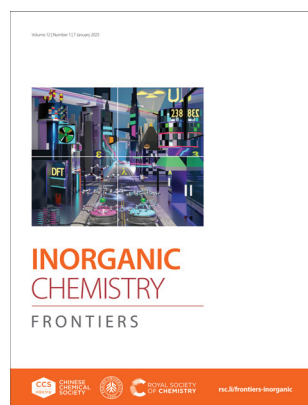


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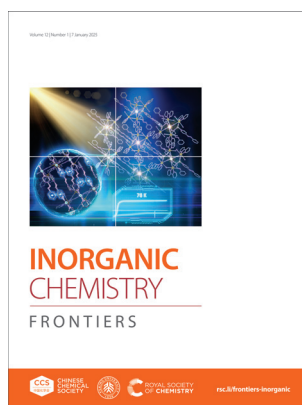
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#### Cover

See Selvan Demir *et al.*, pp. 118–130.

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#### Inside cover

See Hiroki Oshio *et al.*, pp. 131–137.

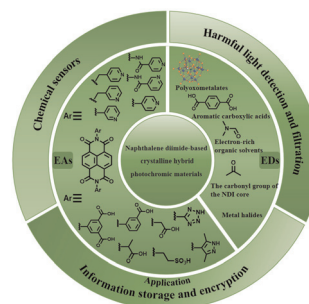
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#### Naphthalene diimide-based crystalline hybrid photochromic materials: structural types, photochromic mechanism, and applications

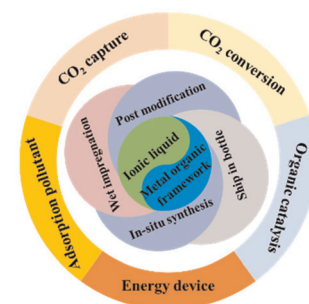
Li Li,\* Jian-Ge Zeng, Ning-Ning Zhang, Yang-Tao Yu, Shu-Hao Li and Yang Hua\*



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#### Ionic-liquid/metal–organic-framework composites: synthesis and emerging sustainable applications

Maiyong Zhu



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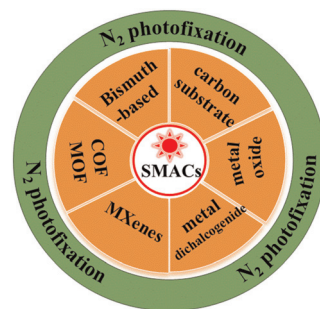


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### The use of single-metal atom-based photocatalysts for the production of ammonia through photocatalytic nitrogen fixation

Ping Zhang,\* Yongchong Yu, Reyila Tuerhong, Xinyu Du, Keyi Chai, Xiaoping Su,\* Qing Su,\* Shujuan Meng and Lijuan Han\*

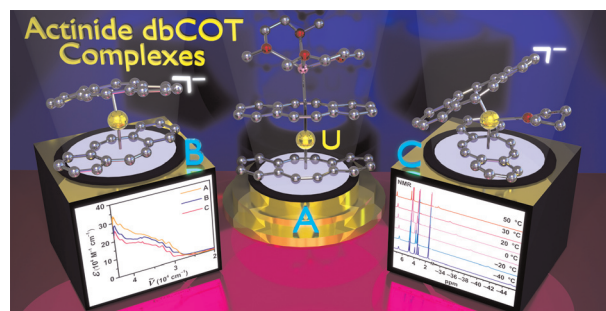


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### Introducing dibenzocyclooctatetraene into actinide chemistry: isolation of rare trivalent uranium sandwich complexes

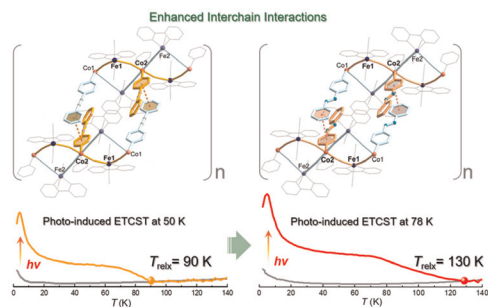
Ernesto Castellanos, Wei Su and Selvan Demir\*



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### Interchain interactions raised the photo-induced [LS] → [HS\*] transition temperature to 78 K in a cyanide-bridged [Fe<sub>2</sub><sup>III</sup>Co<sup>II</sup>] chain

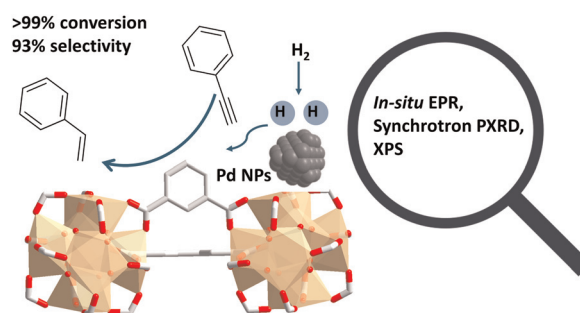
Wen-Jing Jiang, Yin-Shan Meng, Han-Han Lu, Hai-Lang Zhu, Qiang Liu, Chunying Duan, Hiroki Oshio\* and Tao Liu



