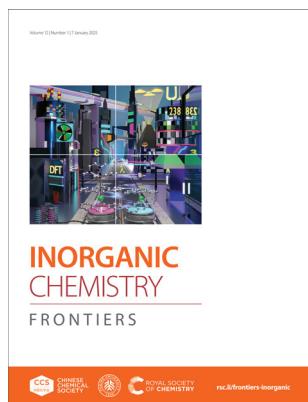


### IN THIS ISSUE

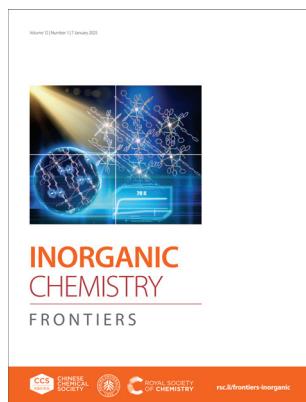
ISSN 2052-1553 CODEN ICFNAW 12(1) 1–382 (2025)



#### Cover

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

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#### Inside cover

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

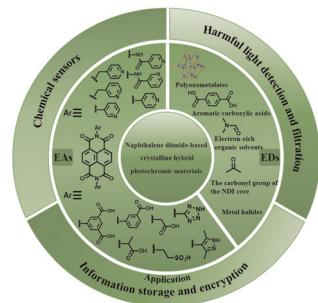
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### REVIEWS

11

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

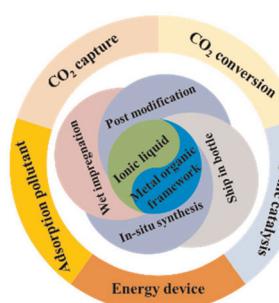
Li Li,\* Jian-Ge Zeng, Ning-Ning Zhang, Yang-Tao Yu, Shu-Hao Li and Yang Hua\*



39

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

Maiyong Zhu



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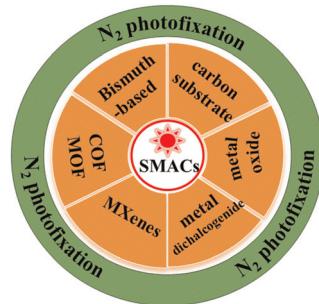


## REVIEWS

85

**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\*

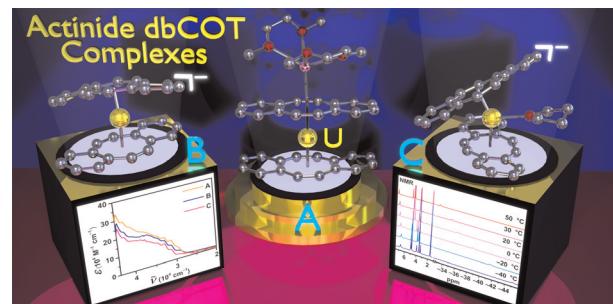


## RESEARCH ARTICLES

118

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

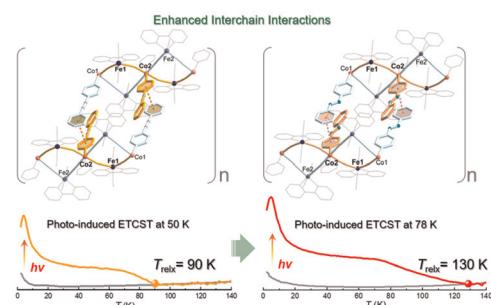
Ernesto Castellanos, Wei Su and Selvan Demir\*



131

**Interchain interactions raised the photo-induced  $[LS] \rightarrow [HS^*]$  transition temperature to 78 K in a cyanide-bridged  $[Fe^{III}Co^{II}]$  chain**

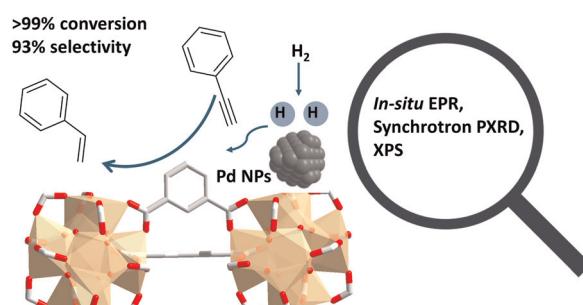
Wen-Jing Jiang, Yin-Shan Meng, Han-Han Lu, Hai-Lang Zhu, Qiang Liu, Chunying Duan, Hiroki Oshio\* and Tao Liu



