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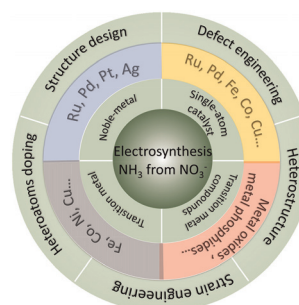


REVIEWS

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Recent progress and strategies on the design of catalysts for electrochemical ammonia synthesis from nitrate reduction

Wei Song, Luchao Yue,* Xiaoya Fan, Yongsong Luo, Binwu Ying, Shengjun Sun, Dongdong Zheng, Qian Liu, Mohamed S. Hamdy and Xuping Sun*

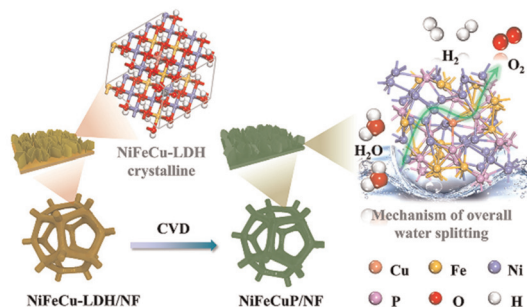


RESEARCH ARTICLES

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NiFeCu phosphides with surface reconstruction via the topotactic transformation of layered double hydroxides for overall water splitting

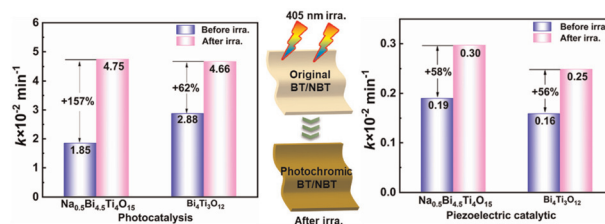
Jingmin Ge, Shuteng Diao, Jiaying Jin, Yiping Wang,* Xuhui Zhao, Fazhi Zhang and Xiaodong Lei*



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Photochromism-promoted highly efficient photocatalytic degradation in ferroelectric photochromics

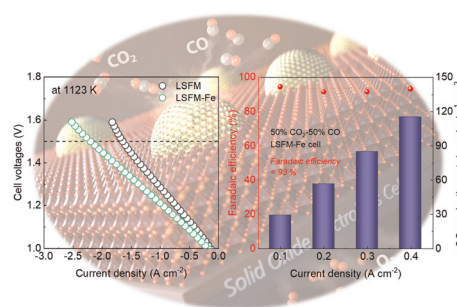
Lizhen Lu, Zhen Zhang, Peng Li, Haiqin Sun, Qiwei Zhang* and Xihong Hao



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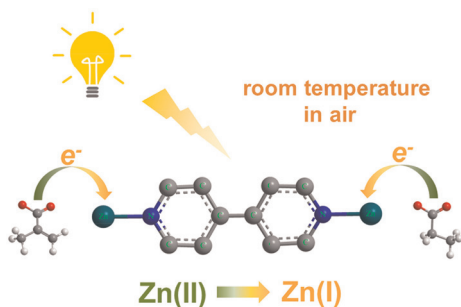
Enhancing CO₂ electrolysis performance with various metal additives (Co, Fe, Ni, and Ru) – decorating the La(Sr)Fe(Mn)O₃ cathode in solid oxide electrolysis cells

Sang Won Lee, Tae Heon Nam, Minkyu Kim, Seokhee Lee, Kyu Hyung Lee,* Jong Hyeok Park* and Tae Ho Shin*



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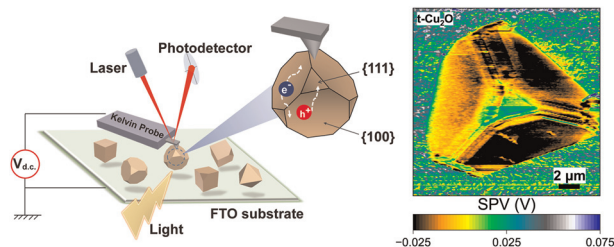
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Room-temperature photosynthesis of Zn(I) compounds with high air stability

Yi-Min Lin, Lu Liu, Ming-Sheng Wang* and Guo-Cong Guo*

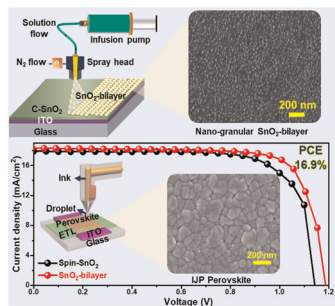
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Spatial separation of photogenerated charges on the anisotropic facets of cuprous oxide

