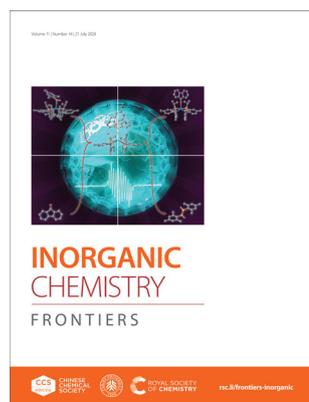


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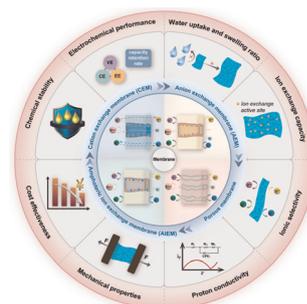
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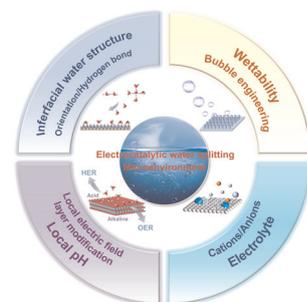
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Xiang Li, Wangchuan Zhu, Yanqun Zhang, Yueyue Zhao, Danjun Wang, Yanzhong Zhen, Feng Fu and Chunming Yang*



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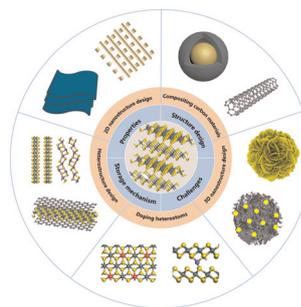
Fundamental questions
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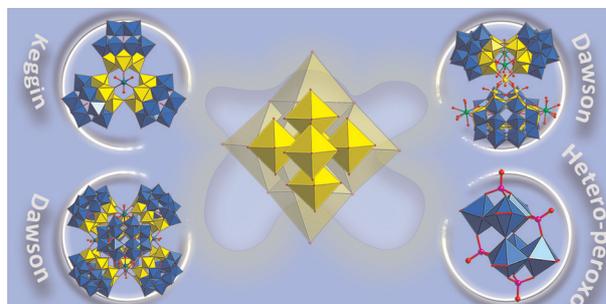
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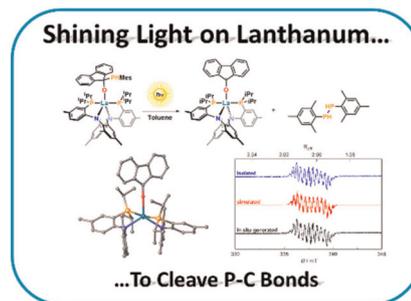


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Light-induced splitting of P–C bonds in a lanthanum(III) hemiphosphinal complex

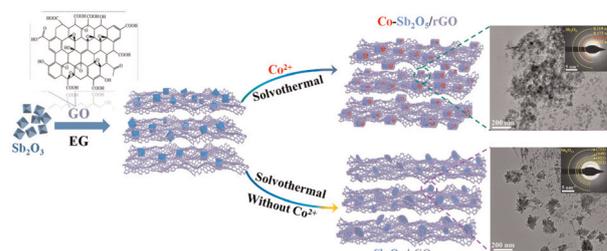
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Xiaozhong Zhou,* Aixia Wang, Xiaoyan Zheng, Dongfei Sun and Yaoxia Yang

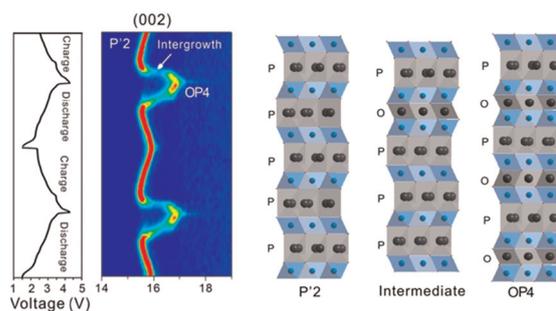


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Using a dual-site substitution strategy to inhibit staircase-like electrochemical profiles for high-performance Na-ion battery cathodes

