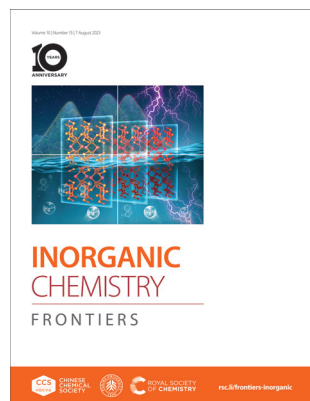


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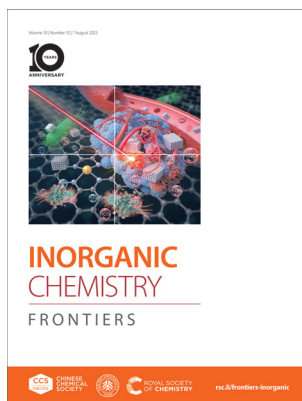
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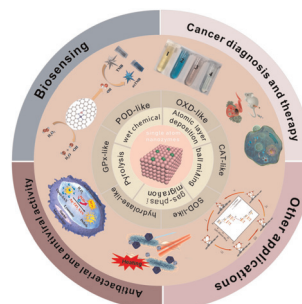
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CHEMISTRY FRONTIERS

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Single-atom nanozymes as promising catalysts for biosensing and biomedical applications

XueQian Xiao, Xiao Hu, Qiming Liu, Yuling Zhang,
Guo-Jun Zhang* and Shaowei Chen*

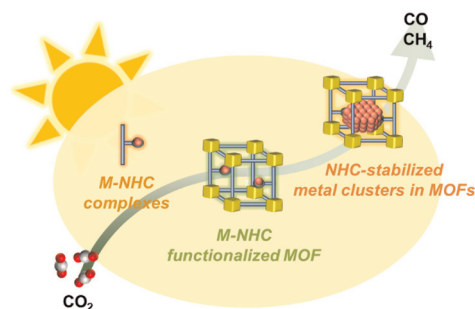


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N-heterocyclic carbene-ligated metal complexes and clusters for photocatalytic CO₂ reduction

Yilin Jiang and Honghan Fei*



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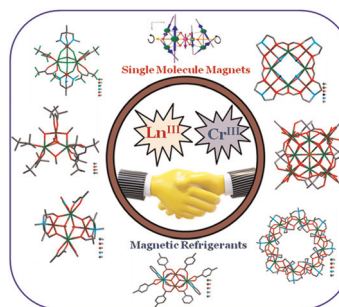


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Magnetic materials based on heterometallic $\text{Cr}^{\text{II/III}}-\text{Ln}^{\text{III}}$ complexes

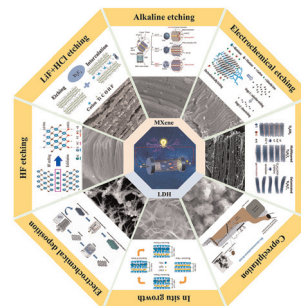
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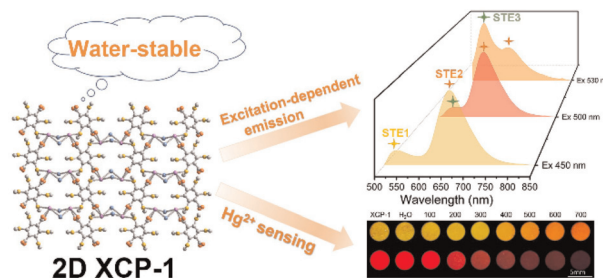


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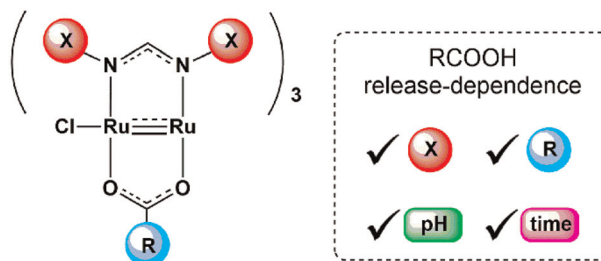
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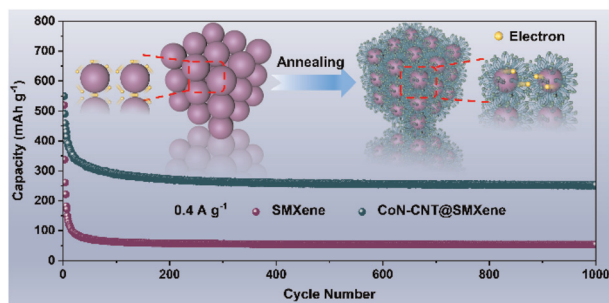
Diruthenium complexes as pH-responsive delivery systems: a quantitative assessment

