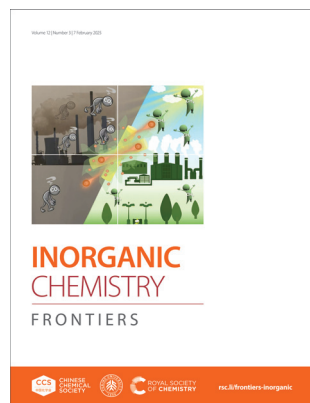


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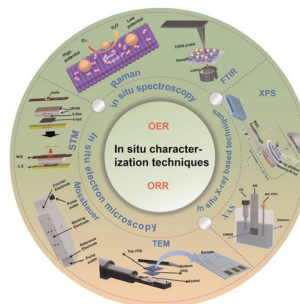
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In situ characterization techniques: main tools for revealing OER/ORR catalytic mechanism and reaction dynamics

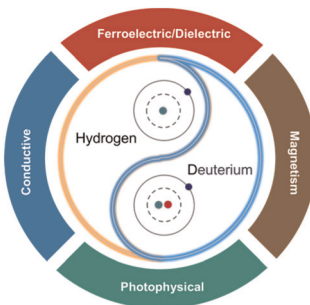
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Chengdong Liu, Zi-Shuo Yao* and Jun Tao*



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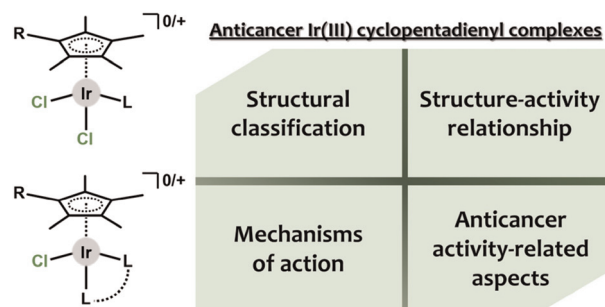


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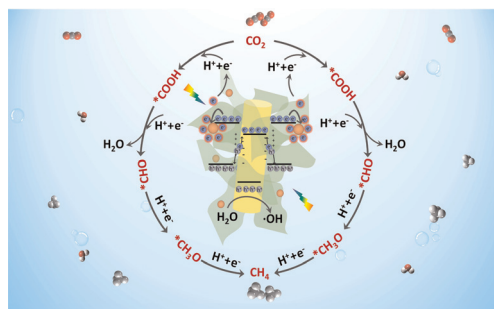


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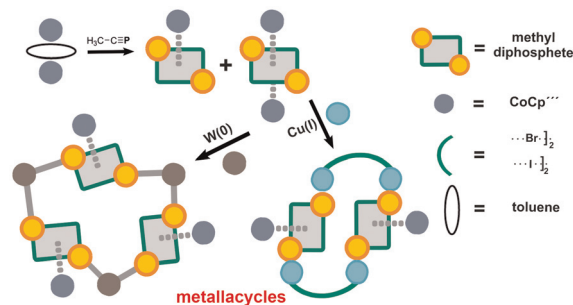
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Synthesis, oxidation and unusual coordination chemistry of the diphosphate complex [(Cp^{'''}Co)₂(μ,η^{4:4}-(CH₃CP)₂)]

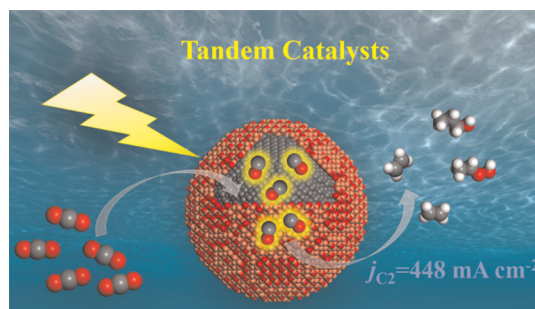
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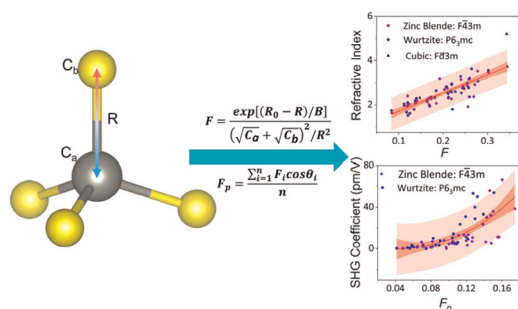
A tandem nanoreactor constructed by coating Cu₂O on the surface of single-atom catalyst Ni-NC₃ for electroreduction of CO₂ to C₂ products

