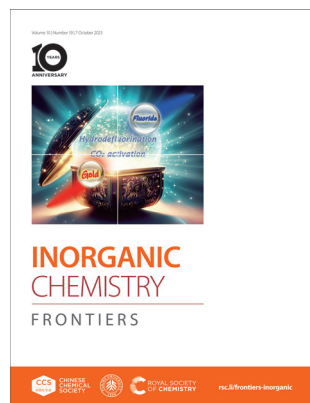


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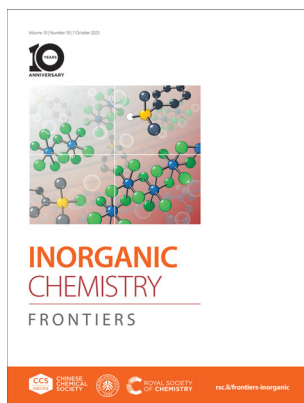
ISSN 2052-1553 CODEN ICFNAW 10(19) 5499–5790 (2023)



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See Jun-Long Zhang *et al.*, pp. 5573–5583.

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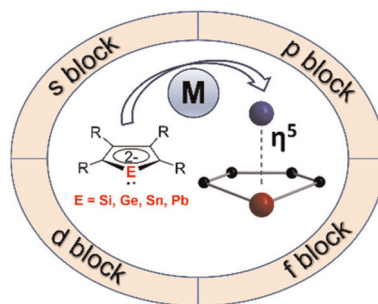
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Group 14 metallole dianions as η^5 -coordinating ligands

Xiaofei Sun and Peter W. Roesky*

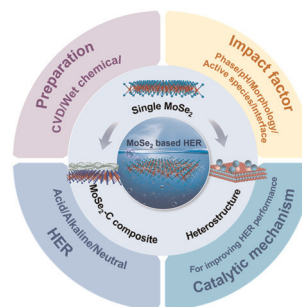


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Recent advances in molybdenum diselenide-based electrocatalysts: preparation and application in the hydrogen evolution reaction

Chunming Yang,* Xiang Li and Yucang Liang*



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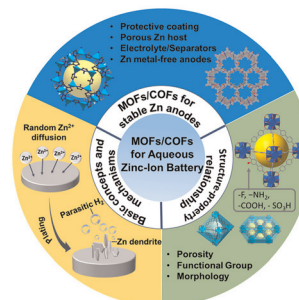


REVIEWS

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Porous framework materials for stable Zn anodes in aqueous zinc-ion batteries

Liling Lei, Jiahao Dong, Siwen Ke, Shishan Wu* and Shuai Yuan*

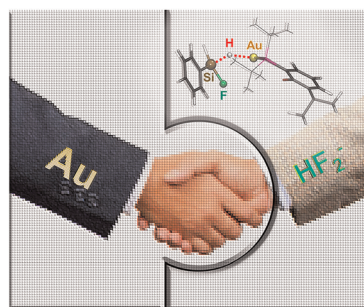


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Fluoride counterions boost gold(I) catalysis: case studies for hydrodefluorination and CO₂ hydrosilylation

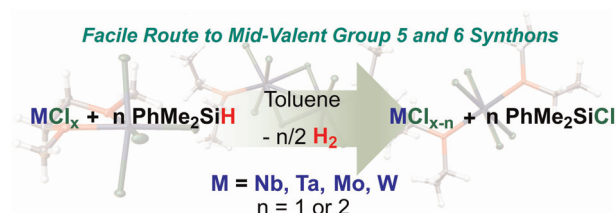
Yuhang Yao, Jiyun Hu, Guiyu Liu, Yin-Shan Meng, Song Gao and Jun-Long Zhang*



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Facile access to mid-valent Group 5 and 6 metal synthons

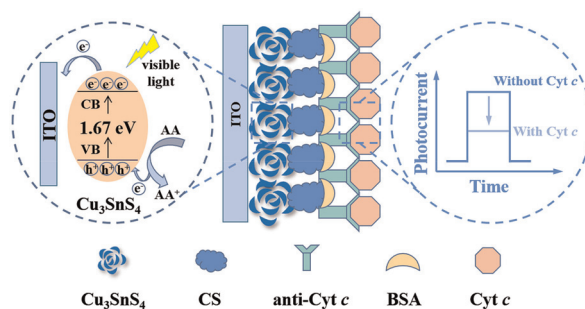
Thomas E. Shaw, Charlotte L. Stern, Alfred P. Sattelberger* and Titel Jurca*



