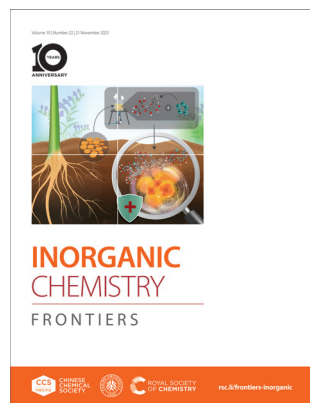


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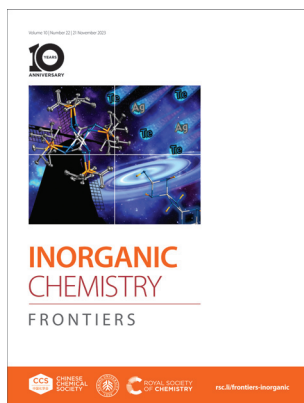
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Cover

See Liang Peng, Zhimin Li et al., pp. 6506–6518.

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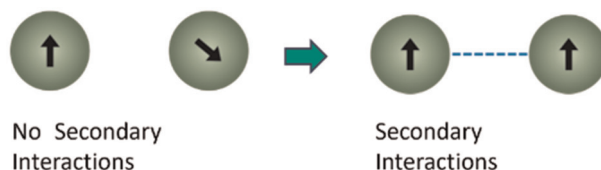
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The importance of second sphere interactions on single molecule magnet performance

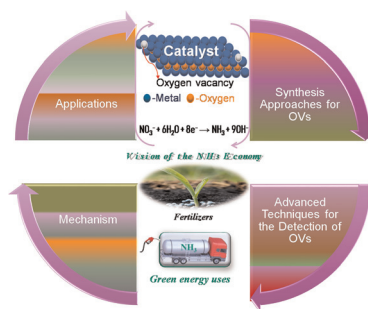
Brodie E. Matheson, Tyson N. Dais, Marryllyn E. Donaldson, Gareth J. Rowlands and Paul G. Plieger*



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Investigating the role of oxygen vacancies in metal oxide for enhanced electrochemical reduction of NO_3^- to NH_3 : mechanistic insights

Sadeeq Ullah, Shiyong Wang, Muhammad Sohail Ahmad, Hafiz M. Adeel Sharif, Qingling Liu, Tetsuya Kida, Aamir Shafique, Majeed Ur Rehman, Gang Wang* and Jieshan Qiu*



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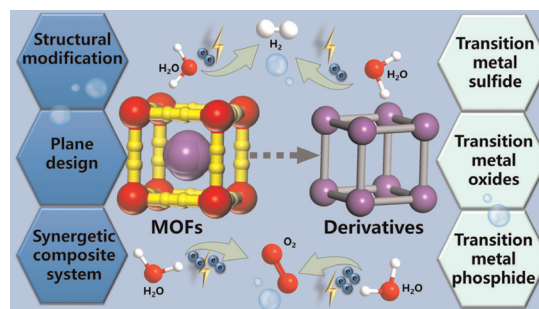


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Current progress in metal–organic frameworks and their derivatives for electrocatalytic water splitting

Yujung Chen, Peisen Liao,* Kehan Jin, Yun Zheng, Huaiyu Shao and Guangqin Li*

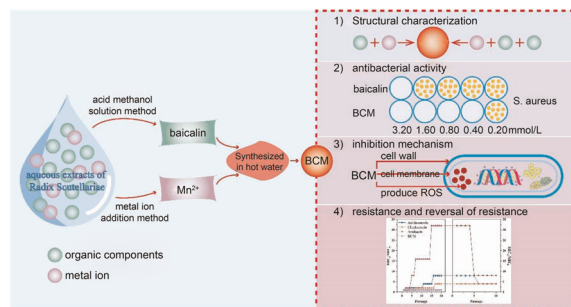


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Discovery of metal complexes with antibacterial properties in aqueous extracts of *Radix scutellariae* and a study of the antibacterial properties of the baicalin–manganese complex

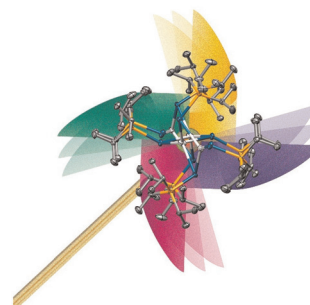
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Unravelling the role of triisopropylphosphane telluride in Ag(I) complexes

