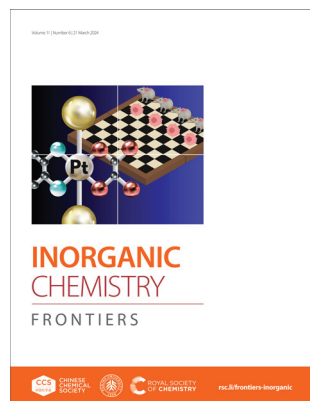


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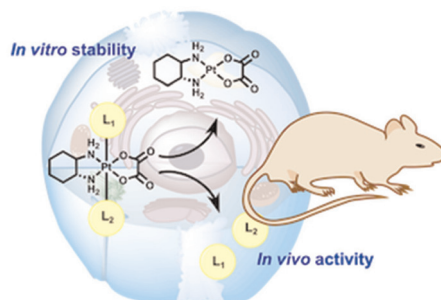
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Pt(IV) anticancer prodrugs bearing an oxaliplatin scaffold: what do we know about their bioactivity?

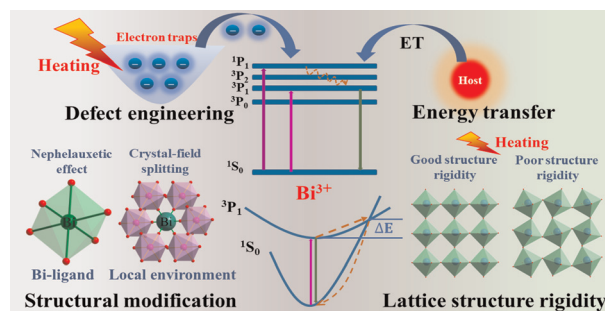
Alvaro Lopez-Sanchez and Helene C. Bertrand*



1668

Recent progress on modulating luminescence thermal quenching properties of Bi³⁺-activated phosphors

Xiang Lv, Ran Xiao, Jianxia Liu, Chunwei Yang, Yanmei Xin and Ning Guo*



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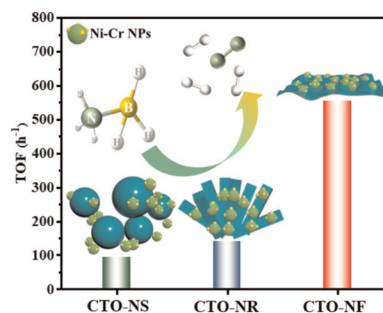
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1683

Hydrogen production from complete dehydrogenation of hydrazine borane on carbon-doped TiO₂-supported NiCr catalysts

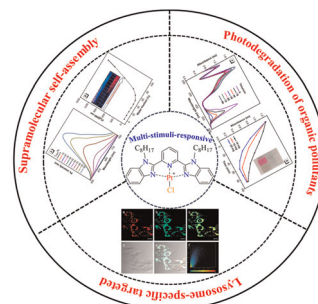
Xiaolei Zhang, Qilu Yao,* Yuzhao Wang, Mengying Liu and Zhang-Hui Lu*



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Exploring multi-stimuli-responsive Pt(II) complexes: supramolecular self-assembly, lysosome-specific targeted photodynamic therapy and photodegradation of organic pollutants

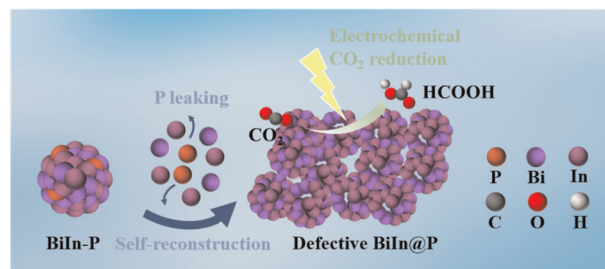
Hui Ding, Xiepeng Deng, Xiang Liu, Wenzhao Shang, Xianchao Du,* Sufan Wang, Xia Liu, Xiangrong Chen, Hongjian Liu* and Huifang Su*



1703

A defective bismuth–indium catalyst promotes water dissociation for selective carbon dioxide electroreduction to HCOOH