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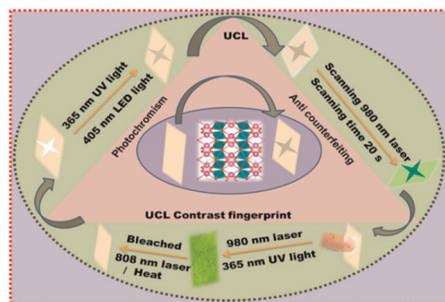
### A novel cerium-based metal-organic framework supported Pd catalyst for semi-hydrogenation of phenylacetylene

Xiangdi Zeng, Zi Wang, Meng He, Wanpeng Lu, Wenyuan Huang, Bing An, Jiangnan Li, Mufan Li, Ben F. Spencer, Sarah J. Day, Florian Tuna, Eric J. L. McInnes, Martin Schröder\* and Sihai Yang\*



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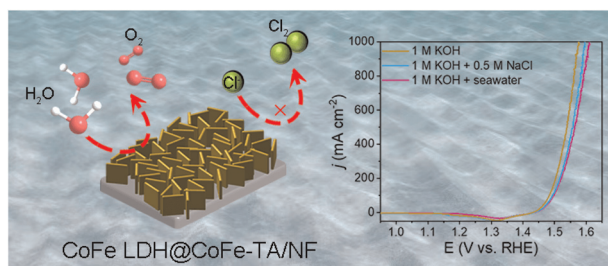
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### Dual-function applications of photochromic BiNbO<sub>4</sub>:Er<sup>3+</sup> ceramics based on reversible upconversion luminescence modulation

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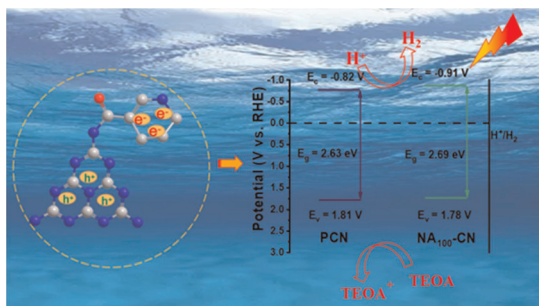
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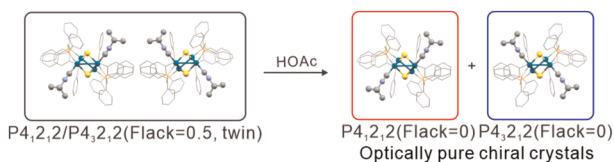
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### In situ construction of donor-acceptor structured g-C<sub>3</sub>N<sub>4</sub> nanotubes incorporated with pyridine heterocyclic rings for efficient photocatalytic water splitting

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### Glacial acetic acid as a resolution solvent for growing enantiopure crystals from racemic mixtures

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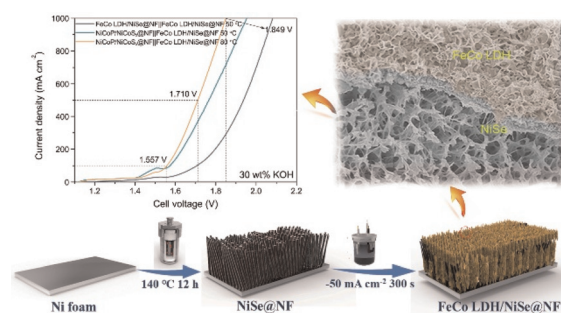


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## Hierarchical FeCo LDH/NiSe heterostructure electrocatalysts with rich heterointerfaces for robust water splitting at an industrial-level current density

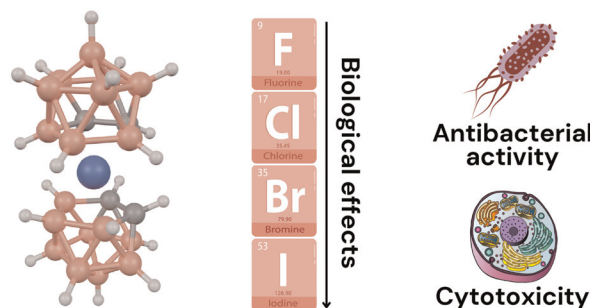
Weiwei Han, Wenyi Wang, Jiahong Liao, Yi He, Xingwang Zhang\* and Chunlin Yu\*



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## Unraveling the correlation between biological effects and halogen substituents in cobalt bis(dicarbollide)