Cheng-Peng Liang, Jia-Run Huang, Pei-Qin Liao* and Xiao-Ming Chen*



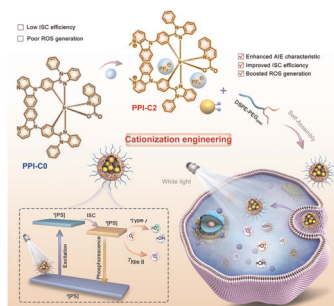
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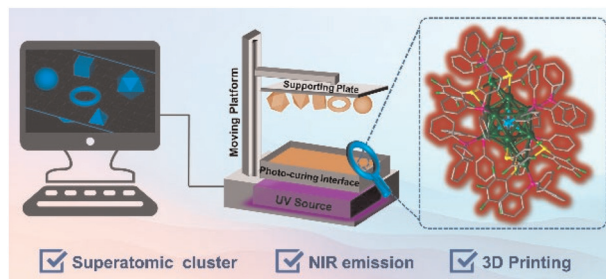
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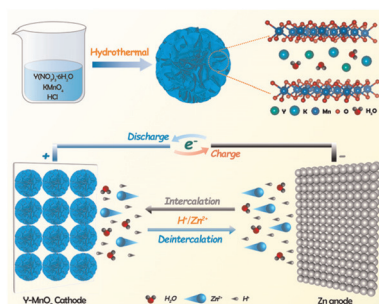
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Jianwei Wang, Kangning Wang,* Wenlin Zhang, Jinbo Zhang, Yanzhong Zhen, Feng Fu and Yaping Du*

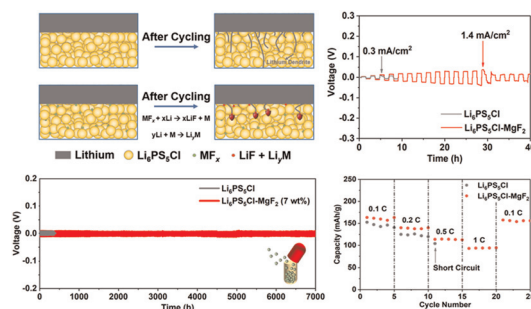


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***In situ* conversion reaction of magnesium fluoride to boost the performance of the sulfide-based electrolyte $\text{Li}_6\text{PS}_5\text{Cl}$ for all-solid-state lithium metal batteries**

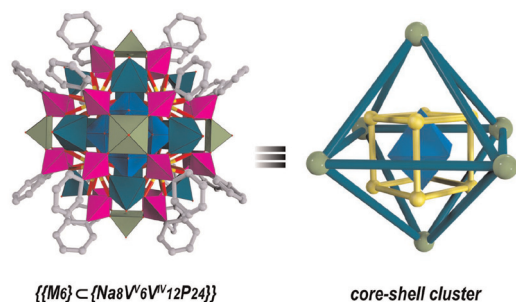
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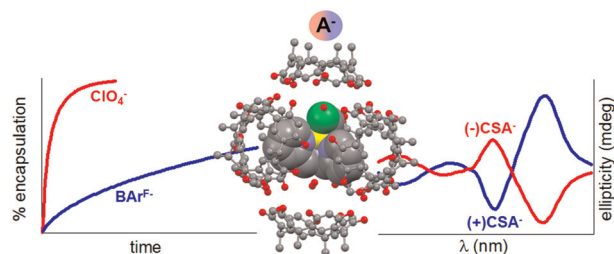
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Anion-mediated properties of a metal complex in a hexameric resorcin[4]arene cage: chirality induction, kinetics and reactivity

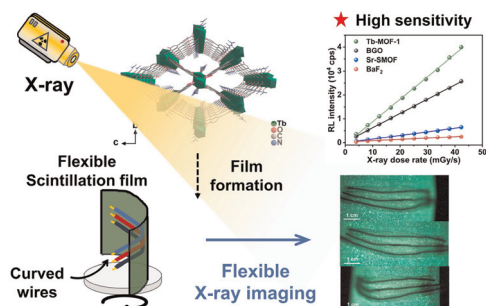
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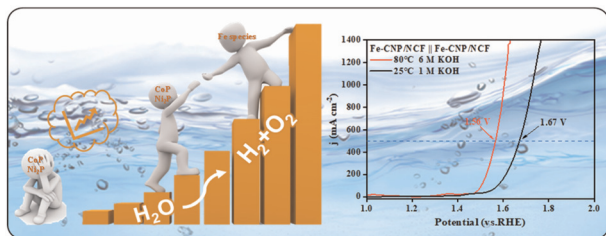
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Peng-Kun Wang, Wen-Fei Wang, Bao-Yi Li, Rui-Xuan Qian, Zhao-Xing Gao, Shuai-Hua Wang,* Fa-Kun Zheng* and Guo-Cong Guo*