Jieshu Zhou, Liming Li, Hangxing Ren, Haibin Wang, Yong Li, Kangning Liu, Liang Huang, Xinyao Yang, Zhen Hao, Yuguang Zhang, Zhichao Wang, Xi Wang, Jian Ding, Yuping Ji, Li Wang and Hongyan Liang*



1710

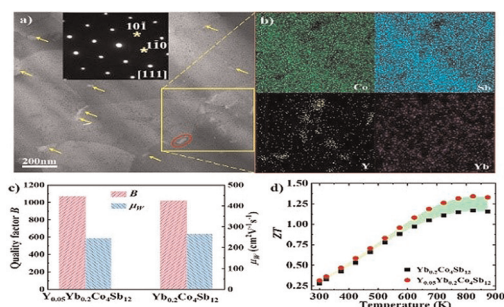
Boosting the high rate and durability of lithium–sulfur batteries using a bidirectional catalyst of a polyoxometalate-cyclodextrin supramolecular compound

Jian Song, Yuanyuan Jiang, Yizhong Lu,* Yundong Cao, Yuxi Zhang, Linlin Fan,* Hong Liu and Guanggang Gao*



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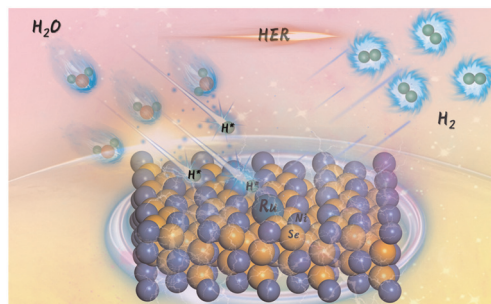
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Boosting the thermoelectric performance of Yb-filled skutterudites through the incorporation of YSb nanoprecipitates

Dandan Qin,* Wenjing Shi, Xin Wang, Cunlei Zou, Chun Shang, Xiangcheng Cui, Huijun Kang, Yunzhuo Lu* and Jiehe Sui*

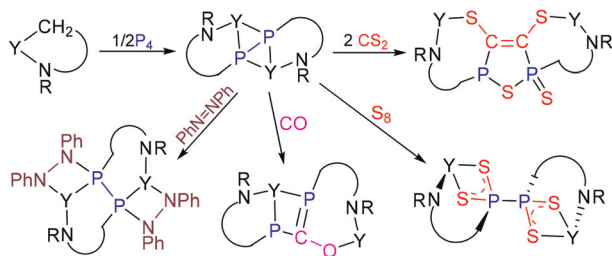
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High-density accessible Ru–Se–Ni moieties boost the hydrogen evolution reaction by optimizing H absorption

Shuang Ma, Peiying Yang, Jin Chang, Heng Zhang,* Mengjing Li, Siqi Zhang, Jiafang Liu,* Fanghan Wang, Chuan Cheng, Ao Zhou and Qingbin Li*

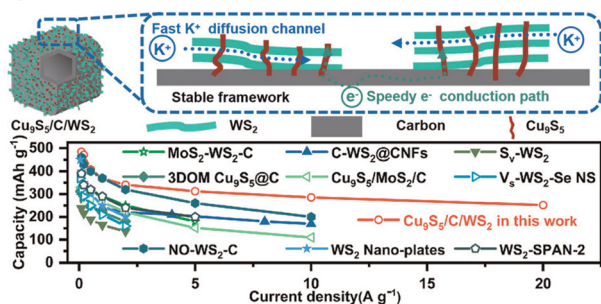
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Straightforward construction of a rare-earth diphosphanato complex from white phosphorus: synthesis and reactivity

Fangjun Zhang, Iker del Rosal, Keyu Han, Jie Zhang,* Laurent Maron* and Xigeng Zhou*

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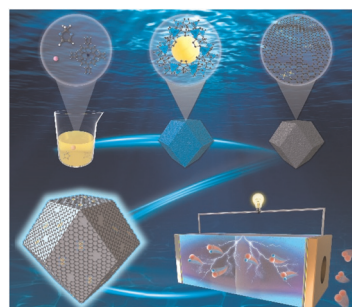


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Deriving paired Fe sites on N-doped carbon from Fe(III)-tetrapyrridinylporphyrin-modified ZIF-8: robust electrocatalysts for air electrodes in zinc–air batteries