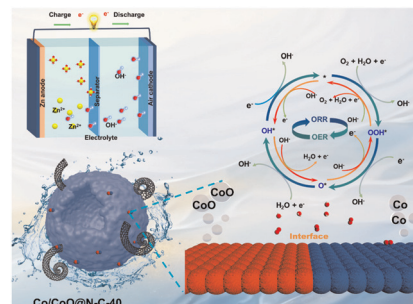
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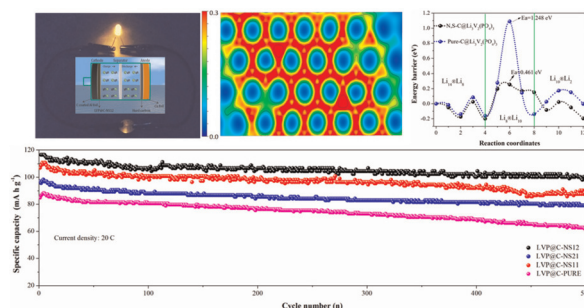
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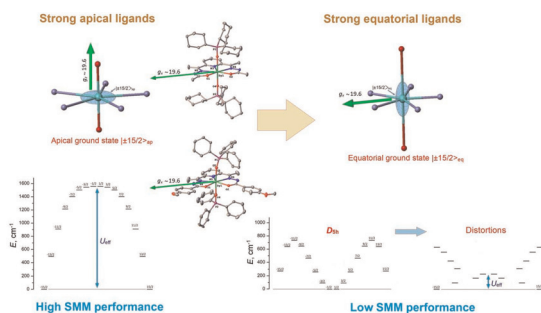
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Jinggao Wu,\* Canyu Zhong, Xiaofan Chen and Jing Huang\*



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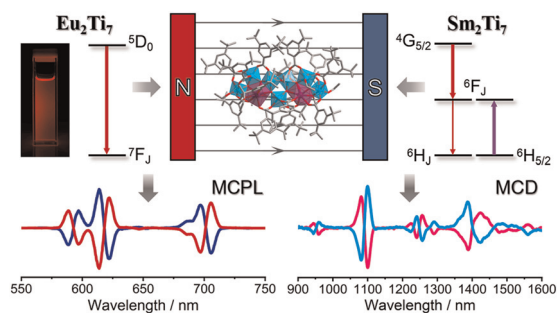
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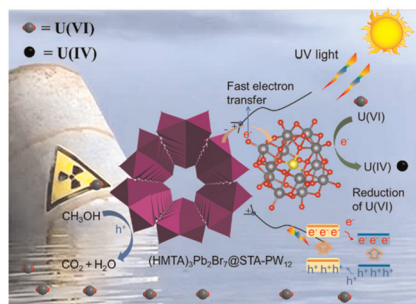
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### Magneto-optical response and luminescence properties of lanthanide-titanium-oxo clusters $Eu_2Ti_7$ and $Sm_2Ti_7$

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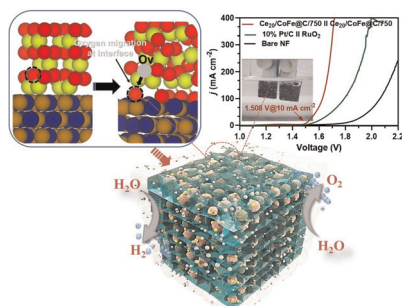
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### Water-stable perovskite nanotube array with enhanced transport of charge carriers induced by functionalized polyoxometalate for the highly efficient photoreduction of uranium(VI)

Yanli Yang, Keke Guo, Xue Bai, Maochun Zhu, Siyue Wang and Shuxia Liu\*

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### Interface engineering of highly stable $CeO_2/CoFe@C$ electrocatalysts for synergistically boosting overall alkaline water splitting performance

Waleed Yaseen, Karim Harrath, Guangya Li, Bashir Adegbemiga Yusuf, Suci Meng,\* Meng Xie, Iltaf Khan, Jimin Xie, Changkun Xia and Yuanguo Xu\*

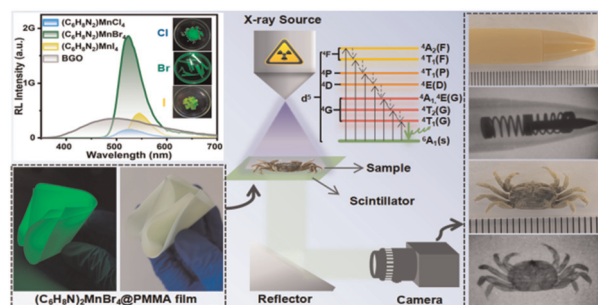


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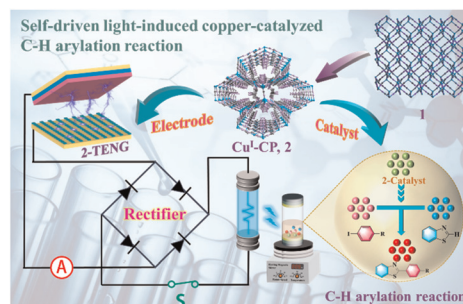
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### A dual-purpose copper(I) coordination polymer for the construction of self-driven photoinduced C–H arylation systems