Tianhui Su, Chunlei Yang, Fushuang Niu, Yanbo Hua, Qinshang Xu, Ke Hu and Liming Zhang*

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Spray-assisted deposition of a SnO₂ electron transport bilayer for efficient inkjet-printed perovskite solar cells

Vinayak Vitthal Satale, Neetesh Kumar, Hock Beng Lee, Manoj Mayaji Ovhal, Sagnik Chowdhury, Barkha Tyagi, Asmaa Mohamed and Jae-Wook Kang*

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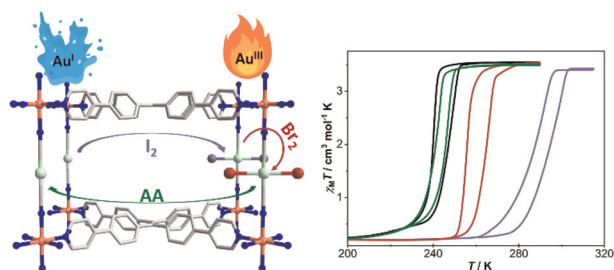
A honeycomb carbon substrate anchored with Sn and Sb bimetallic atoms boosts oxygen-reduction electrocatalysis

Shuting Li, Jinxi Han, Yuyu Guo, Zhengqiang Xia, Sanping Chen,* Gang Xie, Shengli Gao and Qi Yang*

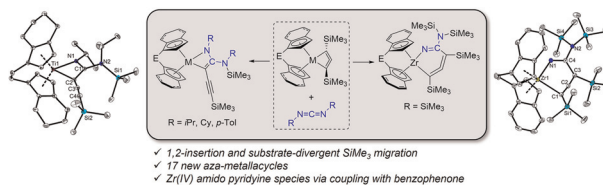


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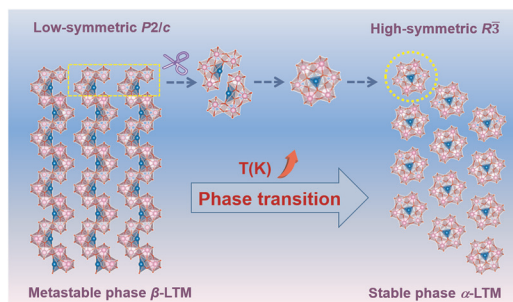
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Successive redox modulation in an iron(II) spin-crossover frameworkBang-Heng Lyu, Ze-Yu Ruan, Wen Cui, Si-Guo Wu,*
Zhao-Ping Ni* and Ming-Liang Tong*

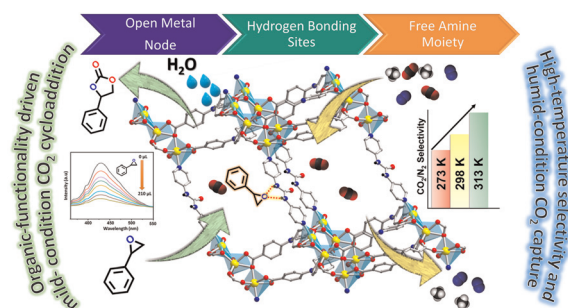
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Selective 1,2-insertion of carbodiimides and substrate-divergent silyl group migration at 1-metallacyclobuta-2,3-dienesXinzhe Shi, Sihan Li, Anke Spannenberg, Fabian Reiß*
and Torsten Beweries*

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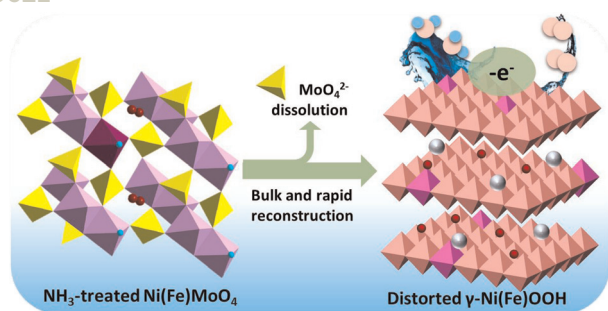
A new stable polymorph of Li₂TeMo₃O₁₂ with wide mid-infrared transparency and a large Raman responseYuheng She, Fei Liang, Jinmiao Jiao, Wenli Zhao,
Ning Ye, Zhanggui Hu, Yicheng Wu and Conggang Li*

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Contrasting-functionality-decked robust MOF for moisture-tolerant and variable-temperature CO₂ adsorption with in-built urea group mediated mild condition cycloadditionManpreet Singh, Partha Pratim Mondal, Sonal Rajput
and Subhadip Neogi*