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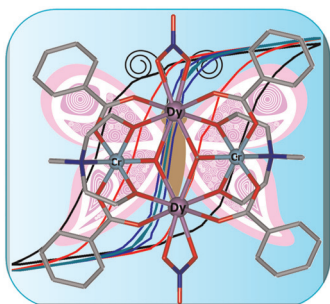
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Self-derived, high-mechanical-strength polymetallic phosphides microsheet heterostructures for industrial-scale high-current-density water-splitting

Jing Jin, Feng Chen, Xinyu Hu, Jiashuai Zhang, Li Hou,* Wenwei Lei and Faming Gao*

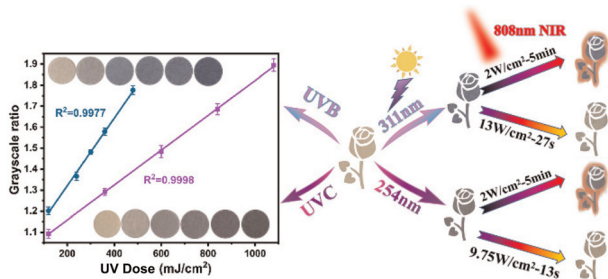
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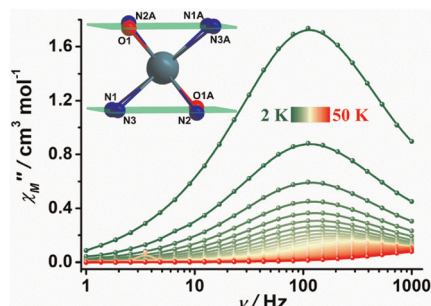
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Wavelength-selective duotone single-component photochromic gallophosphate-oxalate with multidirectional UVB/UVC/NIR photoswitch electron transfer

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A high-performance dysprosium single-ion magnet with local pseudo cubic geometry

Yanbo Shi, Chennan Zhang, Mingyue Shi, Yang Zhou, Hong Li, Rui Liu, Shaojun Zheng, Aihua Yuan, Lei Chen,* Shu-Yang Chen,* Bing Yin* and Zhao-Bo Hu*

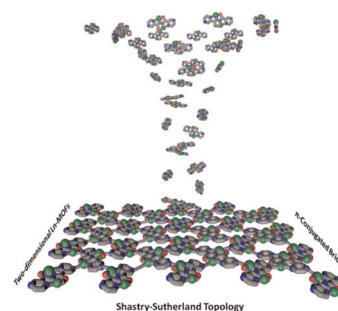


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The Shastry–Sutherland lattice in two-dimensional magnetic lanthanide metal–organic frameworks

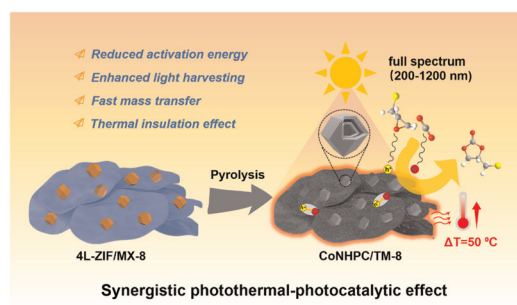
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High-efficiency photodriven coupling of CO₂ and various epoxides via a multi-shelled hollow ZIF/MXene derived composite with low activation energy