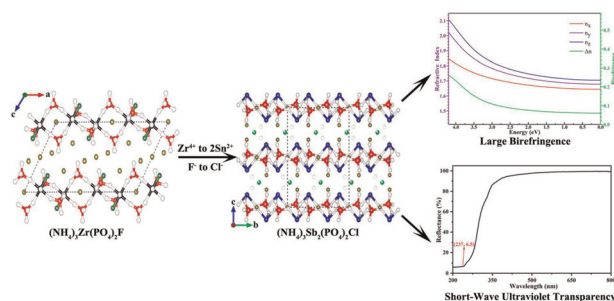
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From $(\text{NH}_4)_3[\text{Zr}(\text{PO}_4)_2\text{F}]$ to $(\text{NH}_4)_3[\text{Sn}_2(\text{PO}_4)_2]\text{Cl}$: the rational design of a tin-based short-wave ultra-violet phosphate with large optical anisotropy

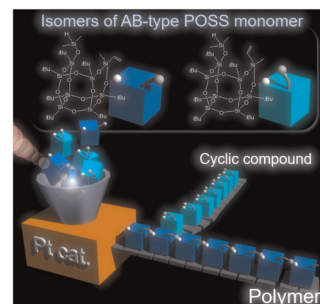
Zhi Fang, Wen-Hua Ma, Qiu-Yu Chen, Xin-Ting Zhu, Xin-Mei Zeng, Pei-Bei Li, Qian-Fen Zhou, Ting-Ting Song and Mei-Hong Duan*



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AB-type monomer of polyhedral oligomeric silsesquioxane

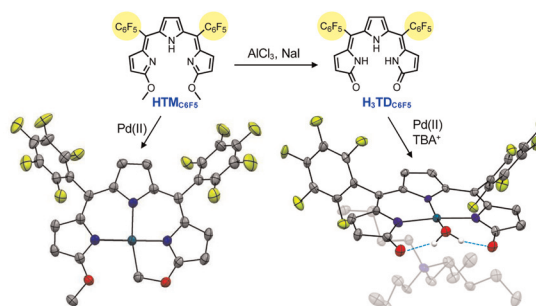
Taishi Nakano, Hiroaki Imoto* and Kensuke Naka*



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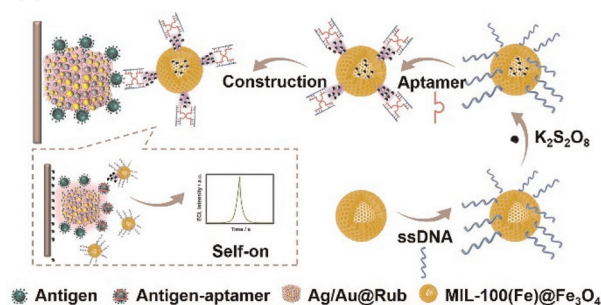
meso-Aryl substituents modify the electro-chemical profile and palladium(II) coordination of redox-active tripyrrin ligands

Iva Habenšus and Elisa Tomat*



RESEARCH ARTICLES

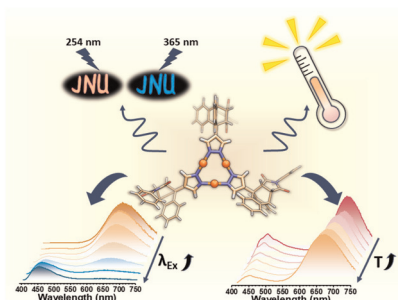
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Multiple signal amplification strategy using porous materials and novel controlled release self-on mode for ultrasensitive immunoassay

Lu Zhao, Xuejing Liu, Xiang Ren, Zhongfeng Gao, Hongmin Ma, Dan Wu,* Qin Wei and Huangxian Ju