RESEARCH ARTICLES

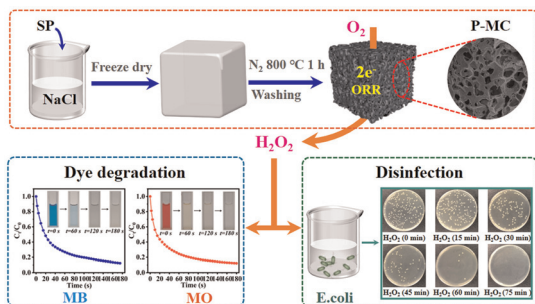
3621



Regulation of bulk reconstruction of FeNiMoO_4 via NH_3 treatment for high performance water oxidation

Fanan Wang,* Lianggao Hu, Renzhi Deng, Shiwei Dai, Dongfei Lu, Xin Chen, Xinchun Pan, Xinyi Ren, Dibo Dong, Rengui Weng,* Gang Xu* and Hongbin Yang

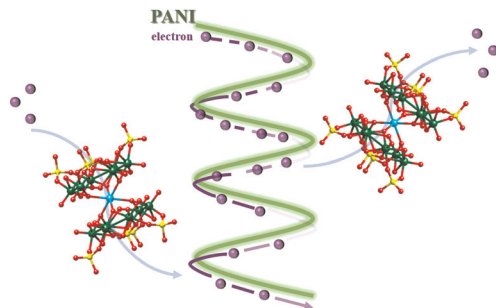
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Phosphorus doped hierarchical porous carbon: an efficient oxygen reduction electrocatalyst for on-site H_2O_2 production

Lizhi Liu, Chenglu Yan, Xuanyan Luo, Caixia Li, Di Zhang, Huaqiao Peng, Huiyong Wang, Baozhan Zheng* and Yong Guo*

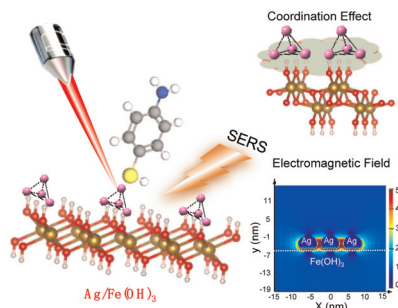
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Solid-state supercapacitors based on polyoxometalate-based crystalline materials modified with polyaniline

Chen Wang, Zhi-Xin Gao, Hong-Ying Zang,* Tao-Wen Dong* and Zhong-Min Su*

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Significant surface-enhanced Raman scattering effect of Ag-loaded iron hydroxide enabled by coordination effect between Ag and hydroxyl group

Xiangyu Meng, Jian Yu, Jingjing Wu, Yuening Wang, Xiaoyu Song, Ziyang Xu, Anran Li,* Lin Qiu,* Jie Lin* and Xiaotian Wang*

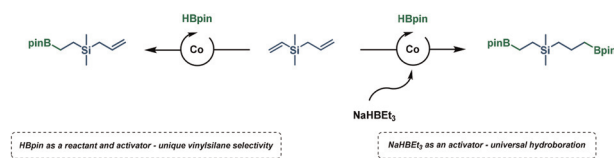


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Cobalt pincer-type complexes demonstrating unique selectivity for the hydroboration reaction of olefins under mild conditions

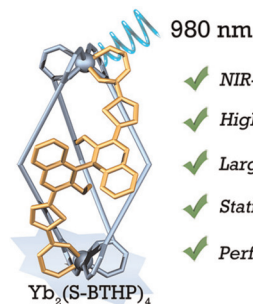
Dariusz Lewandowski and Grzegorz Hreczycho*



3664

Remarkable 980 nm circularly polarized luminescence from dinuclear Yb(III) helicates with a D₄ symmetry

Lingli Wang, Zhiwei Yao, Wenru Huang, Ting Gao, Pengfei Yan, Yanyan Zhou* and Hongfeng Li*

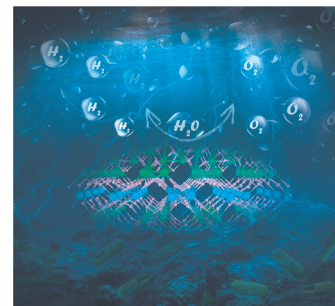


- ✓ NIR-CPL at 980 nm
- ✓ Highest $g_{lum} = 0.81$ for Yb-CPL
- ✓ Largest $B_{CPL} = 821 M^{-1}cm^{-1}$ for Yb-CPL
- ✓ Static and dynamic coupling mechanisms
- ✓ Perfect D₄ symmetry of helicate