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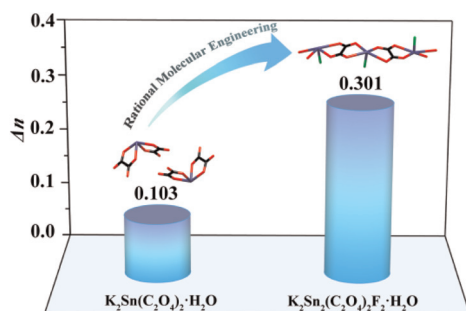
Portable self-powered photoelectrochemical immunosensor based on Cu₃SnS₄ nanoflower for ultra-sensitive and real-time detection of human cytochrome c

Xin Zhang, Ling-Hua Jin, Yan-Yan Li, Zi-Zhen Xiao, Yu Feng, Ying-Wu Lin* and Ye Zhang*



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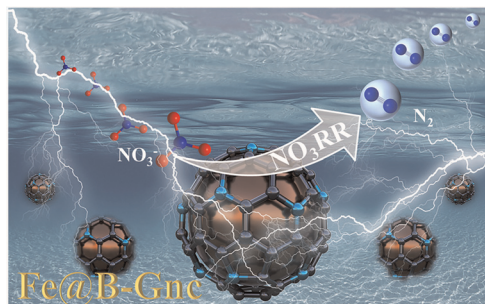
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The transformation of a zero-dimensional cluster into a one-dimensional chain structure achieving a dramatically enhanced birefringence in tin(II)-based oxalates

Liying Ren, Linhong Cheng, Xiaoyan Zhou, Jinxuan Ren, Liling Cao,* Ling Huang, Xuehua Dong, Yuqiao Zhou, Daojiang Gao and Guohong Zou*

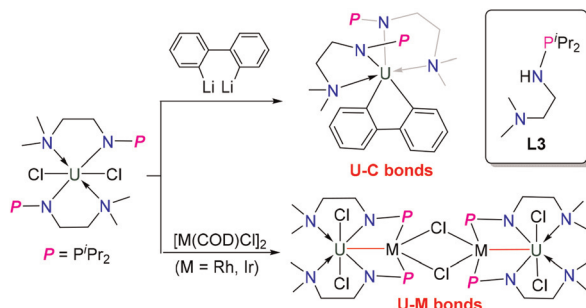
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Confinement engineering for enhanced electrocatalytic nitrate reduction by integrating B-doped graphene with iron catalysts for long-term stability

Hongxia Luo, Chuqi Wang, Yuting Cong, Yuanyuan Ma,* Jianping Yang and Jun Chen*

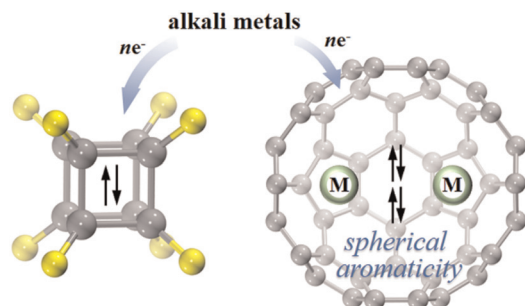
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Synthesis and reactivity of a uranium(IV) complex supported by a monoanionic nitrogen–phosphorus ligand

Kai Li, Jialu He, Yue Zhao and Congqing Zhu*

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Alkali-metal coating: an effective method to inject electrons into cage molecules and achieve direct metal–metal bonds and spherical aromaticity for endohedral metallofullerenes

Xiaojiao Gu and Peng Jin*

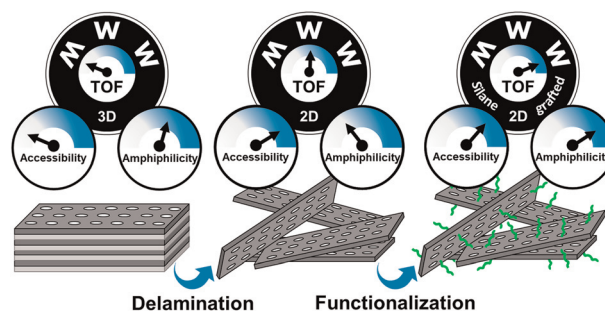


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Tailoring the accessibility and amphiphilicity of MWW zeolites for two-phase glycerol ketalization

