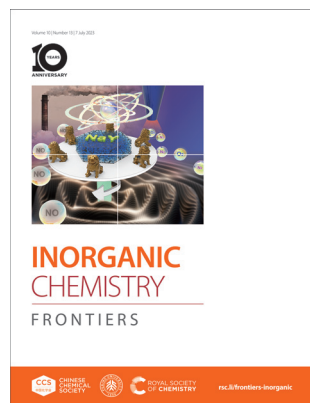


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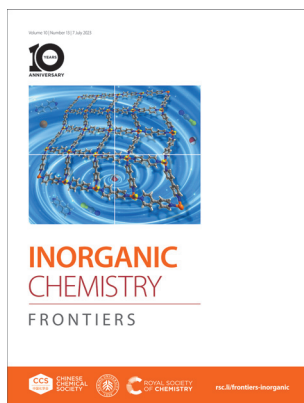


Cover

See Jicheng Zhou, Wentao Xu *et al.*, pp. 3808–3820.

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Inside cover

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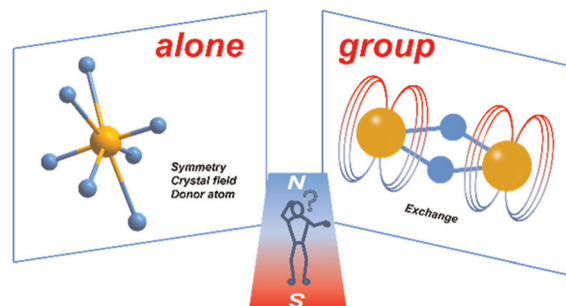
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Actinide-based single-molecule magnets: alone or in a group?

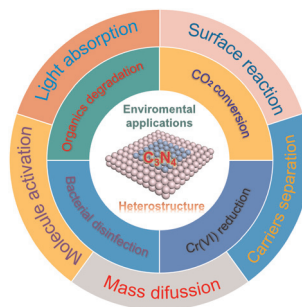
Ming Liu, Xiao-Han Peng, Fu-Sheng Guo* and Ming-Liang Tong*



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Emerging heterostructured C_3N_4 photocatalysts for photocatalytic environmental pollutant elimination and sterilization

Yang Ding, Chunhua Wang, Lang Pei, Soumyajit Maitra, Qinan Mao, Runtian Zheng, Meijiao Liu, Yun Hau Ng, Jiasong Zhong,* Li-Hua Chen* and Bao-Lian Su*



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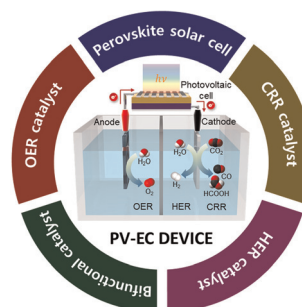
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Halide perovskite photovoltaic-electrocatalysis for solar fuel generation

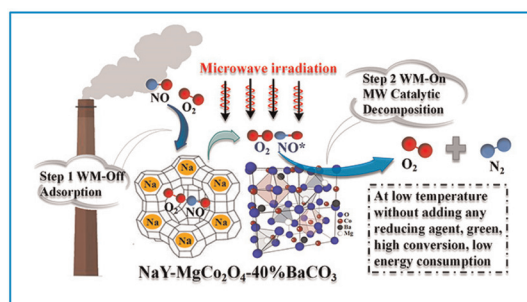
Jin Wook Yang, You Jin Ahn, Deok Ki Cho,
Jin Young Kim* and Ho Won Jang*



RESEARCH ARTICLES

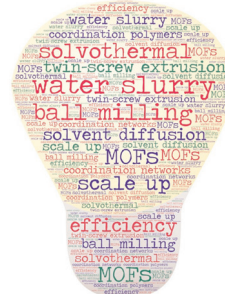
Highly effective and energy-saving removal of NO through an adsorption–microwave catalytic decomposition method under complex flue gas at low temperature

Chunmu Yu, Yuhan Yi, Jicheng Zhou* and Wentao Xu*



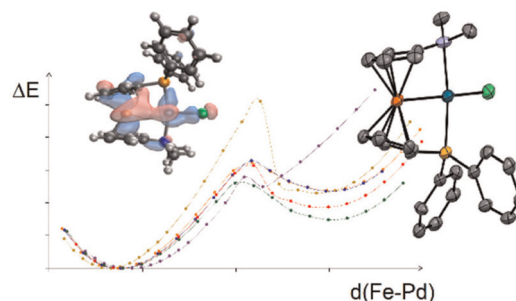
The impact of solution vs. slurry vs. mechanochemical syntheses upon the sorption performance of a 2D switching coordination network