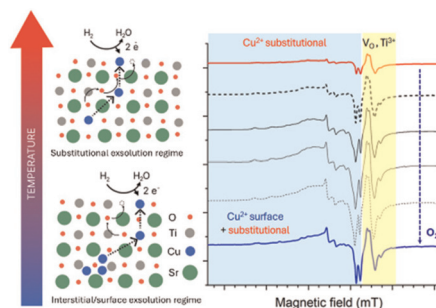
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### Critical assessment of the exsolution process in Cu-doped SrTiO<sub>3</sub> by a combined spectroscopic approach

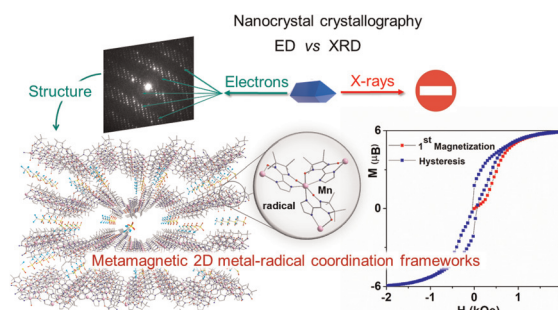
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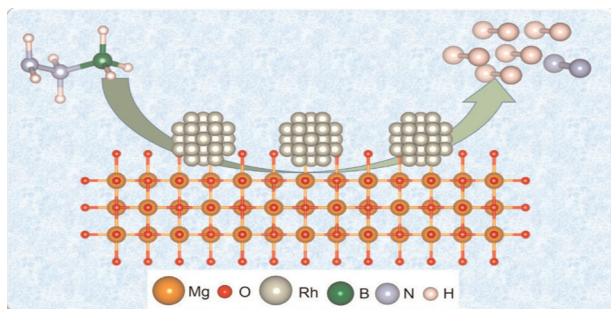
### Electron diffraction unveils the 2D metal-radical framework of two molecule-based magnets

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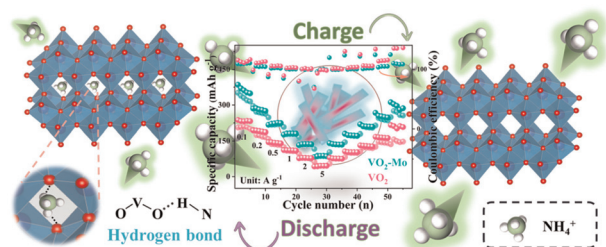
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### High-performance Rh@MgO catalysts for complete dehydrogenation of hydrazine borane: a comparative study

Ahmet Bulut, Mustafa Erkartal,\* Mehmet Yurderi, Tuba Top and Mehmet Zahmakiran\*

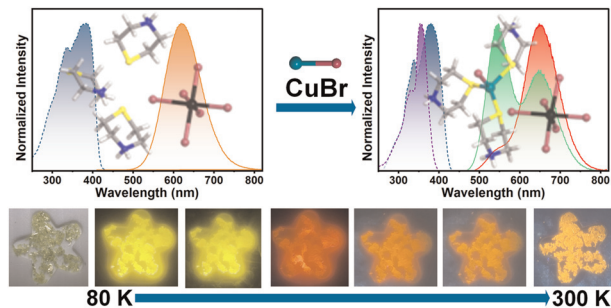
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### Tailoring electronic structure to enhance the ammonium-ion storage properties of VO<sub>2</sub> by molybdenum doping toward highly efficient aqueous ammonium-ion batteries

Yifu Zhang,\* Zhenhua Zhou, Xianfang Tan, Yanyan Liu, Fangfang Zhang, Changgong Meng and Xiaoming Zhu\*

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### Integrating multiple emission centers for photoluminescence regulation in copper–antimony/bismuth halides

Abdusalam Ablez, Hao-Wei Lin, Sheng-Mao Zhang, Guo-Yang Chen, Jia-Hua Luo, Ke-Zhao Du,\* Ze-Ping Wang\* and Xiao-Ying Huang\*

## CORRECTION

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### Correction: Amorphous heterojunction and fluoride-induced effects enable a F-Ni(OH)<sub>2</sub>/Ni–B electrocatalyst for efficient and stable alkaline freshwater/seawater hydrogen evolution at a high current density

Shenyi Chen, Haoming Chu, Ziyin Xie, Lihui Dong, Bin Li, Minguang Fan, Huibing He and Zhengjun Chen\*