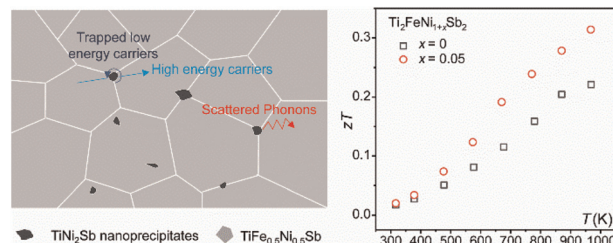
Diego S. D. Lima, Laura L. Silva, Iago W. Zapelini, Svetlana Mintova and Leandro Martins*



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Enhancing the thermoelectric performance of a $\text{Ti}_2\text{FeNiSb}_2$ double half-Heusler alloy through excess Ni-induced full-Heusler nanoprecipitates

Rahidul Hasan, Yan Gu, Se Yun Kim, Dong Won Chun* and Kyu Hyoung Lee*



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Tailoring the d-band center of porous CoS_2 nanospheres via low-electronegative Fe for weakened OH^* adsorption and boosted oxygen evolution

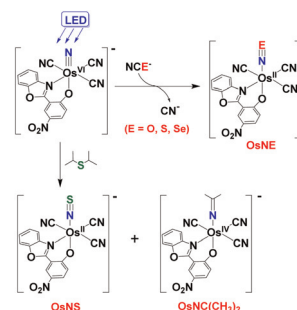
Heyuan Chen, Wei Wu, Suhao Chen, Zichen Wang, Runzhe Chen and Niancai Cheng*



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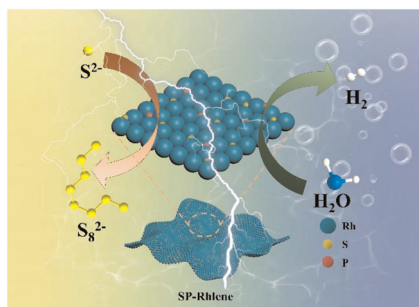
Chalcogen atom abstraction from NCE^- ($\text{E} = \text{O}, \text{S}, \text{Se}$) and $\text{i-Pr}_2\text{S}$ by the excited state of a luminescent tricyano osmium(vi) nitride

Li-Xin Wang, Miaomiao Zhou, Lu-Lu Liu, Jing Xiang*, Ji-Yan Liu, Kai-Chung Lau* and Tai-Chu Lau*



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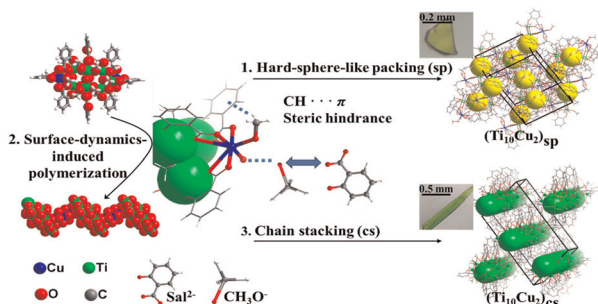
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Electronic and active site engineering in Rh metallene via phosphorus and sulfur dual-doping for electrocatalytic sulfion recycling and hydrogen generation

Hongjing Wang, Yuqin Liang, Songliang Liu, Xu Mu, Hongjie Yu, Kai Deng, Ziqiang Wang, You Xu* and Liang Wang*

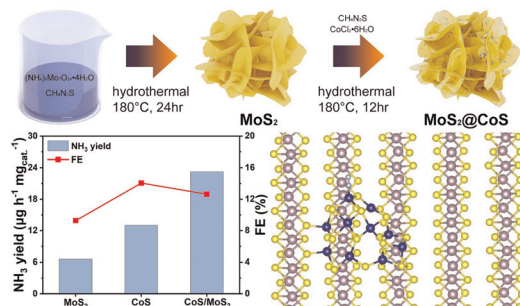
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A surface-dynamic approach toward supercrystal engineering of titanium-oxo clusters