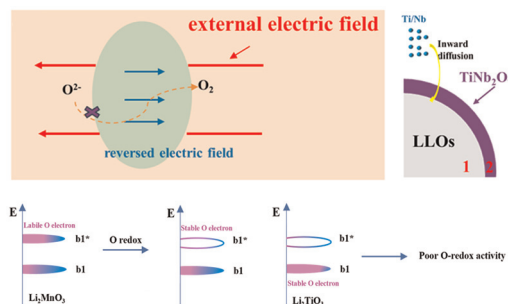
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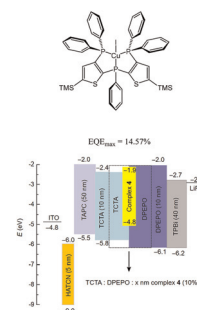
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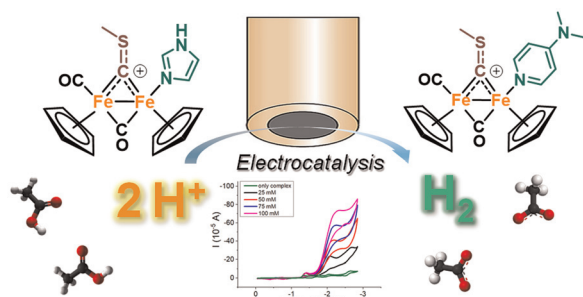
High-performance TADF-OLEDs utilizing copper(I) halide complexes containing unsymmetrically substituted thiophenyl triphosphine ligands

Yu-Ling Liu, Ruiqin Zhu, Li Liu,* Xin-Xin Zhong,* Fa-Bao Li,* Guijiang Zhou* and Hai-Mei Qin



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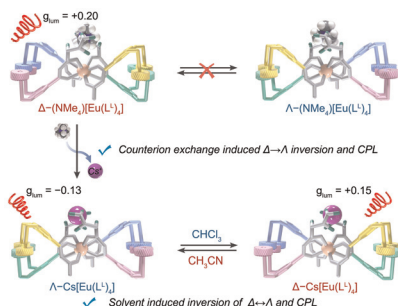
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Effective electrocatalysts for hydrogen production from acetic acid by screening of monodentate ligands in cationic diiron hetero-carbyne complexes

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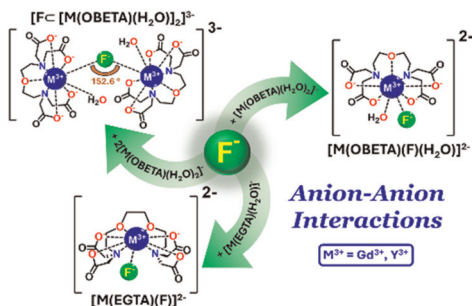
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Solvent and counterion cooperatively induced inversion of the stereocenter Δ/Λ and CPL in a mononuclear Eu(III) complex

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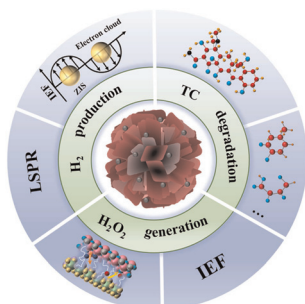
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Fluoride binding in unlikely partners: the formation of anion-anion complexes with $[M(EGTA)]^-$ and $[M(OBETA)]^-$ ($M = Gd^{3+}, Y^{3+}$)

Lorenzo Risolo, Marco Ricci, Daniela Lalli,*
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Dual electron transfer path and LSPR photothermal enhancement in BiOCl@ZnIn₂S₄ heterojunction for enhanced photocatalytic H₂ evolution, H₂O₂ production and tetracycline removal

Fan Wu, Guangyu Wu,* Yonggong Tang, Yuwei Pan,
Jiangang Han, Jin Zhang, Weinan Xing and
Yudong Huang

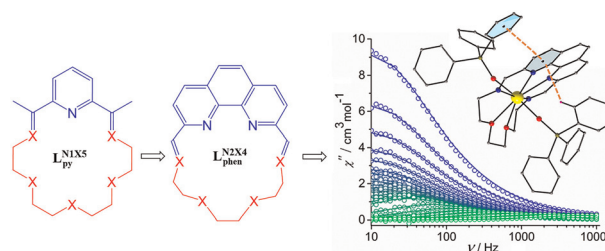


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'Kick-in the head': high-performance and air-stable mononuclear Dy^{III} single-molecule magnets with *pseudo-D*_{6h} symmetry from a [1 + 1] Schiff-base macrocycle approach

