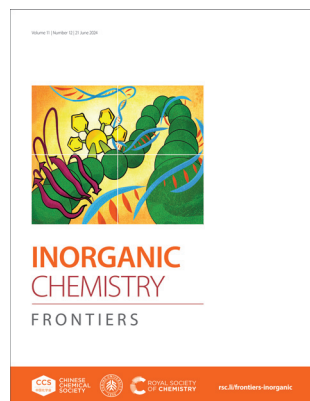


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Cover

See Jing Wang, Chung-Hang Leung, Wanhe Wang *et al.*, pp. 3400–3417.

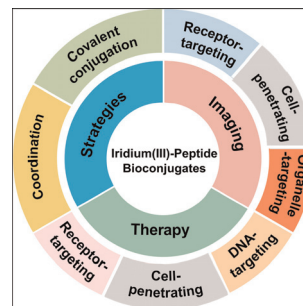
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REVIEW

3400

Luminescent iridium(III)–peptide bioconjugates for bioanalytical and biomedical applications

Shaozhen Jing, Xiaolei Wu, Daniel Shiu-Hin Chan, Sang-Cuo Nao, Jianxiong Du, Chun-Yuen Wong, Jing Wang,* Chung-Hang Leung* and Wanhe Wang*

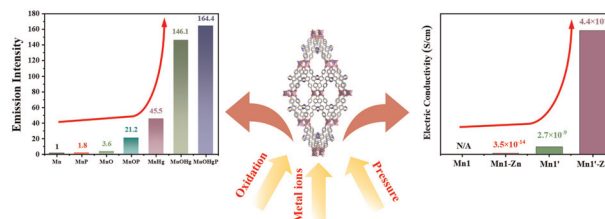


RESEARCH ARTICLES

3418

Magnifying the turn-on luminescence and electrical conductivity via the coupling effect of oxidation, metal ion adhesion and pressure within Mn^{II}-MOFs

Ting-chang Shi, Zhi-hui Li, Zhiyue Dong, Ming-Hua Zeng* and Hai-Bing Xu*



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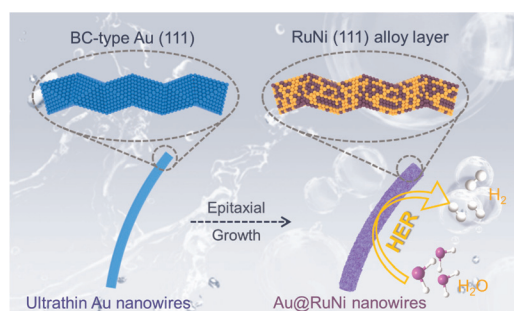


RESEARCH ARTICLES

3426

Ultrathin core–shell Au@RuNi nanowires for superior electrocatalytic hydrogen evolution

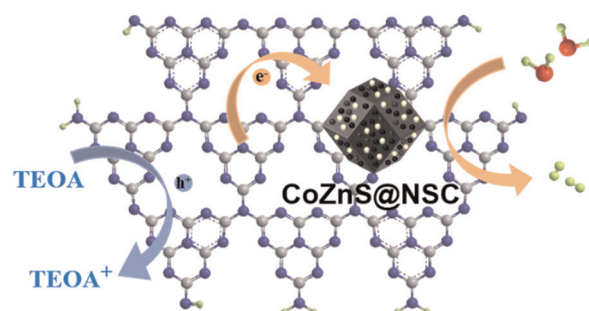
Xian Jiang, Xianzi Wei, Mushun Chen, Chuankai Fu, Yufei Wang, Caikang Wang, Hao Sun,* Juan Zhou* and Yawen Tang*



3435

A bimetallic CoZn metal–organic-framework derived CoZnS@NSC Co-catalyst loaded on g-C₃N₄ for significantly augmented photocatalytic H₂ evolution

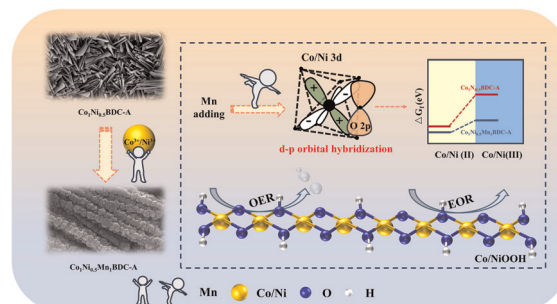
Xiao-Jie Lu, Ikram Ullah, Jing-Han Li, Shuai Chen, Cheng-Zong Yuan and An-Wu Xu*