Shi-Qiang Wang,* Shaza Darwish and
Michael J. Zaworotko*



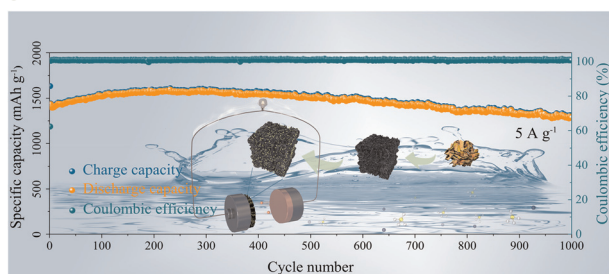
Tailoring the Fe → Pd interaction in cationic Pd(II) complexes *via* structural variation of the ligand scaffold of sterically demanding dppf-analogs and their P,N-counterparts

Subhayan Dey, Fabian Roesler, Clemens Bruhn,
Zsolt Kelemen* and Rudolf Pietschnig*



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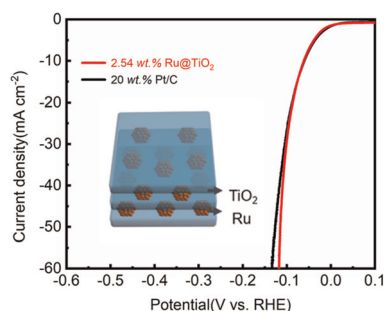
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Highly efficient sulfur cathode built from biomass of hierarchical porous carbon for aqueous Cu–S batteries

Xue Han, Jiayi Xu, Haoxiang Yu,* Junwei Zhang, Yiwen Liu, Junyi Wang, Zhouxiang Wu, Zhongjie Shu,* Lei Yan, Liyuan Zhang and Jie Shu*

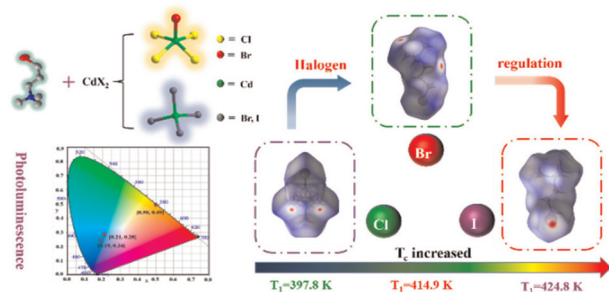
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Unique sandwich structure of Ru@TiO₂: salicylic acid micro-etching from K₂Ti₂O₅ and high-performance electrocatalytic hydrogen evolution

Yuge Cao, Song Liang, Ya Yan, Wujie Dong, Chenlong Dong, Wangshu Zheng, Shuying Nong* and Fuqiang Huang*

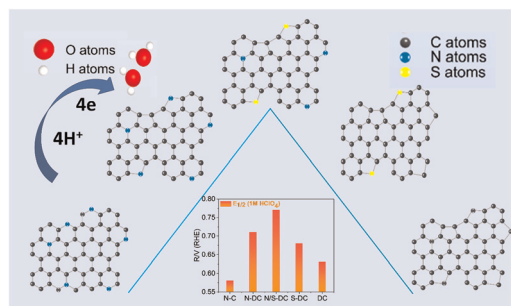
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Halogenation triggering rules in hybrid materials for fluorescence and dielectric phase transitions

Jun-Qin Wang, Gele Teri, Hao-Fei Ni, Qing-Feng Luo, Xiao-Ping Wang, Da-Wei Fu,* Yi Zhang* and Qiang Guo*

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Gradual introduction of multiple active sites in quest of high activity metal-free oxygen reduction catalysts and exploring the synergistic effect

Qi Guo, Shuai Ma, Qi-Long Wu, Zhi-Zhuang Liu, Zhao-Quan Yao,* Shuai Li, Jiong-Peng Zhao* and Fu-Chen Liu*