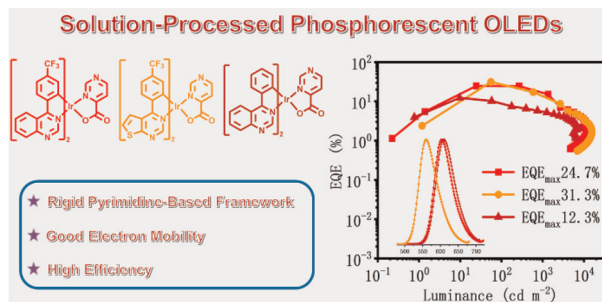
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A fluorescence-phosphorescence dual-emissive Cu₃(pyrazolate)₃ complex with highly tunable emission colours for anticounterfeiting and temperature sensing

Ze-Miao Xiao, Jing-Xuan Yang, Xu Chen, Wen-Jing Tang, Su-Kao Peng, De-Bo Hao, Ze-Peng Zhao, Ji Zheng* and Dan Li*

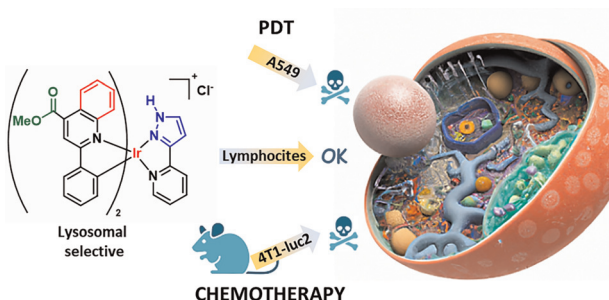
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Orange to red iridium(III) complexes possessing good electron mobility with a pyrimidine-4-carboxylic acid ligand for high-performance solution-processed OLEDs with an EQE over 31%

Tao Han, Yan Zhang, Xin-yu Zhang, Yu-qiao Tong, Ming-yu Teng,* Chong-yang Shi,* Long-wu Ye, Zhao Chen,* Shuo-qi Sun and Guangzhao Lu*

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Synthetic ease and exceptional *in vivo* performance of pyrazole-based cyclometallated iridium complexes

Marta Redrado, Eduardo Romanos, Andrea Benedi, Guillermo Canudo-Barreras, Isabel Marzo, M. Concepción Gimeno* and Vanesa Fernández-Moreira*

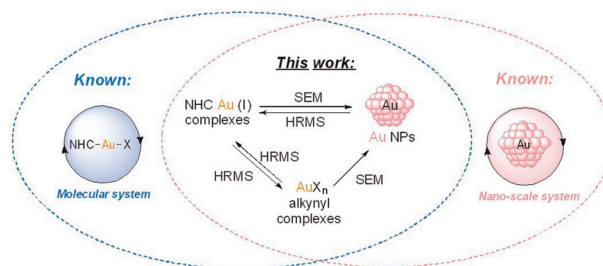


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Unraveling the transformative pathways of Au-NHC and Au-alkynyl complexes and bridging the gap between molecular and nanoscale gold systems

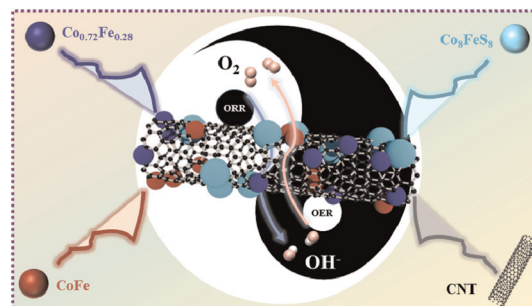
Mariya V. Grudova, Alexey S. Galushko, Valentina V. Ilyushenkova, Mikhail E. Minyaev, Artem N. Fakhrutdinov, Darya O. Prima and Valentine P. Ananikov*



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CoFe formic-acid framework derived S, N co-doped carbon nanotube composites decorated with a bimetallic sulfide as a bifunctional electrocatalyst for rechargeable zinc–air batteries

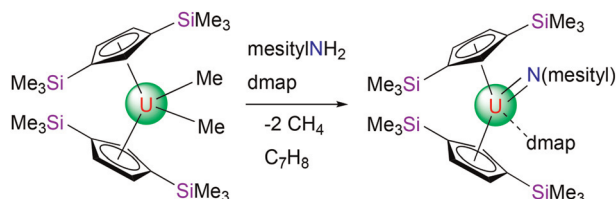
Qihao Wu, Tao Xie, Li Zhang,* Heju Gao, Jiahui Jiang, Ting Zhao and Guancheng Xu*