3446

High ratios of Ni³⁺ and Co³⁺ facilitated by Mn-addition for enhanced oxygen evolution reaction and ethanol oxidation reaction

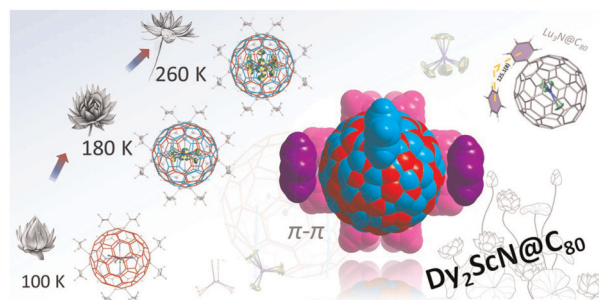
Yi-Nuo Zhen, Ruo-Yao Fan, Xin-Yin Jiang, Ning Yu, Yong-Ming Chai* and Bin Dong*



3458

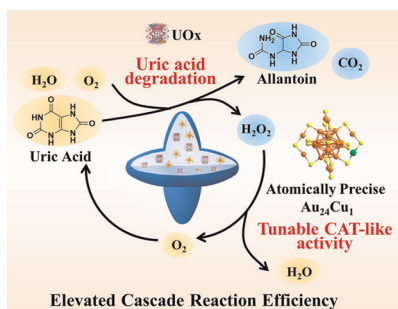
Fullerene rotation dictated by benzene–fullerene interactions

Yaofeng Wang and Fupin Liu*



RESEARCH ARTICLES

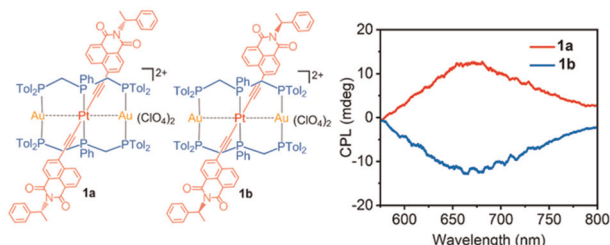
3465



Copper doping boosts the catalase-like activity of atomically precise gold nanoclusters for cascade reactions combined with urate oxidase in the ZIF-8 matrix

Yi-Shu Wang, Yan Chen, Chen Dong, Zhao-Yang Wang, Jinmeng Cai, Xueli Zhao, Hui-Lin Mo* and Shuang-Quan Zang*

3474

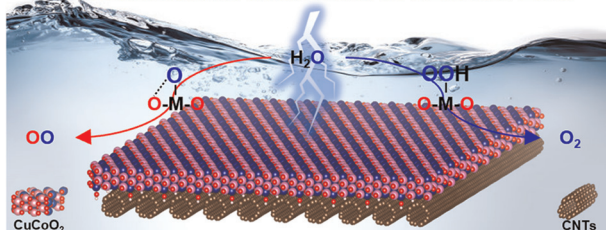


Narrow-band circularly polarized red electroluminescence in trinuclear clusters

Xin Yang, Han Cheng, Lin-Xi Shi, Jin-Yun Wang and Zhong-Ning Chen*

3482

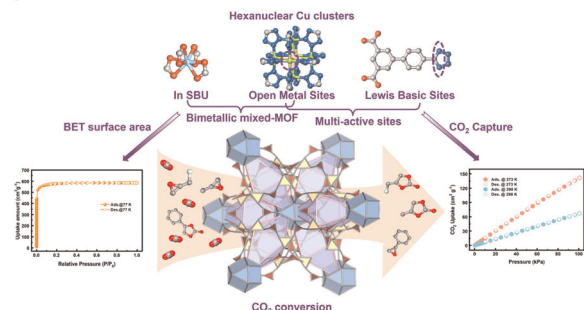
CNT and CuCoO₂ interact to promote OER through the simultaneous occurrence of AEM and LOM



The interaction of carbon nanotubes (CNTs) with CuCoO₂ nanosheets promotes structural modification and enhances their OER performance

Shiyu Ma, Chao Jiang, Jilin Bai,* Li Sun, Hao Tan, Lifeng Liu, Xianwei Zeng, Xiujian Zhao and Dehua Xiong*

3494



An unprecedented Cu₆ cluster-based bimetallic MOF with multiple open sites for high CO₂ capture and efficient CO₂ conversion

Xueyue Yu, Jiaming Gu, Baobing Tang, Tong Xu, Guanghua Li, Zhiyong Chang* and Yunling Liu*