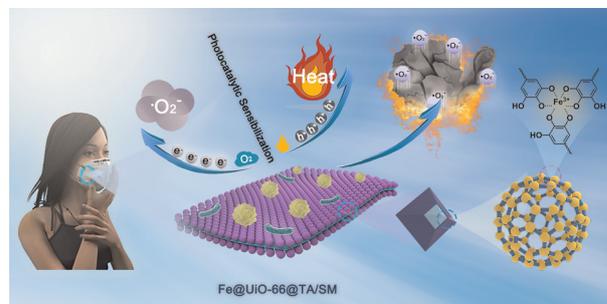
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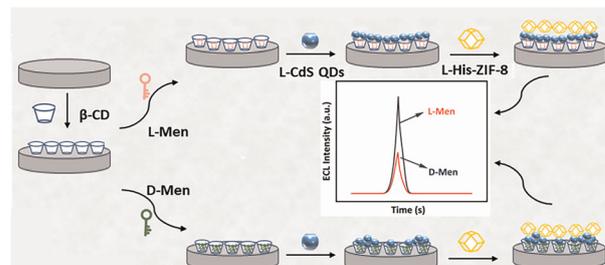
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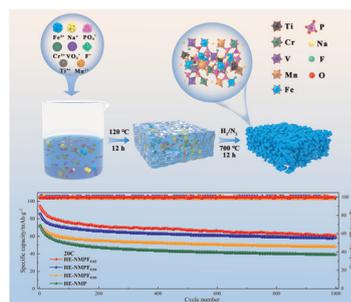
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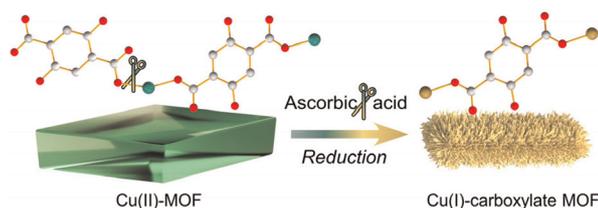
Design of fluorine-substituted high-entropy phosphates as cathode materials towards high-performance Na-ion batteries

Qi Wang, Man Zhao, Hai-tao Yu, Ying Xie* and Ting-Feng Yi*



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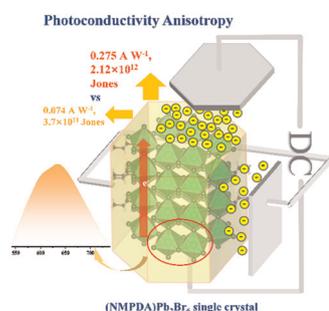
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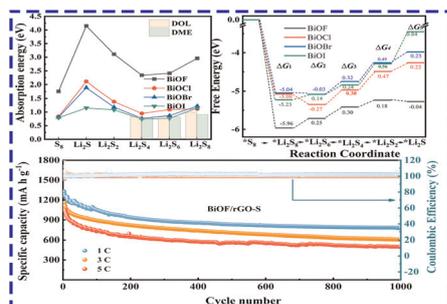
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Methylated diammonium spacer modulated three-dimensional lead bromide perovskitoid hybrids with distinct photoconductivity anisotropy

Sheng Cao, Kuan Kuang, Biqi He, Junjie Tang, Zixian Yu, Mingkai Li,* Yunbin He* and Junnian Chen*

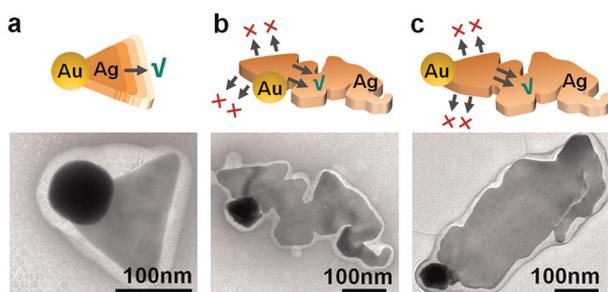
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Boosting the electrocatalytic activity of 2D ultrathin BiOX/rGO (X = F, Cl, Br, and I) nanosheets as sulfur hosts: insight into the electronegativity effect of halogenated elements on the electrochemical performances of lithium–sulfur batteries

