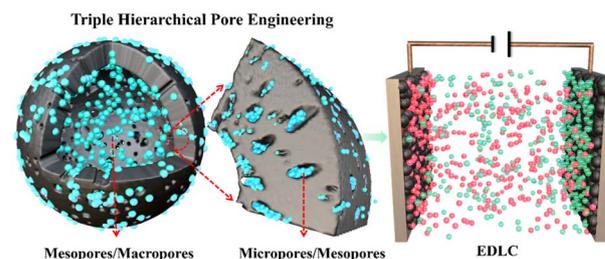
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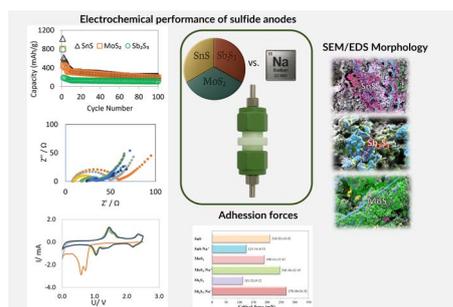
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Rational engineering of triple-hierarchical pores in carbon nanospheres for superior organic supercapacitive storage

Zhenhu Li,* Yongsu Li, Yaoning Tian, Jun Xiao, Feiyang Pan and Shuangyi Liu



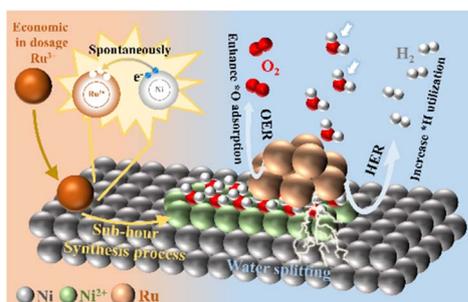
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Electrochemical performance of MoS_2 , Sb_2S_3 , and SnS anodes in sodium-ion batteries using a conductive polypyrrole-carbon black composite and an LBG sustainable binder

Ewelina Rudnicka,^{*} Aleksandra Mirowska, Manuela Skowron and Beata Kurc

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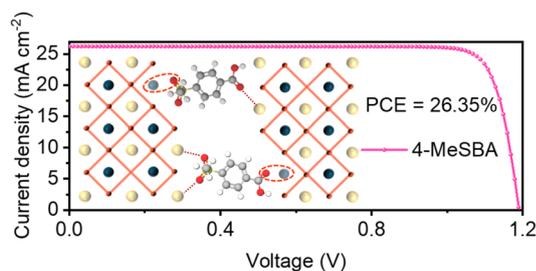


Ultra-economical fabrication of a Ru cluster-loaded $\text{Ni}(\text{OH})_2$ self-supported electrode *via* sub-hour corrosion for effective bifunctional water splitting

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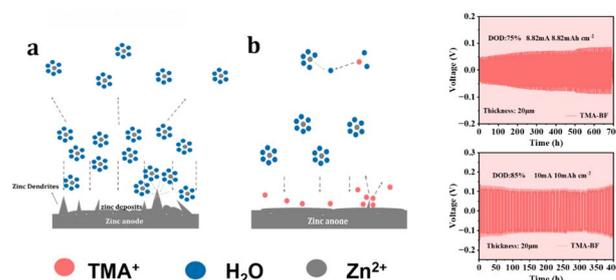
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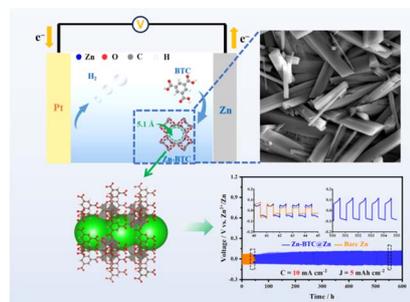
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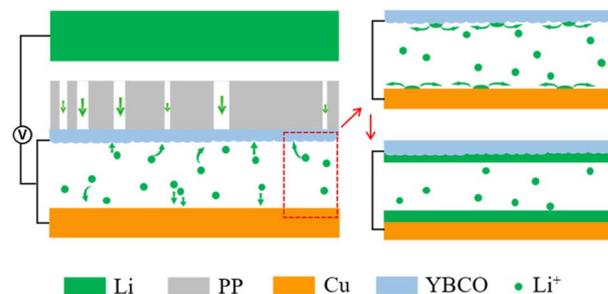
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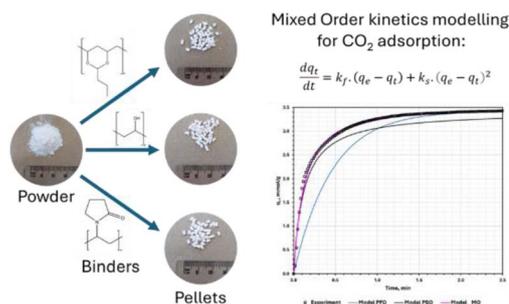
Juntao Si, Yida Wang, Jingchao Xiao, Yunyong Hu, Bicao Pan and Chunhua Chen*