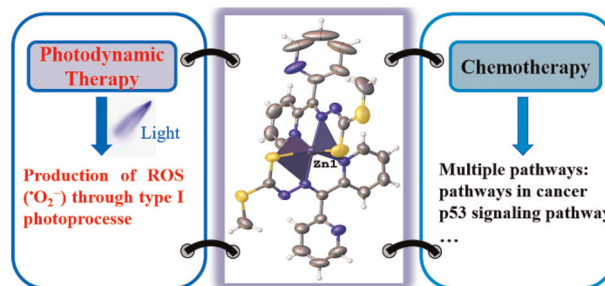
Juan Carlos Pérez-Sánchez, Carmen Ceamanos, Raquel P. Herrera and M. Concepción Gimeno*



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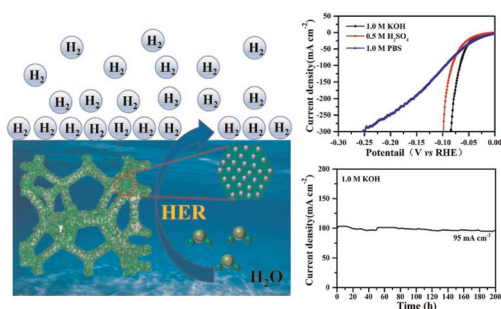
Dithiocarbazate–Zn(II) complexes for photodynamic therapy and chemotherapy against lung cancer

JunGang Deng, YouRu Wu, AiLi Li, WeiPing Pan, LiXia Hou, DaQi Wu, ZhenLei Zhang, Feng Yang* and Yi Gou*



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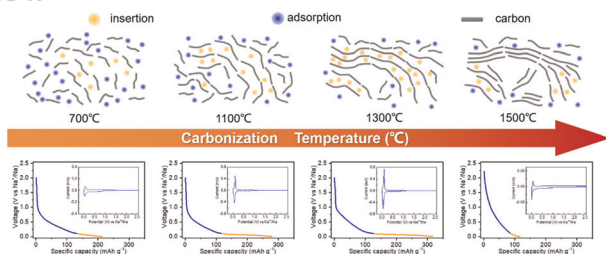
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Highly dispersed ultra-small RuO₂ nanoparticles on NiO nanosheet arrays as efficient pH-universal hydrogen evolution electrocatalysts

Dongdong Du, Yiyun Du, Yongjun Feng, Dianqing Li* and Pinggui Tang*

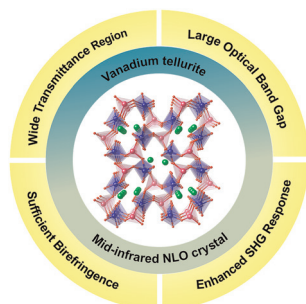
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Huilan Sun, Qiaoyan Zhang, Fei Yuan, Di Zhang, Zhaojin Li, Qiujun Wang, Huan Wang* and Bo Wang*

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Yuheng She, Jinmiao Jiao, Zheng Wang, Jing Chai, Song Jie, Ning Ye, Zhanggui Hu, Yicheng Wu and Conggang Li*

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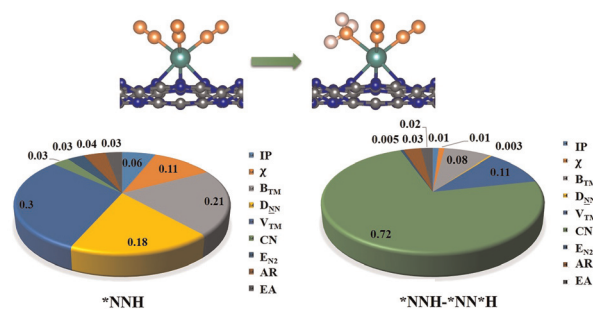


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Self-promoted ammonia selectivity for the electro-reduction of nitrogen on *gt*-C₃N₄ supported single metal catalysts: the machine learning model and physical insights

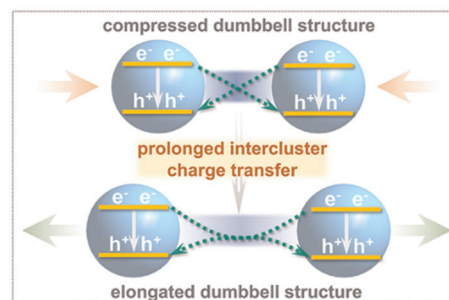
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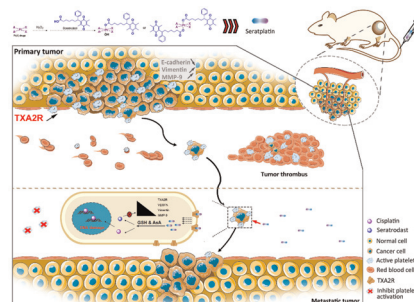
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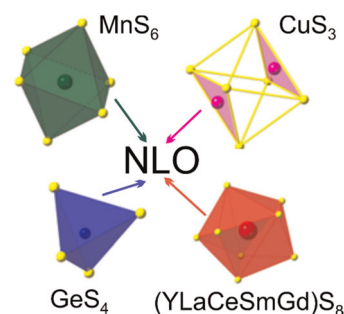
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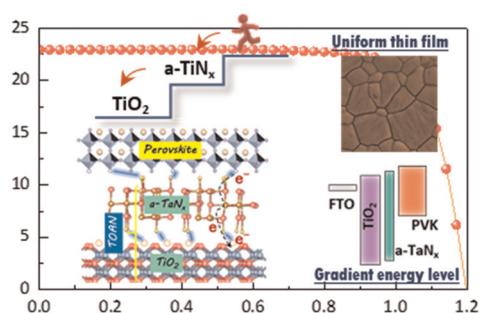
Synthesis of chiral high-entropy sulfides for non-linear optical applications