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Two-dimensional active surface growth of Ag nanoplates

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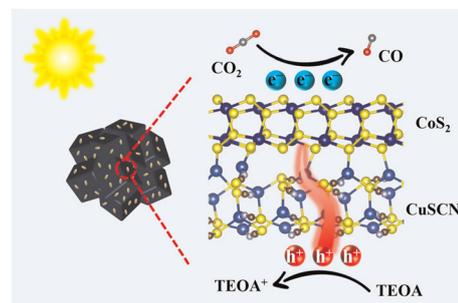


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One-pot molten-salt construction of channels for hole transport and mass transfer over CoS_2 nanocubes for visible-light-driven CO_2 reduction

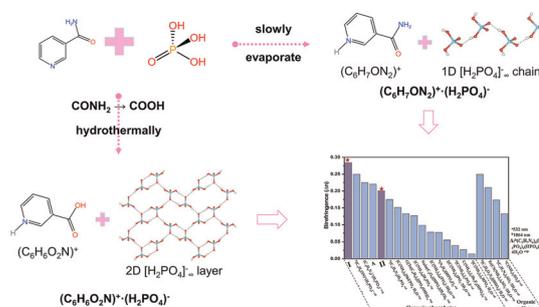
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Designing promising ultraviolet (UV) birefringent crystals with different hydrogen-bonded phosphate frameworks

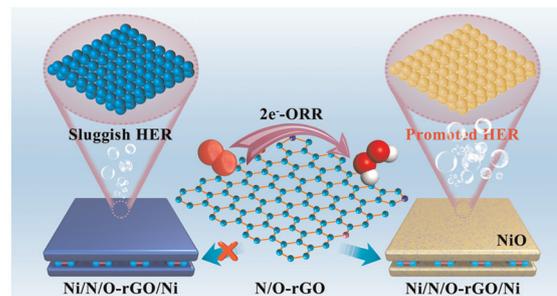
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Enhancing acidic hydrogen evolution through pyrrolic nitrogen-doped reduced graphene oxide triggering two-electron oxygen reduction

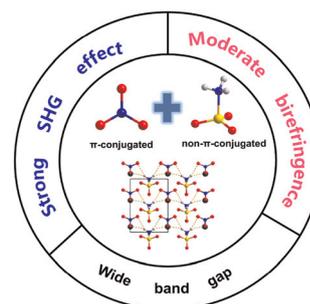
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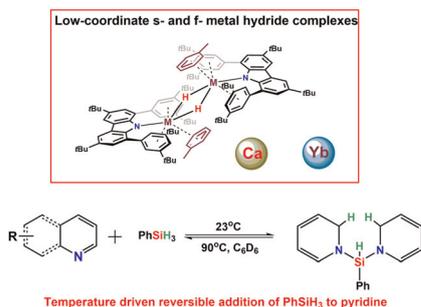
Synergistic combination of different types of functional motif in $\text{Rb}(\text{NO}_3)(\text{SO}_3\text{NH}_2)$ for realizing excellent ultraviolet optical nonlinearity

Yunxia Song, Chensheng Lin, Xin Zhao, Tao Yan, Ning Ye, Haotian Tian* and Min Luo*



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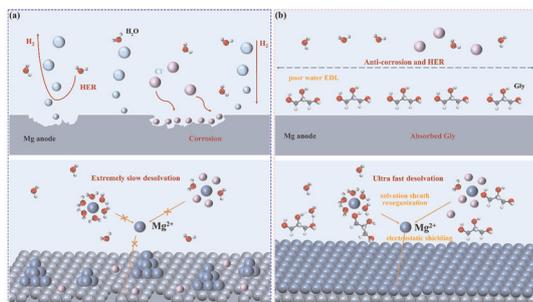
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Reversible hydrosilane addition to pyridines enabled by low-coordinate Ca(II) and Yb(II) hydrides