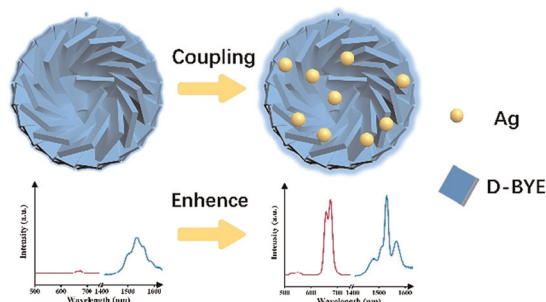
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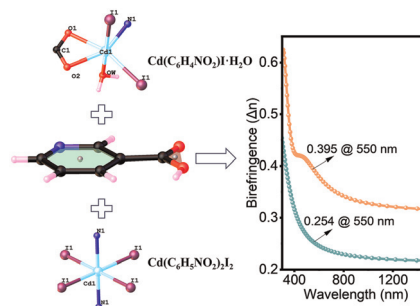
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Strategically designed anisotropic organic–inorganic metal halides (OIMHs) with superior balance between bandgap and birefringence

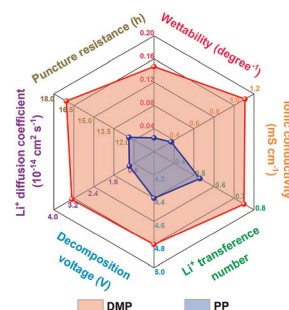
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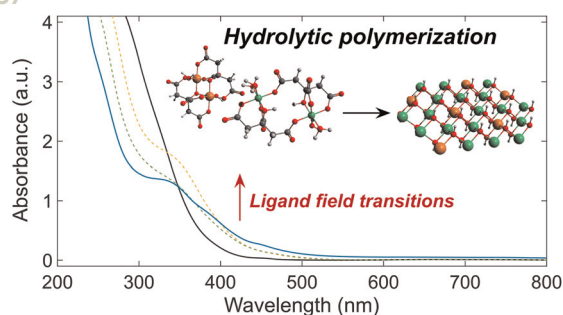
An ingenious double-modified strategy to prepare a "hexagonal warrior" separator for lithium metal batteries

Shitong Sun, Bo Jin,* Hui Liu and Qing Jiang



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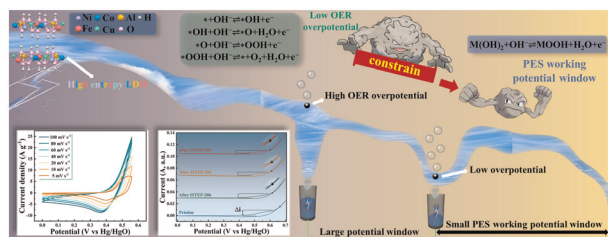
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Aqueous phase synthesis and electronic spectroscopy of nanostructured layered double hydroxides

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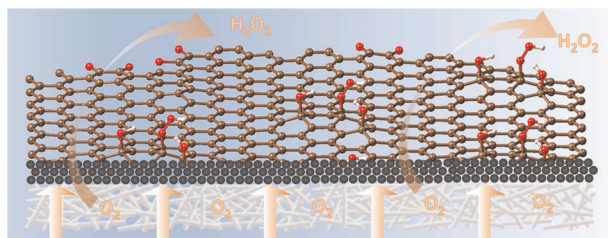
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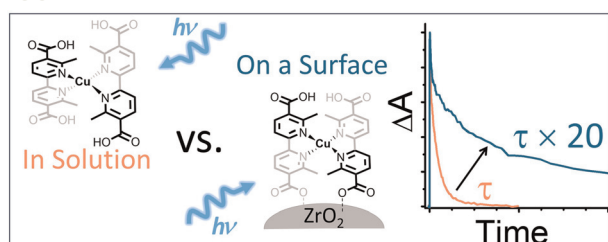
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Simultaneous synthesis of oxygen doped carbon electrodes at the anode and cathode via potential cycling for promoted H₂O₂ electroynthesis

Suhua Mao, Xin Li, Bingshuang Li, Jin Li and Xiaoxi Huang*

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Increasing excited state lifetimes of Cu(I) coordination complexes via strategic surface binding

Jiaqi Chen, Henry C. London, Dhruva Pattadar, Charlotte Worster, Sahar R. Salpage, Elena Jakubikova,* S. Scott Saavedra* and Kenneth Hanson*



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Cluster-like Mo₂N anchored on reduced graphene oxide as an efficient and high-performance catalyst for deep-degree oxidative desulfurization

Weizhuang Song, Dongxu Wang,* Xianyun Yue, Chengxu Jin, Yangchen Wu, Yu Shi, Jiancong Liu, Aiping Wu, Chungui Tian* and Honggang Fu*