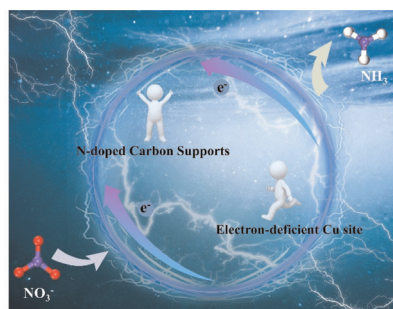


RESEARCH ARTICLES

3503

Continuous regulation of Cu electronic states by rectifying Schottky contacts enhancing electrochemical nitrate reduction to ammonia

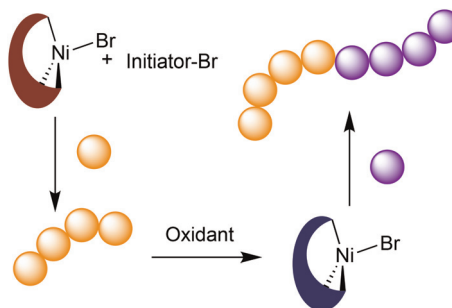
Yuzhuo Zhou, Wenlin Zhang,* Peng Guo, Yabo Guo, Jiayu Zhan, Yaheng Wang, Bo Zhang, Shaobo Zhang, Lu-Hua Zhang and Fengshou Yu*



3511

Application of a ferrocene-chelating heteroscorpionate ligand in nickel mediated radical polymerization

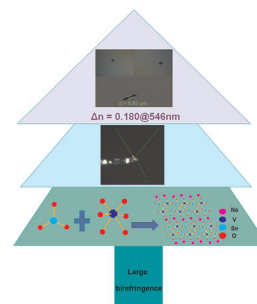
Shuangshuang Li, Ashton R. Davis, Hootan Roshandel, Nima Adhami, Yi Shen, Nathalie H. Co, Leo A. Morag, Hafez Etemad, Yuan Liu and Paula L. Diaconescu*



3520

NaVSeO₅: synergistic combinations to synthesize excellent birefringent materials

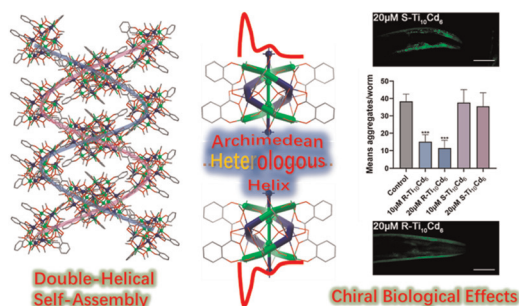
Qiuyuan Feng, Jialong Wang, Changyou Liu, Qun Jing* and Xiaoyu Dong*



3527

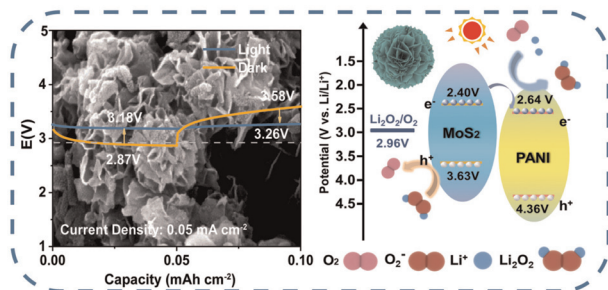
Archimedean heterologous helices in Ti₁₀Cd₆-oxo nanoclusters: double-helical self-assembly and therapeutic application in Parkinson's disease

Ling-Cui Meng, Jun-Yi Chen, Zhi-Ming Feng, Zhan-Guo Jiang,* Zhigang Jin* and Cai-Hong Zhan*



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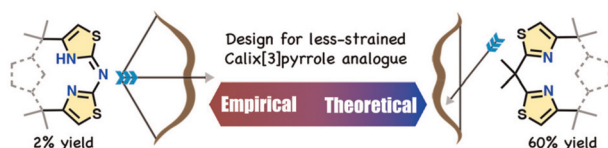
3538



Unlocking fast kinetics of n–p-type heterostructured MoS₂@PANI photocathode toward robust low-overpotential Li–O₂ batteries

Shuanghong Xia, Yang Yang, Qingzheng Jia, Mengyao Shang, Ling Li,* Song Chen* and Wenming Zhang*