Alexander N. Selikhov, Mikhail A. Bogachev, Yulia V. Nelyubina, Grigory Yu. Zhigulin, Sergey Yu. Ketkov and Alexander A. Trifonov*

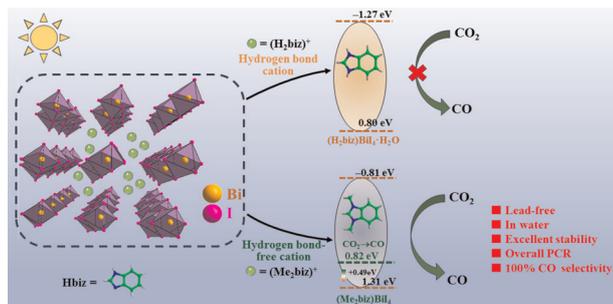
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Utilizing an electrolyte additive to modulate interfaces and enhance anode discharge performance in aqueous magnesium–air batteries

Sha Jianchun, Li Xue, Liu Zhoulin, Bao Jiaxin, Li Lianhui, Tian Jie, Yang Yiqiang, Chen Weilong, Liu Wenhong and Zhang Zhiqiang*

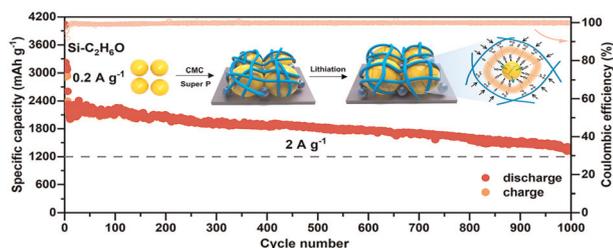
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Band edge modulation via a hydrogen-bond-free cation in hybrid bismuth iodine for overall photocatalytic CO_2 reduction

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Dynamic mechanical equilibrium of silicon anodes for lithium-ion batteries enabled by surface hydroxyl-rich bonding

Fangfang Zhao, Bowen Tao, Liming Yu, Cong Pan,* Lei Ma, Liangming Wei,* Gen Tang, Yue Wang and Xiang Guo*

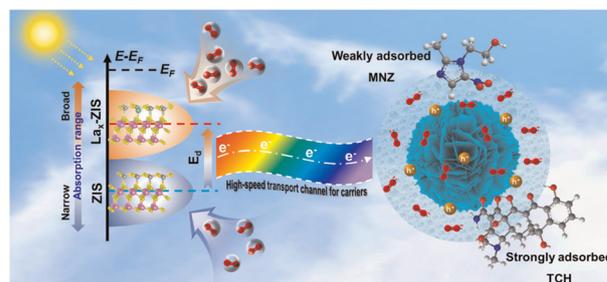


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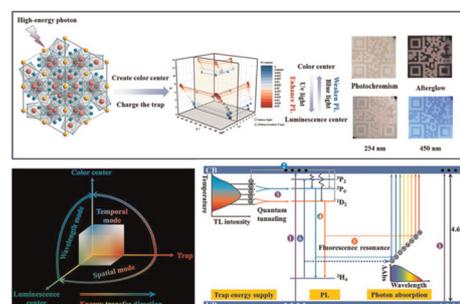
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Manipulating photon absorption and trap energy supply for multimode dynamic anti-counterfeiting

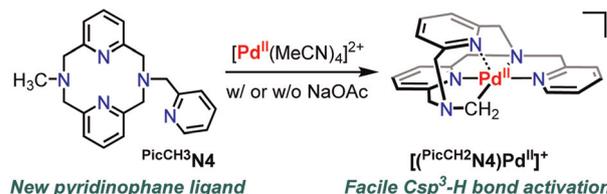
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Csp³-H bond activation mediated by a Pd(II) complex under mild conditions