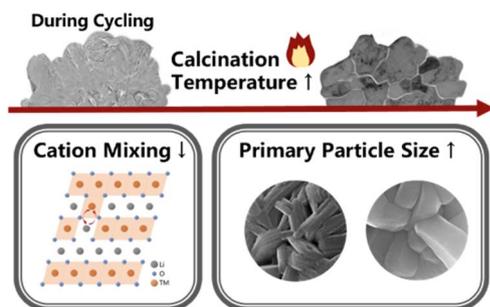
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Kinetics of CO₂ adsorption on UTSA-16(Zn) metal-organic framework: thermal, compositional, and geometrical effects

Sanad Altarawneh and John Luke Woodliffe*



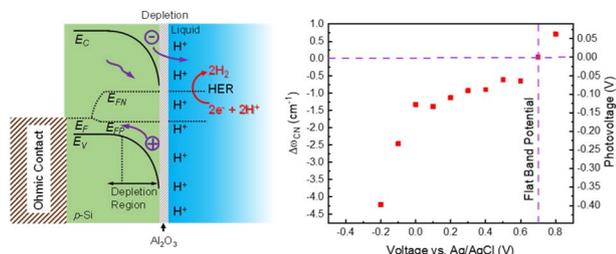
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Origin of electrochemical cycling stability induced by calcination temperature for cobalt-free nickel-rich cathodes

Chenxi Song, Yaoyu Ren,^{*} Lin Gu, Qingyun Zhang, Yang Lu and Yang Shen^{*}

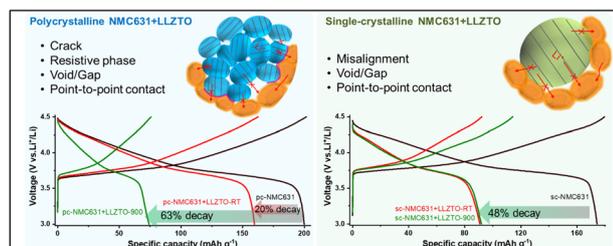
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Ruoxi Li, Yu Yun Wang, Sizhe Weng, Rifat Shahriar and Stephen B. Cronin^{*}

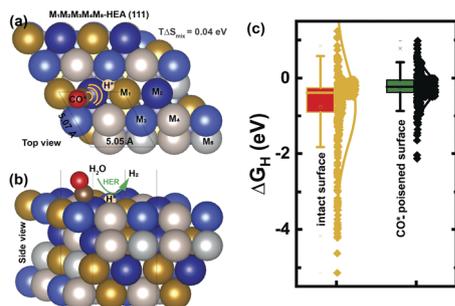
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Ziting Ma, Grant LaBriola, Karlo Adrian Salazar, Chunting Chris Mi and Lingping Kong^{*}

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Breaking the poisoning paradigm: a high-throughput DFT screening of high-entropy alloys with a focus on phonon-induced uncertainty

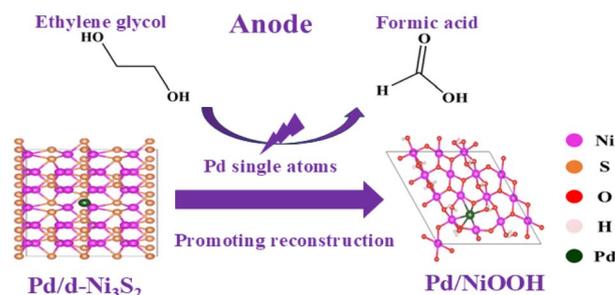
Mohsen Tamtaji, William A. Goddard III^{*} and GuanHua Chen^{*}



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Mingming Zhan, Lipeng Guo, Xin Liang, Zhefei Zhao,* Xingyu Luo, Ruopeng Yu, Qilong Wu, Linlin Zhang, Runtao Jin, Yihan Zhu, Yi Jia* and Huajun Zheng*