Ling-Cui Meng, Zhi-Ming Feng, Zhan-Guo Jiang* and Cai-Hong Zhan*

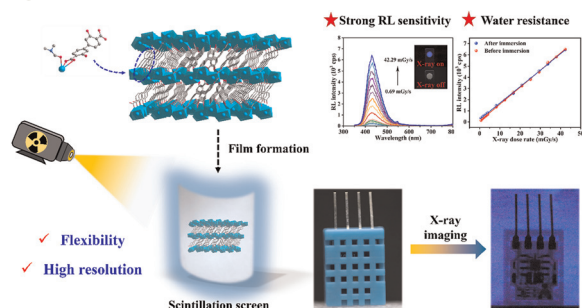
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Interface engineering of CoS/MoS₂ heterostructure for the electrocatalytic reduction of N₂ to NH₃

Yixian Liu, Ruqiang Wu, Yunliang Liu, Peiji Deng, Yaxi Li, Yuanyuan Cheng, Yongchao Du, Zenan Li, Xiong Yan, Naiyun Liu,* Zhenhui Kang* and Haitao Li*

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Flexible strontium-based metal-organic framework scintillation screens for high-resolution X-ray imaging

Peng-Kun Wang, Wen-Fei Wang, Bao-Yi Li, Mei-Juan Xie, Hong-Yi Bian, Shuai-Hua Wang, Fa-Kun Zheng* and Guo-Cong Guo*

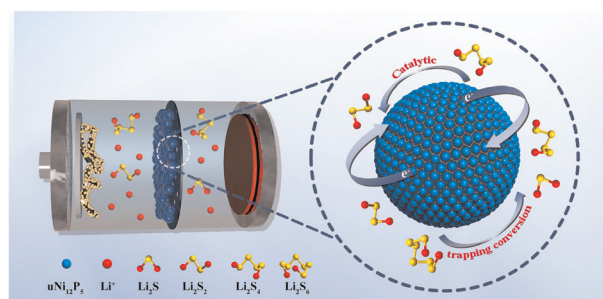


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Ultrafine Ni_{12}P_5 nanoparticle-embedded carbon with abundant catalytic activity sites as separator modifiers in high-performance lithium–sulfur batteries

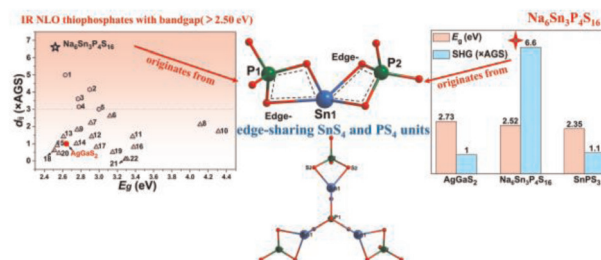
Yiqian Li, Yuehan Hao, Usman Ali, Bingqiu Liu, Qi Zhang, Zhanshuang Jin,* Lu Li, Chungang Wang and Lingyu Zhang*



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$\text{Na}_6\text{Sn}_3\text{P}_4\text{S}_{16}$: Sn(II)-chelated PS_4 groups inspired an ultra-strong SHG response

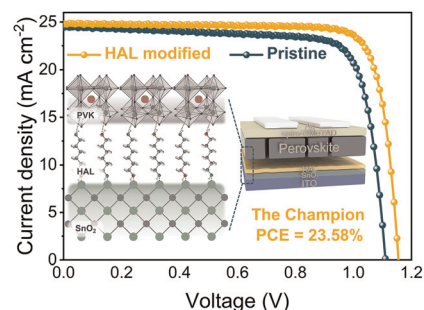
Chenyao Zhao, Bingbing Zhang,* Xinyu Tian, Guoqiang Zhou,* Jingjing Xu and Kui Wu*



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Enhanced performance of perovskite solar cells via a bilateral electron-donating passivator as a molecule bridge

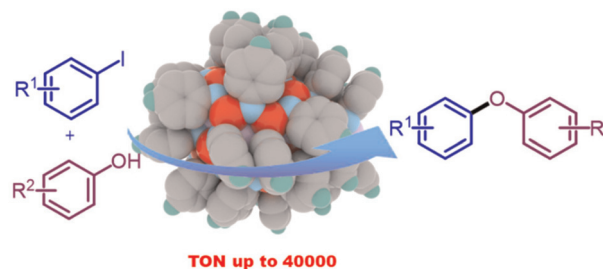
Weichun Pan, Pengxu Chen, Sijia Zhu, Ruowei He, Qingshui Zheng, Fengxian Cao, Zhang Lan, Jihuai Wu,* Weihai Sun* and Yunlong Li*