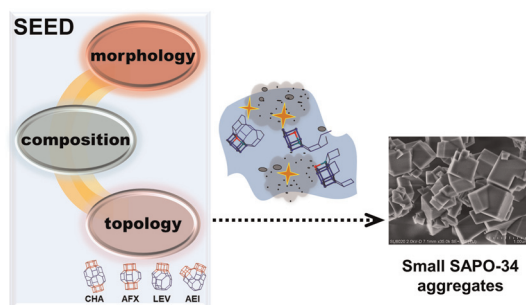


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Insights on the seed selection criteria of SAPO-34 synthesis: structural units and their chemical microenvironment

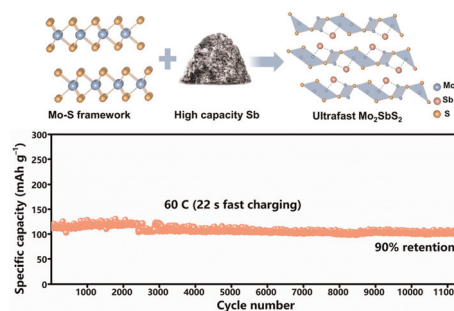
Xiaosi Zhang, Miao Yang,* Ye Wang, Caiyi Lou, Shutao Xu, Peng Tian* and Zhongmin Liu



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Anchoring atomic antimony in an intercalative Mo–S framework via soft covalent bonding for fast-charging and long-lived sodium ion batteries

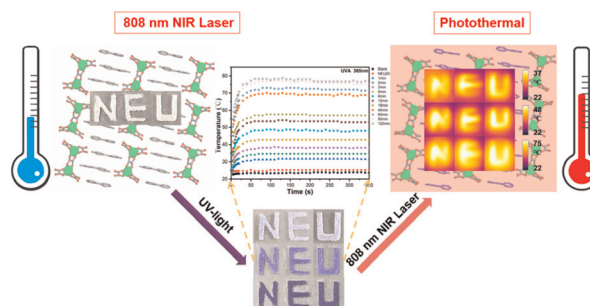
Baixin Peng, Zhuoran Lv, Yuqiang Fang, Tianxun Cai, Zhiyuan Shi, Ce Zhou, Yusha Gao and Fuqiang Huang*



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Photoinduced radicals modulated NIR photothermal conversion in a photochromic inorganic–organic complex

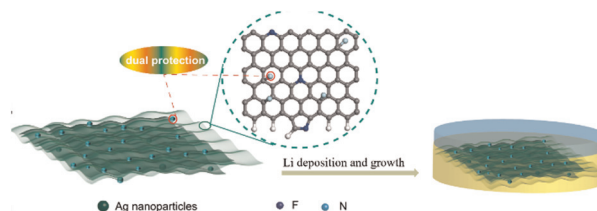
Zhe Wang, Tieqiang Wang, Junbiao Wu,* Zhuopeng Wang and Jiyang Li*



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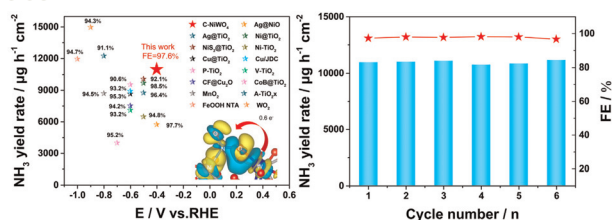
A dual protection strategy for stable lithium metal anodes using Ag nanoseed decorated F-doped porous graphene current collectors

Yang Yan,* Jing Sun, Ying Zhang, Wen Liu, Yu-jie Wang, Hui-qin Yang, Cheng-jie Li and Juan Zhang*



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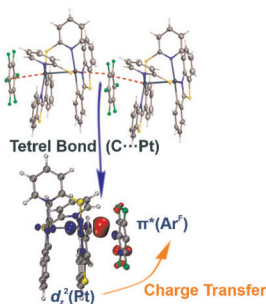
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NiWO₄ nanoparticles with oxygen vacancies: high-efficiency electrosynthesis of ammonia with selective reduction of nitrite

Hang Qiu, Qiuyue Chen, Jing Zhang,* Xuguang An, Qian Liu, Lisi Xie, Weitang Yao, Xuping Sun* and Qingquan Kong*