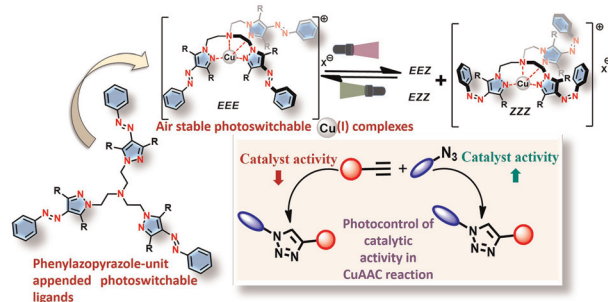
3548



Strain-based design, direct macrocyclization, and metal complexation of thiazole-containing calix[3]pyrrole analogues

Keita Watanabe, Kotaro Shibata, Tomoya Ichino,* Yuki Ide, Tomoki Yoneda, Satoshi Maeda and Yasuhide Inokuma*

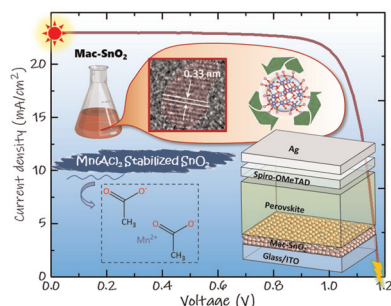
3555



Photocontrol of catalysis in CuAAC reactions by air stable Cu(I) complexes of phenylazopyrazole-incorporated ligands

Debapriya Gupta, Ankit Kumar Gaur, Deepanshu Chauhan, Sandeep Kumar Thakur, Ashish, Sanjay Singh,* Gopalan Rajaraman* and Sugumar Venkataramani*

3566



Self-assembled manganese acetate@tin dioxide colloidal quantum dots as an electron-transport layer for efficient and stable perovskite solar cells

Yutao Li, Chenyu Zhao, Lexin Wang, Lin Fan, Maobin Wei, Huilian Liu, Xiaoyan Liu, Jinghai Yang,* Fengyou Wang* and Lili Yang*

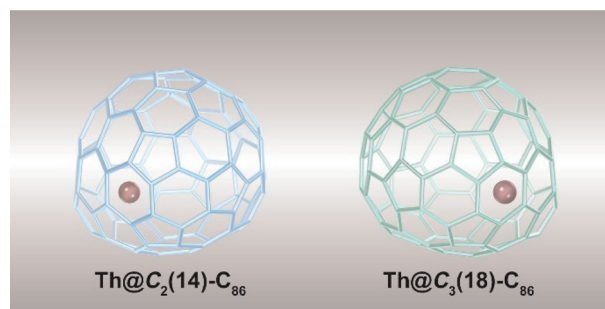


RESEARCH ARTICLES

3578

Th@C₂(14)-C₈₆ and Th@C₃(18)-C₈₆: two missing C₈₆ isomers stabilized by the encapsulation of thorium

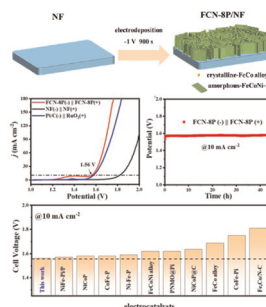
Jiawei Qiu, Lihao Zheng, Yannick Roselló, Khaoula Merimi, Yang-Rong Yao, Zhengkai Cao, Zhiwen He, Josep M. Poblet, Antonio Rodríguez-Fortea* and Ning Chen*



3585

A crystalline/amorphous FeCo alloy/FeCoNi-Pi bifunctional electrocatalyst for efficient overall water splitting

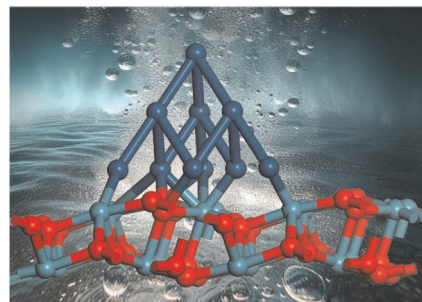
Haoyu Li, Yawei Xiao, Xu Tian, Xinxin Xing, Minhua Cao* and Yude Wang*



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Constructing self-supported Pt/MoO₂ on molybdenum mesh for a highly efficient hydrogen evolution reaction

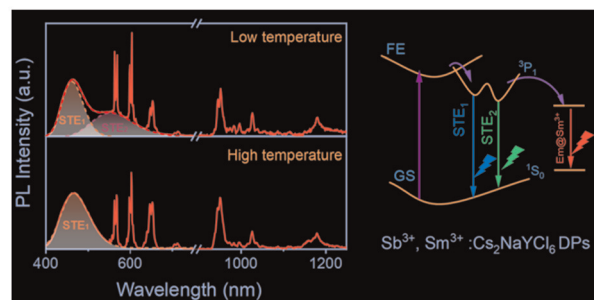
Jin Li, Panpan Zhang, Yunli Yang, Jian Zhang, Meisa Zhou, Heng Zhang,* Guilong Liu, Naiteng Wu,* Changzhou Yuan* and Xianming Liu*