Nethmi W. Hewage, Gayatri Viswanathan, Philip Yox,
Kui Wu, Kirill Kovnir* and Georgiy Akopov*



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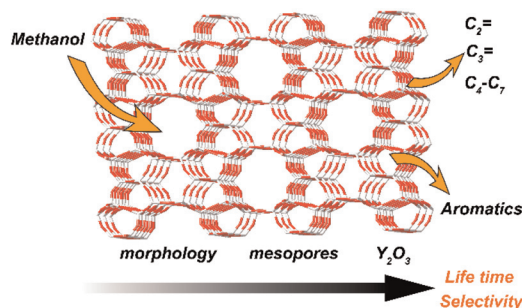
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Developing a gradient titanium dioxide/amorphous tantalum nitride electron transporting layer for efficient and stable perovskite solar cells

Yue Gou, Haoyan Wang, Yutao Li, Chenyu Zhao, Lin Fan, Maobin Wei, Huilian Liu, Jinghai Yang, Fengyou Wang* and Lili Yang*

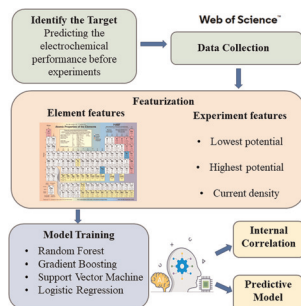
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Maximizing the catalytic performance of FER zeolite in the methanol-to-hydrocarbon process by manipulating the crystal size and constructing a bifunctional system

Xin Zhang, Hexun Zhou, Yiru Ye, Xinyu You, Xue Zhou, Shican Jiang, Kun Liu and Abhishek Dutta Chowdhury*

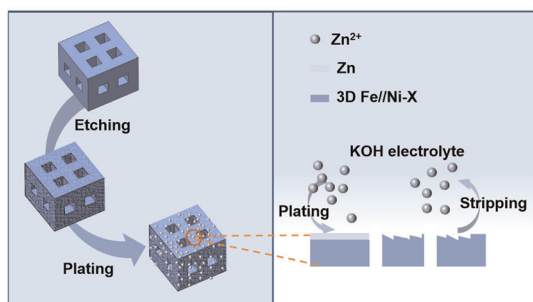
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A data-driven interpretable method to predict capacities of metal ion doped TiO₂ anode materials for lithium-ion batteries using machine learning classifiers

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Chuancheng Mou, Yujia Bai, Yi Zhang, Yijian Liu, Zhen Hu, Jiayu Chen, Genxiang Wang, Xuantao Wu, Hui Wang* and Yuhan Sun*

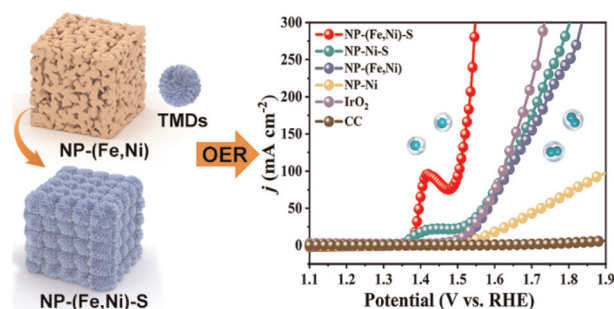


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Multi-interface engineering of NiS/Ni₃S₂/Fe₃O₄ nanoarchitectures for use as high-efficiency electrocatalysts toward the oxygen evolution reaction

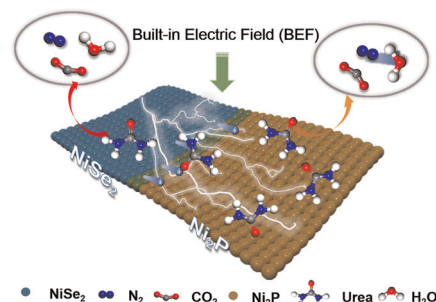
Chengcheng Li, Anyang Bao, Cuizhen Yang, Guoqiang Liu, Xiang Chen, Mengyue Li, Yuwen Cheng and Dongming Liu*