Isabel Coloma, Miguel Cortijo,* María José Mancheño, María Eugenia León-González, Crisanto Gutierrez, Bénédicte Desvoves* and Santiago Herrero*



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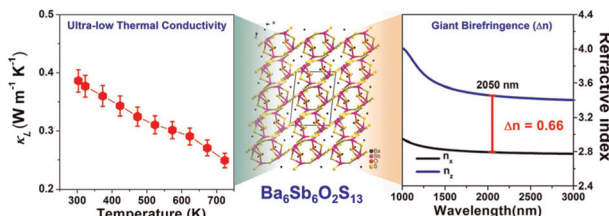
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In situ growth of MOF-derived nitrogen-doped carbon nanotubes on hollow MXene spheres for K-ion storage

Xiaoyu Chen, Shuanghong Xia, Tianyu Tan, Yajing Zhu, Ling Li,* Qiancheng Zhu* and Wenming Zhang*

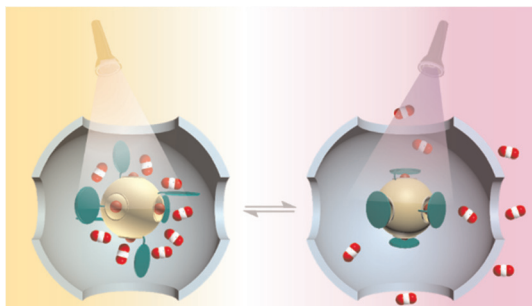
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A unique $[\text{Sb}_6\text{O}_2\text{S}_{13}]^{12-}$ finite chain in oxychalco-genide $\text{Ba}_6\text{Sb}_6\text{O}_2\text{S}_{13}$ leading to ultra-low thermal conductivity and giant birefringence

Yong-Fang Shi, Sheng-Hua Zhou, Peng-Fei Liu, Xin-Tao Wu, Hua Lin* and Qi-Long Zhu*

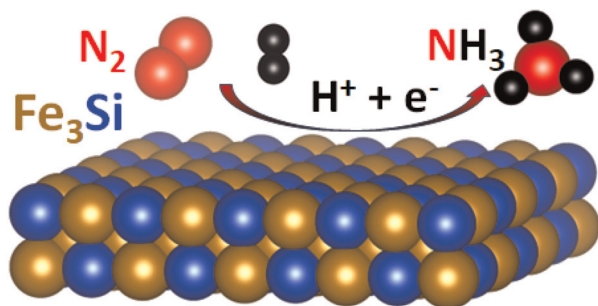
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Target-specific isolation of light-switchable metal-organic cages within metal-organic frameworks for tunable CO_2 adsorption

Yao Jiang,* Mingming Xu, Kang Wang, Tao Yang, Shaojun Jia, Xiao-Qin Liu, Peng Cui and Lin-Bing Sun*

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Enhancing the nitrogen reduction activity of iron with inactive group-IVA elements at optimized stoichiometry

Hanqing Yin, Stuart Bell, Dmitri Golberg and Aijun Du*

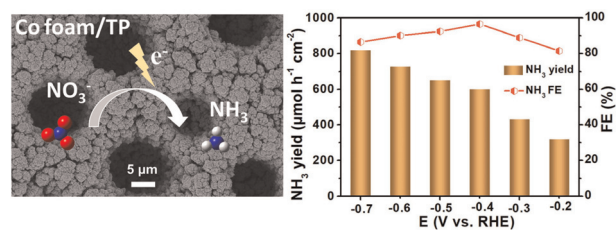


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Three-dimensional porous Co foam with nanosheets subunits for high-performance electrocatalytic nitrate-to-ammonia conversion

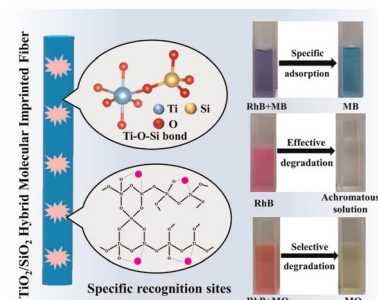
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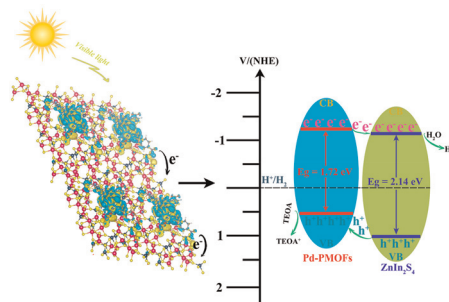
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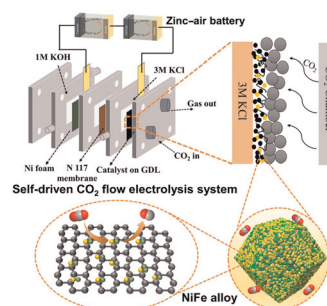
Sheng Wang, Huiyi Feng, Chenglong Zheng, Shihao Li, Shilu Fan* and Yi-Si Feng*