3607

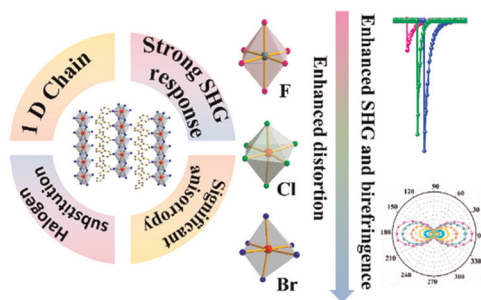
Temperature-dependent self-trapped models regulating energy transfer in rare earth double perovskites via 5s² electron doping

Chujun Tan, Shuai Zhang, Haiyan Wang, Jiandong Yao, Hongbang Liu,* Bingsuo Zou* and Ruosheng Zeng*



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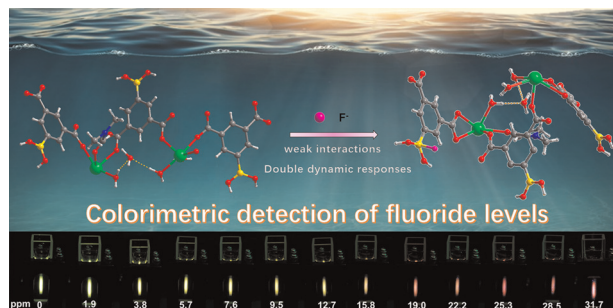
3618



Achieving strong second harmonic generation effects induced via dimensional increase of PbX_6 octahedra and halogen substitutes in $(\text{C}_{10}\text{H}_{11}\text{N}_3)\text{PbX}_4$ ($\text{X} = \text{Cl}$ or Br)

Li-Ling Zhang, Qingran Ding,* Peihan Wang, Yanqiu Zhang, Qing-Yan Liu,* Yu-Ling Wang* and Junhua Luo

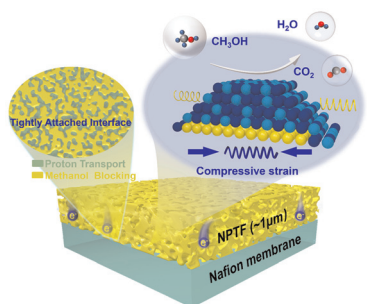
3626



Mixed lanthanide–organic frameworks with borono groups for colorimetric detection of excess fluoride levels in rivers

Hui Min,* Zhuohang Zhu, Meiyi Huang, Junbao Zhou, Nian Zhao and Peng Cheng*

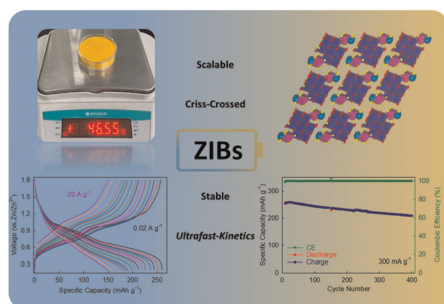
3633



Design of compressively strained PtRu alloy as anode for high-performance DMFCs

Shuai Yin, Kening Zong, Lishou Ban, Huiming Yin,* Xizheng Liu and Yi Ding

3643



A mass-producible polyoxovanadate cathode for ultrafast-kinetics zinc-ion batteries

Ming Chen, Cuihong He, Qin Liu, Wenzhuo Deng* and Chuan-Fu Sun*



CORRECTIONS

3653

Correction: Synthesis and studies of aqueous-stable diruthenium aminocarbyne complexes uncovered an *N*-indolyl derivative as a prospective anticancer agent

Matteo Fiaschi, Ján Vančo, Lorenzo Biancalana,* Tomáš Malina, Zdeněk Dvořák, Tiziana Funaioli, Stefano Zacchini, Massimo Guelfi, Zdeněk Trávníček* and Fabio Marchetti*

3654

Correction: An electrodeposited superaerophobic nickel catalyst on pencil-drawn paper: a novel approach for highly efficient and stable hydrogen evolution

Qian Sun, Xiaoyu Hao, Tianyi Zhang, Zelin Ma, Kui Hu, Ming Yang,* Xiaolei Huang* and Xuqing Liu*