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Synergistic construction of defect-rich nanozymes via montmorillonite support loading and iron doping for enhanced peroxidase-like activity

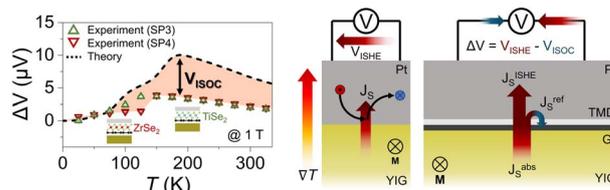
Wenjie Qu, Xiaorong Yang, Feng Feng, Yihe Zhang* and Wangshu Tong*



26690

Negative spin-to-charge current induced by interfacial spin–orbit coupling in Pt/monolayer 1T-TiSe₂/graphene/yttrium iron garnet quadruple heterostructures

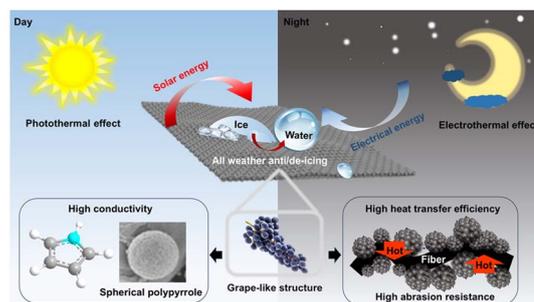
Jae Won Choi, Yun-Ho Kim, Jung-Min Cho, Katsuaki Sugawara, Jungtae Nam, Min-Sung Kang, Gangmin Park, Gil-Sung Kim, No-Won Park, Takashi Kikkawa, Won-Yong Lee, Young-Gui Yoon, Keun Soo Kim, Eiji Saitoh, Takafumi Sato* and Sang-Kwon Lee*



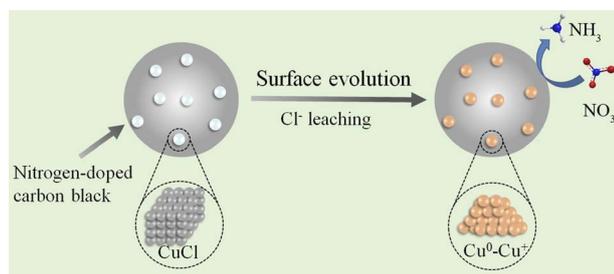
26700

A robust grape-like superhydrophobic surface for efficient oil–water separation and anti/de-icing

Xiaoyan Xu, Chutong Xiao, Wenquan Liu, Wei Li,* Lingling Feng, Xixuan Fang and Hui Qiao*



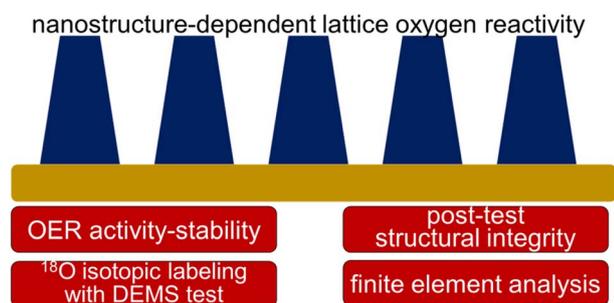
26797



Anion leaching induced amorphous Cu/CuO_x on N-doped carbon for efficient electrochemical nitrate reduction to ammonia

Maolin Zhang, Karthik Peramaiah, Moyu Yi and Hao Huang*

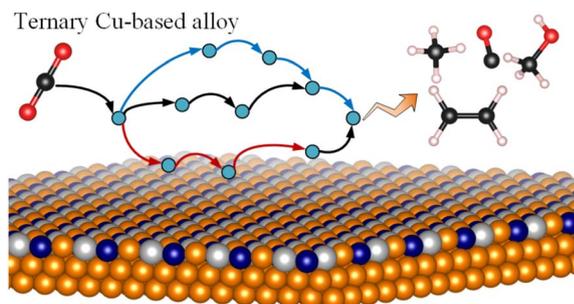
26804



Nanostructure-dependent lattice oxygen reactivity and degradation of CoNi oxyhydroxide OER electrocatalysts: a mechanistic study

Liuyuan Ran, Kai Zhao, Xiaoyi Jiang and Ning Yan*

26812



A convenient method of ternary alloys design for CO₂-to-C₂H₄ electroreduction

Yiyang Xiao, Yingju Yang,* Wei Liu and Jing Liu