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Interfacial engineering of FeWO₄/Fe₂O₃ homometallic heterojunctions for synergistic electrocatalytic water splitting

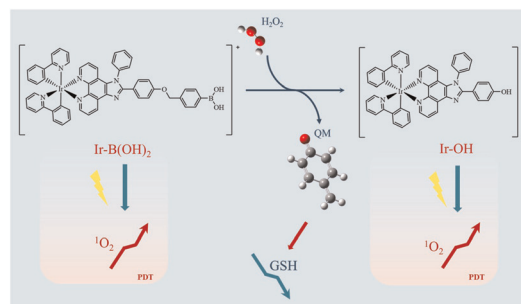
Rongfang Li, Heng Zhang,* Junling Chen, Ka Zhang, Wenqiang Li, Xun Feng,* Huijuan Zhang, Ibro Douka Abdoukader,* Xu Zhang and Tiexin Zhang*



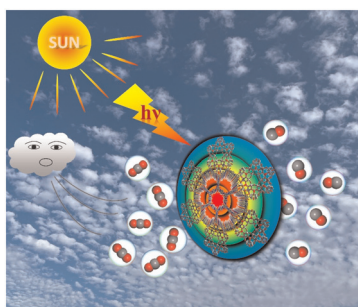
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Mechanism of action of an Ir(III) complex bearing a boronic acid active as a H₂O₂-responsive photosensitizer: ROS generation and quinone methide release for GSH scavenging

Pierraffaele Barretta and Gloria Mazzone*



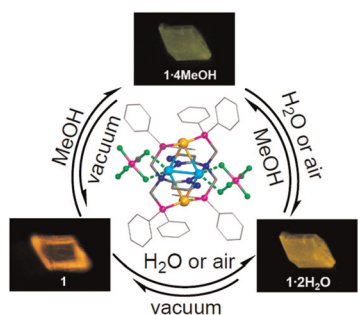
3699



Novel COF@Ti–MOF hybrid photocatalysts enabling enhanced photocatalytic CO₂ reduction in a gas–solid system without additives

Rui-Gang Yang, Yao-Mei Fu, Xing Meng, Li Xue, Zhen Zhou, Yu-Ou He, Jian-Xin Qu, Hai-Ning Wang* and Zhong-Min Su

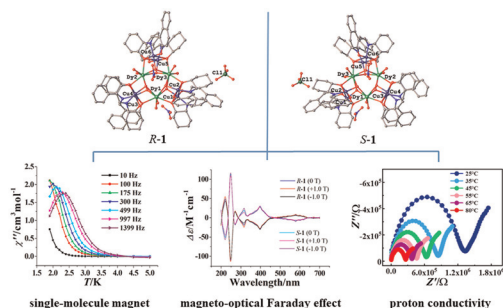
3706



A PN(Pz)P ligand protected Au₂Cu₂ complex for photoluminescent ultra-low humidity detection with reversible single-crystal-to-single-crystal transformations

Shengnan Hu, Sisi Yan, Yuanyuan Hu, David James Young, Hong-Xi Li, Chengrong Lu,* Jing-Hui He* and Zhi-Gang Ren*

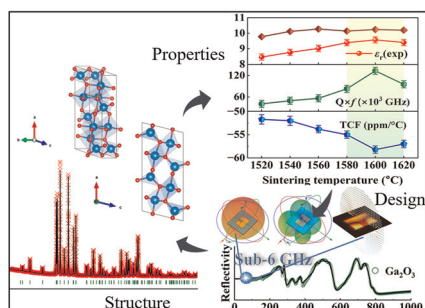
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Homochiral Cu₆Dy₃ single-molecule magnets displaying proton conduction and a strong magneto-optical Faraday effect

Cai-Ming Liu,* Shui-Dong Zhu, Ying-Bing Lu, Xiang Hao and He-Rui Wen

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β-Ga₂O₃: ultralow-loss and low-permittivity dielectric ceramic for high-frequency packaging substrate

Wei Wang, Chao Du, Xin Wang, Diming Xu,* Hong-Song Qiu, Biao-Bing Jin, Zhong-Qi Shi, Fayaz Hussain, Moustafa Adel Darwish, Tao Zhou, Ya-Wei Chen, Qi-Xin Liang, Mei-Rong Zhang and Di Zhou*



CORRECTION

3730

Correction: A hollow urchin-like metal–organic framework with Ni–O-cluster SBUs as a promising electrode for an alkaline battery–supercapacitor device

Tianqi Chen, Sujuan Bian, Xutian Yang, Wenjie Lu, Kuaibing Wang,* Yuxuan Guo, Cheng Zhang and Qichun Zhang*