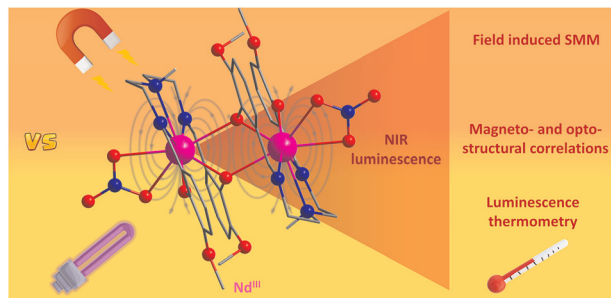
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Metal-involved C...d_{z2}-Pt^{II} tetrel bonding as a principal component of the stacking interaction between arenes and the platinum(II) square-plane

Eugene A. Katlenok,* Maxim L. Kuznetsov, Anton V. Cherkasov, Dmitry M. Kryukov, Nadezhda A. Bokach and Vadim Yu. Kukushkin*

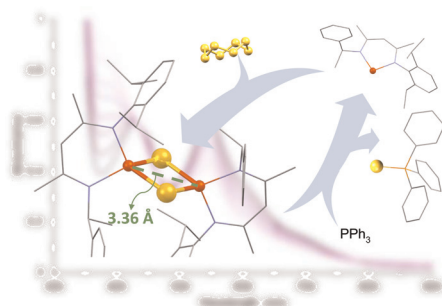
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The role of terminal ligands in the slow relaxation of magnetisation and luminescence thermometry of dinuclear Nd^{III} complexes

Airton G. Bispo-Jr, Diogo A. Gállico, Roberto M. Diaz-Rodriguez, Jeffrey S. Ovens, Fernando A. Sigoli* and Muralee Murugesu*

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Synthesis, kinetic studies, and atom transfer reactivity of [2Fe-2E] model compounds

Erwin A. Weerawardhana, Matthias Zeller and Wei-Tsung Lee*

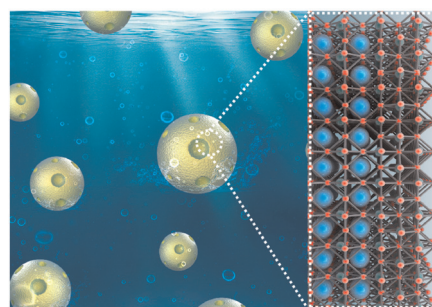


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Engineering heterostructured $\text{Ti}_4\text{O}_5/\text{BaTiO}_3$ ferroelectric by surface reconstruction for enhanced photocatalytic CO_2 reduction

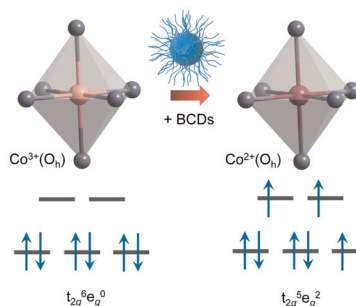
Ran Su, Zhitong Sun, Chao He, Suna Wei, Lanju Chen, Dawei Zhang, Zhipeng Wang,* Xingtao An* and Fatang Li*



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Regulating the spin density of Co^{III} using boron-doped carbon dots for enhanced electrocatalytic nitrate reduction

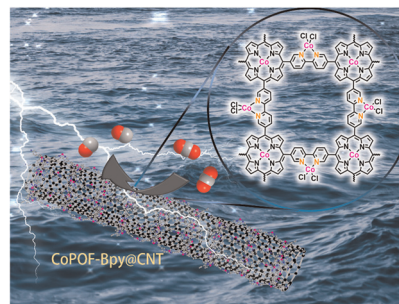
Jingjing Huang, Jingkun Yu, Xingmei Lu, Yingying Wei, Haoqiang Song, Ang Cao, Jinmeng Cai,* Shuang-Quan Zang and Siyu Lu*



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A supported polymeric organic framework composed of dual electrocatalytically active sites for high-performance carbon dioxide electroreduction

Shengsheng Huang, Qizhe He, Hongwei Li, Jinjie Qian,* Wei Xu and Ting-Ting Li*



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Enhanced radioluminescence of $\text{NaLuF}_4:\text{Eu}^{3+}$ nanoscintillators by terbium sensitization for X-ray imaging

Tianshe Yang, Luo Guo, Hao Wang, Xueli Xu, Peilin Wu, Ning Zhang, Xiangmei Liu, Shujuan Liu* and Qiang Zhao*