Hanah Na, Andrew J. Wessel, Seoung-Tae Kim, Mu-Hyun Baik* and Liviu M. Mirica*



New pyridinophane ligand

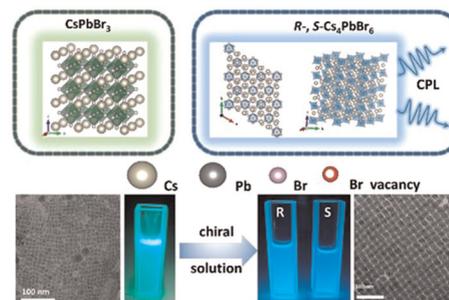
Facile Csp³-H bond activation

Synthesis, Characterization, and Reactivity
Study of a Pd pyridinophane complex

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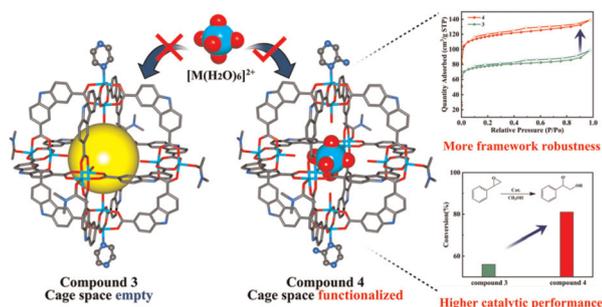
Chiral defect-induced blue photoluminescence and circularly polarized luminescence of zero-dimensional Cs₄PbBr₆ perovskite nanocrystals

Jiaqi Zhao, Yuan Wang, Tinglei Wang and Yu Wang*



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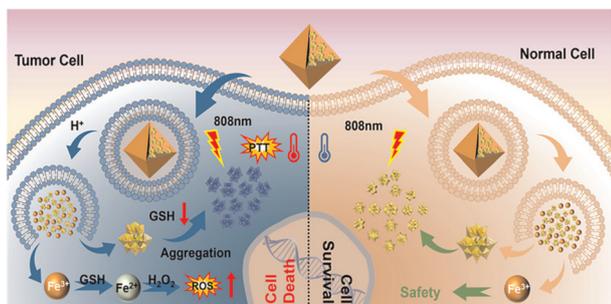
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Metal ion attachment in cavities of metal organic polyhedra to enhance framework robustness and catalytic performance

Mengyu Zhu, Hang Chen, Hairong Li, Hao Zhang, Lizhen Liu, Qichen Hong, Zizhu Yao,* Lihua Wang* and Zhangjing Zhang*

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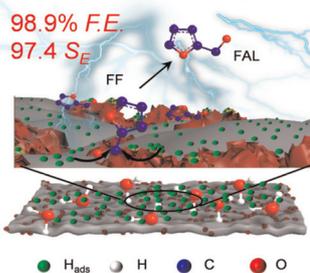


GSH/pH dual-activated POM@MOF for tumor cell-specific synergistic photothermal and chemodynamic therapy

Bole Li, Zhujun Wu, Xiaotong Xu, Yanfei Lv, Yunfei Guo, Siyu Liang, Zhimin Wang,* Lei He* and Yu-Fei Song*

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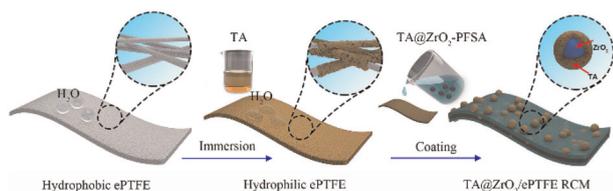
Electrocatalytic Hydrogenation



Electrochemical hydrogenation of furfural under alkaline conditions with enhanced furfuryl alcohol selectivity by self-grown Cu on a Ag electrode

Huiming Wen, Ziyi Fan, Shuo Dou, Jason Chun-Ho Lam, Wenjun Zhang* and Zupeng Chen*

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A composite proton exchange membrane with a three-dimensionally-reinforced hydrogen bonding network for durable hydrogen fuel cells

Yunfa Dong, Chao Feng, Haodong Xie, Yuhui He, Carlos M. Costa, Senentxu Lanceros-Méndez, Jiecai Han and Weidong He*