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Investigating the reactivity of a Lewis base-supported terminal uranium imido metallocene

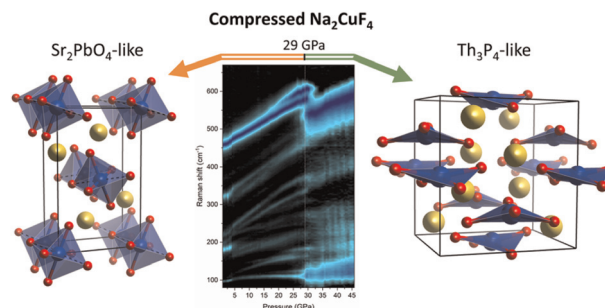
Yi Heng, Tongyu Li, Dongwei Wang, Guofu Zi* and Marc D. Walter*



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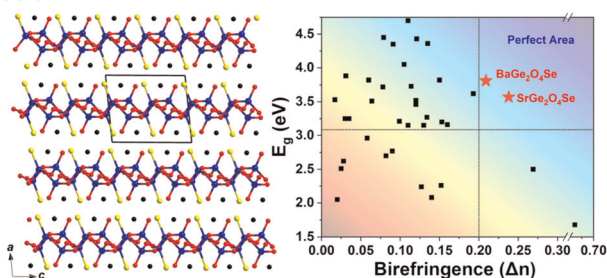
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Deepak Upadhyay, Sharad Babu Pillai, Jakub Drapała, Zoran Mazej and Dominik Kurzydowski*



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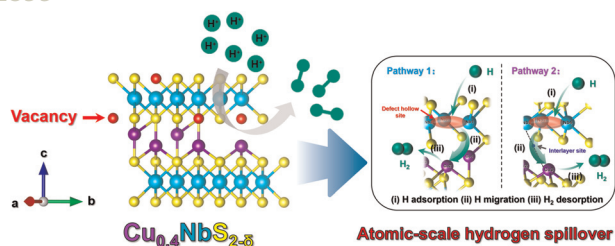
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Partial substitution with a significant effect: coexistence of a wide band gap and large birefringence in the oxychalcogenide $\text{AEGe}_2\text{O}_4\text{Se}$ (AE = Sr and Ba)

Mao-Yin Ran, Sheng-Hua Zhou, Wen-Bo Wei, A-Yang Wang, Xin-Tao Wu, Hua Lin* and Qi-Long Zhu*

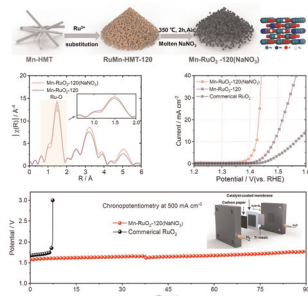
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Cu intercalation and defect engineering realize an atomic-scale hydrogen spillover effect in NbS_2 to boost acidic hydrogen evolution

Haoyu Yue, Zhongnan Guo,* Jiaqi Fan, Pu Wang, Shuang Zhen and Wenxia Yuan*

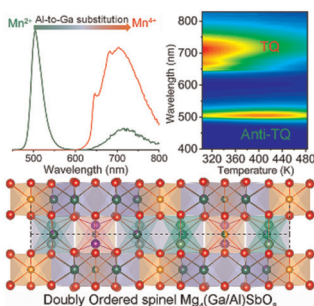
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Mn-doped RuO_2 nanocrystals with abundant oxygen vacancies for enhanced oxygen evolution in acidic media

Caixia Zheng, Bing Huang, Xuwei Liu, Hao Wang and Lunhui Guan*

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Structure and photoluminescence of $\text{Mn}^{2+/4+}$ -activated doubly ordered spinel $\text{Mg}_4(\text{Ga}/\text{Al})\text{SbO}_8$: site-selective Al^{3+} -to- Ga^{3+} substitution enabling Mn^{4+} accumulation, excellent anti-thermal quenching of Mn^{2+} green emission, and optical thermometry

Zien Cheng, Guangxiang Lu, Yuxuan Qi, Jinmei Huang, Gonggui Yan, Leiming Fang, Maxim Avdeev,* Tao Yang* and Pengfei Jiang*