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Built-in electric field induced interfacial charge distributions of Ni₂P/NiSe₂ heterojunction for urea-assisted hydrogen evolution reaction

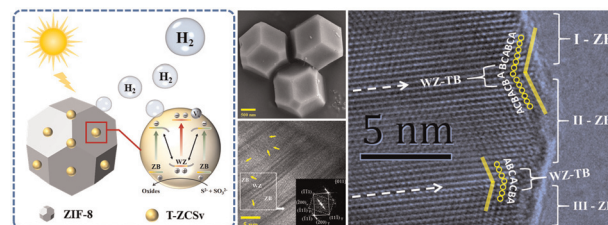
Yiqiang Sun, Wenwen Cao, Xuening Ge, Xiaodong Yang, Yong Wang, Yuan Xu, Bo Ouyang,* Qi Shen* and Cuncheng Li*



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Synergetic microstructure engineering by induced ZB/WZ twin boundaries and S vacancies in a Zn_{0.5}Cd_{0.5}S-based S-scheme photocatalyst for highly efficient photocatalytic hydrogen production

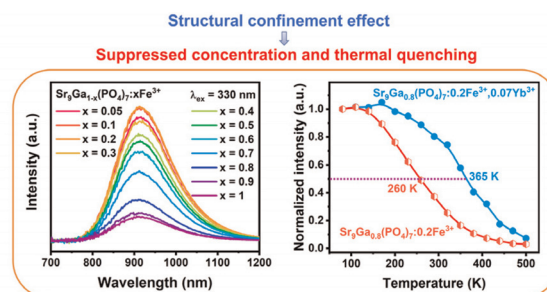
Yuhao Zhang, Dingze Lu,* Zhennan Wang, Min Zhou, Kiran Kumar Kondamareddy,* Jing Li, Huiqing Fan, Dezhong Cao and Wingkei Ho*



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Structural confinement toward suppressing concentration and thermal quenching for improving near-infrared luminescence of Fe³⁺

Fangyi Zhao, Yuhe Shao, Zhen Song* and Quanlin Liu*



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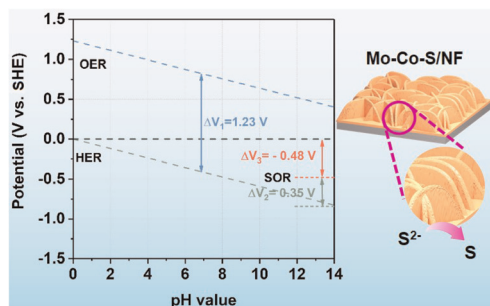
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A hydrolytically stable oxo-rhenium(v) antitumor agent for synergistic combination therapy with cisplatin: from synthesis and mechanistic studies to toxicity assessment in zebrafish

Shreyas P. Vaidya, Manikandan M, Sushanta Chhatar, Saurabh Dey, Chinmoy Patra and Malay Patra*

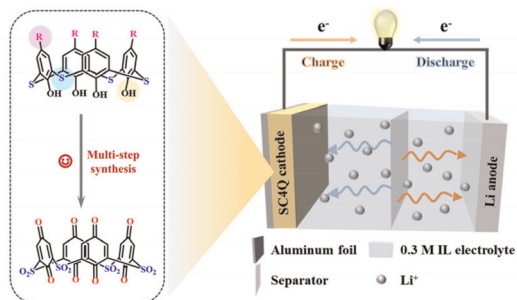
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Mo-doped cobaltous sulfide nanosheet arrays as efficient catalysts for the sulfion oxidation reaction promoting hydrogen production with ultra-low electric energy consumption

Xiangmin Tang, Yang Zhang, Fangfang Wu, Bing Li, Jiexue Wang, Xiaoqin Li, Ruihua Rao, Jiapeng Hu,* Dan Xiao* and Taotao Gao*

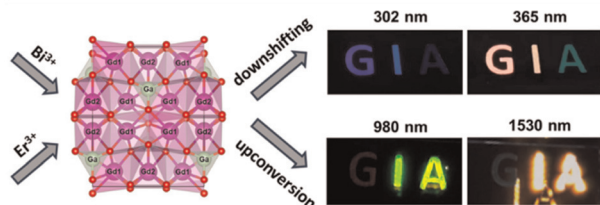
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Meng Zhang, Yilin Lin and Weiwei Huang*

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Site occupation and upconversion process enabled multicolor emission in a $\text{Gd}_3\text{GaO}_6:\text{Bi}^{3+},\text{Er}^{3+}$ phosphor for quad-mode anti-counterfeiting

Zhijun Li, Zeyu Lyu,* Pengcheng Luo, Shuai Wei, Chengyu Zhuo, Dashuai Sun, Sida Shen and Hongpeng You*