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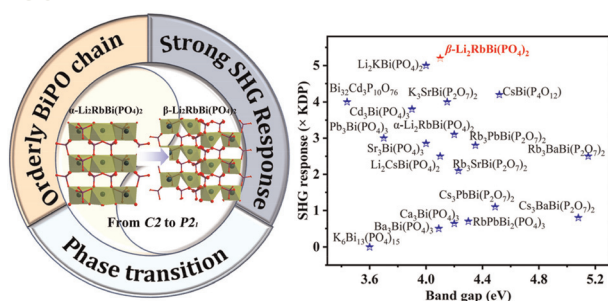
Bifunctional electroreduction catalysts of NiFe alloy on N-doped carbon toward industrial-level CO₂ conversion powered by Zn–air batteries

Songjiang Wu, Haiyan Chen, Chunguang Jia, Li Liao, Kai Chen, Suqin Ci,* Qiuhua Xu and Zhenhai Wen*



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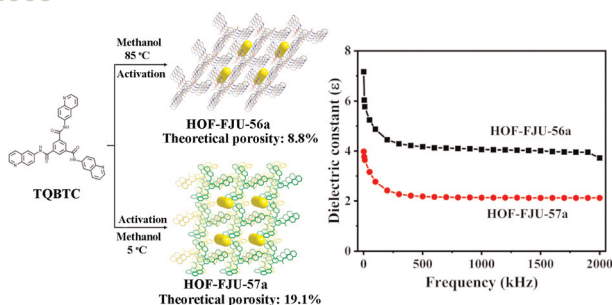
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Lei Wu, Ruixin Zhang, Qun Jing,* Hongyu Huang, Xianmeng He, Zhongchang Wang* and Zhaohui Chen*

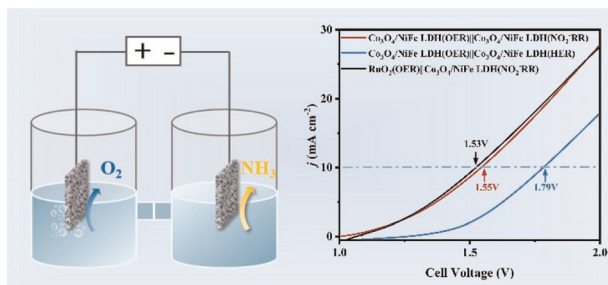
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Increasing porosity in hydrogen-bonded organic frameworks for low- κ interlayer dielectric

Yanchao Song, Shiyuan Zhu, Lizhen Liu, Shengchang Xiang, Zizhu Yao* and Zhangjing Zhang*

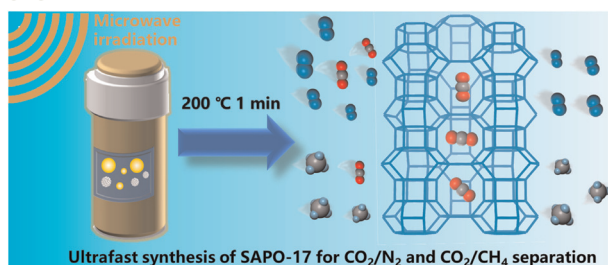
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Core-shell heterojunction engineering of Co₃O₄/NiFe LDH nanosheets as bifunctional electrocatalysts for efficient reduction of nitrite to ammonia

Yi Feng, Jin-Tao Ren, Hao-Yu Wang, Lei Wang and Zhong-Yong Yuan*

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Chaoran Wang, Xiao Li, Shiyue Liu, Tingting Wang, Puxu Liu, Xiaowei Song* and Zhiqiang Liang*

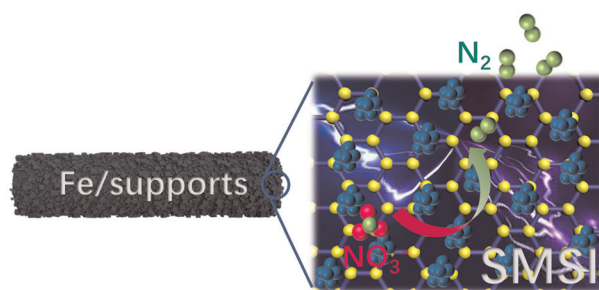


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A strong metal–support interaction strategy for enhanced binder-free electrocatalytic nitrate reduction

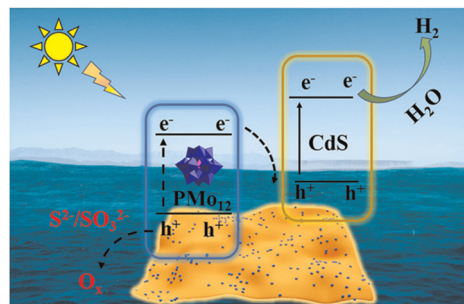
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CdS-POM nanosheets for highly efficient visible-light-driven H_2 evolution