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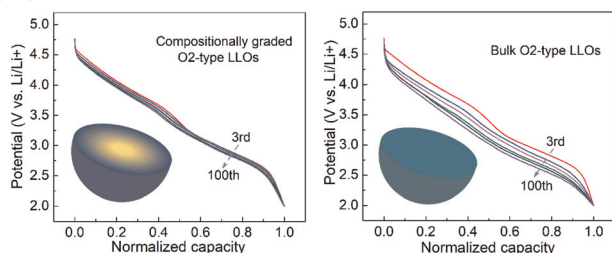
Ligand-passivated Au/Cu nanoclusters with uncoordinated sites give reaction turnover numbers of up to 4×10^4

Lu Dong, Linke Yu, Xueli Sun, Xiongkai Tang, Xuexin You, Jiaqi Tang, Zi-Ang Nan, Dongxu Cao, Yanyuan Jia, Simin Li, Fengyu Li,* Shuo Guo* and Hui Shen*



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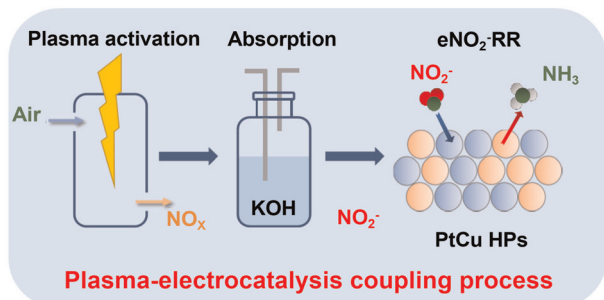
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Boosting the voltage/capacity stability of O2-type Li-rich layered cathodes by tailoring transition metal distribution for Li-ion batteries

Peiyu Hou, Zhenbo Sun, Mohan Dong, Maosheng Gong, Feng Li* and Xijin Xu*

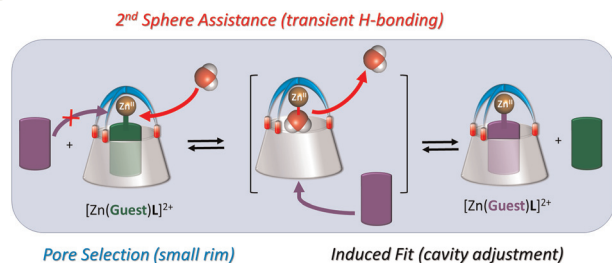
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Sustainable ammonia synthesis from air by the integration of plasma and electrocatalysis techniques

Jun Ding, Wenyi Li,* Qingqing Chen, Jiafang Liu, Shu Tang, Zhiwei Wang, Longwei Chen* and Haimin Zhang*

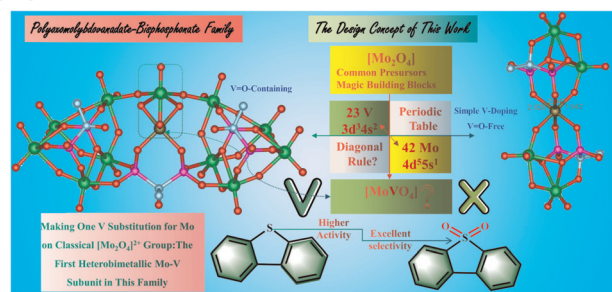
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Guest exchange in a biomimetic Zn^{II} cavity-complex: kinetic control by a catalytic water, through pore selection, 2nd sphere assistance, and induced-fit processes

N. Nyssen, N. Giraud, J. Wouters, I. Jabin, L. Leherter* and O. Reinaud*

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Making one V^{IV} substitution for Mo on classical [Mo₂O₄]²⁺ group: the first heterobimetallic Mo–V subunit in polyoxomolybdate–bisphosphonate family

Xiangyu Ren, Baokuan Chen,* Gang Zhang, Yanfeng Bi,* Lingling Dai and Guoping Yang*