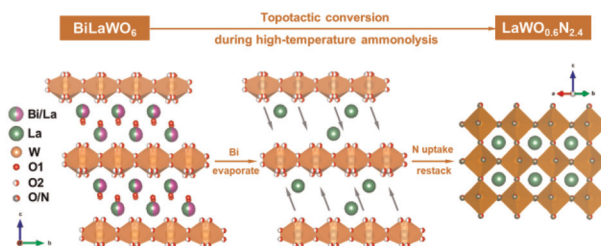
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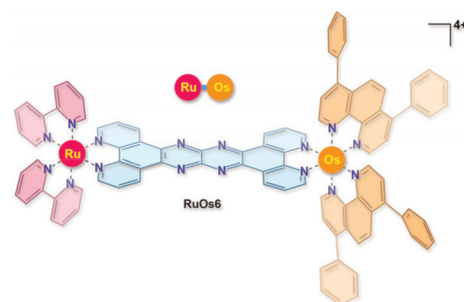
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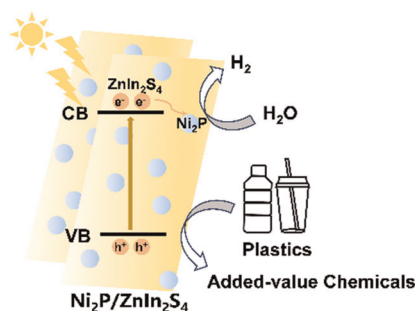
Heterometallic ruthenium–osmium complexes: dual photodynamic and photothermal therapy for melanoma and drug-resistant lung tumour *in vivo*

Yu-Ang Deng, Shi-Jie Tang, Meng-Fan Wang, Xiaoxia Ren, Xue-Lian Li, Li-Zhen Zeng, Dan-Ni Ren, Meng-Ru Wang, Wei-Lie Xiao, Zhong-Yan Cai, Dan Zhang, Hongbin Zhang and Feng Gao*



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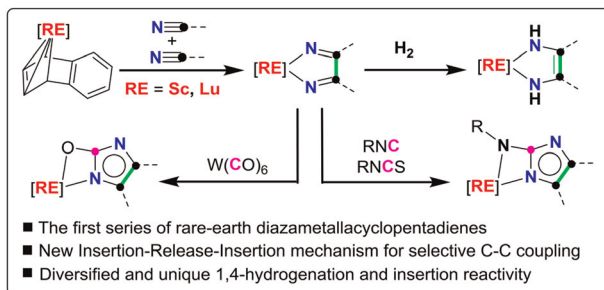
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Photoreforming of polyester plastics into added-value chemicals coupled with H_2 evolution over a $\text{Ni}_2\text{P}/\text{ZnIn}_2\text{S}_4$ catalyst

Chu-Xuan Liu, Rui Shi, Wangjing Ma, Fulai Liu* and Yong Chen*

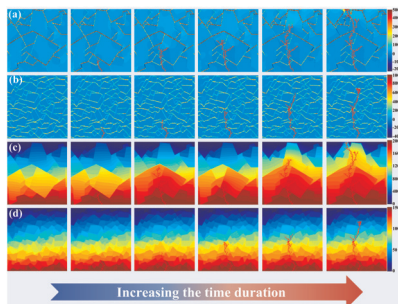
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Selective C-C coupling of two nitriles affording rare-earth diazametallacyclopentadienes: synthesis, cooperative reactivity and mechanistic studies

Miaomiao Zhu, Zhengqi Chai, Tianyu Li, Junnian Wei, Ze-Jie Lv* and Wen-Xiong Zhang*

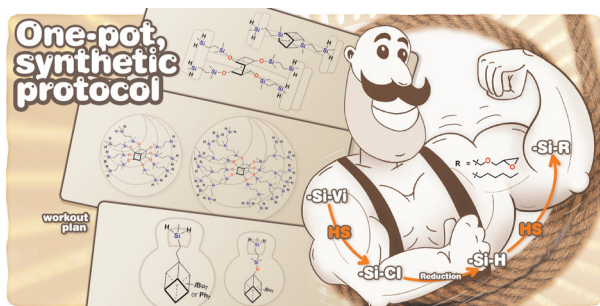
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Significantly improved energy storage performances of $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ lead-free ceramics via a composition optimization strategy

Minquan Wang, Ying Lin,* Qibin Yuan, Miao Zhang, Yiwen Yu, Fei Yan* and Haibo Yang*

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Aleksandra Mrzygłód, Rafał Januszewski, Julia Duszcza, Michał Dutkiewicz, Maciej Kubicki and Beata Dudziec*