138

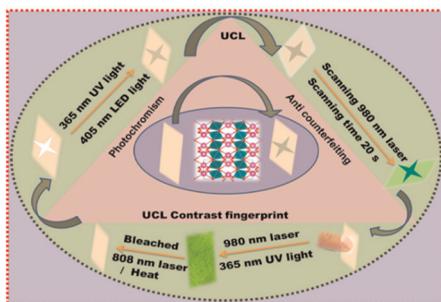
**A novel cerium-based metal–organic framework supported Pd catalyst for semi-hydrogenation of phenylacetylene**

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



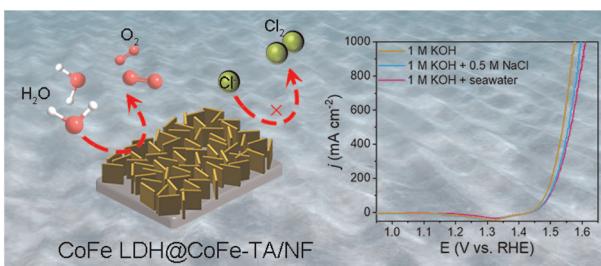
## RESEARCH ARTICLES

144

**Dual-function applications of photochromic  $\text{BiNbO}_4:\text{Er}^{3+}$  ceramics based on reversible upconversion luminescence modulation**

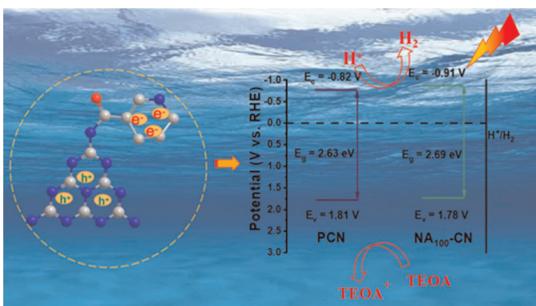
Asad Ullah, Imran Khan, Yangke Cun, Yue Liu, Zhiguo Song, Jianbei Qiu, Cherkasova Tatiana, Anjun Huang,\* Asif Ali Haider\* and Zhengwen Yang\*

154

**Tannic acid salt-modified CoFe-layered double hydroxide boosts stable seawater oxidation at an industrial-level current density**

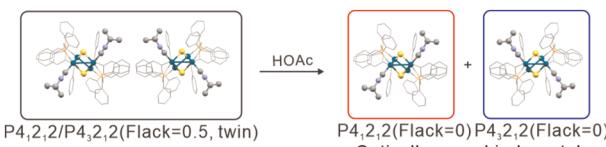
Zhengwei Cai, Yixin Guo, Chaoxin Yang, Zixiao Li, Shengjun Sun, Meng Yue, Xiaoyan Wang, Min Zhang, Hefeng Wang, Yongchao Yao, Dongdong Zheng, Asmaa Farouk, Fatma A. Ibrahim, Yanqin Lv,\* Xuping Sun\* and Bo Tang\*

161

***In situ* construction of donor–acceptor structured  $\text{g-C}_3\text{N}_4$  nanotubes incorporated with pyridine heterocyclic rings for efficient photocatalytic water splitting**

Bo Zhang, Wenjing Luo, Luye Pan, Chenhuan Tian, Peipei Sun, Pengcheng Yan,\* Xianglin Zhu, Haibo Wang,\* Zhao Mo\* and Hui Xu

171

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

Hongwen Deng, Peng Yuan, Kejie Lao, Qijun Fu, Boon K. Teo\* and Nanfeng Zheng\*

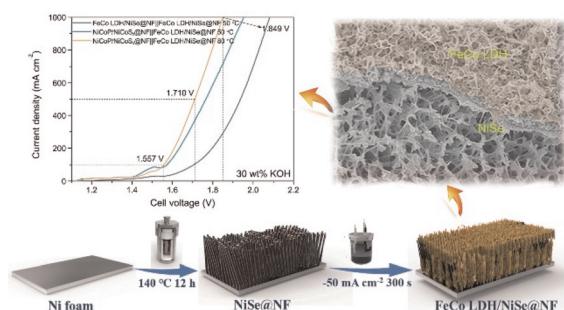


## RESEARCH ARTICLES

179

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

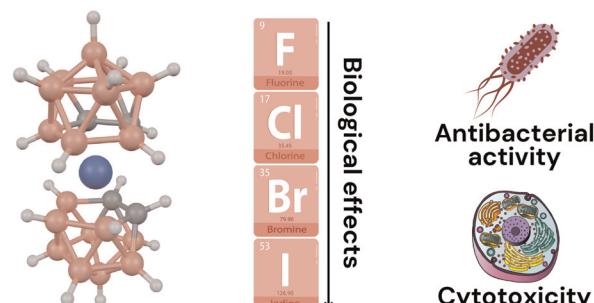
Weiwei Han, Wenyi Wang, Jiahong Liao, Yi He, Xingwang Zhang\* and Chunlin Yu\*



191

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

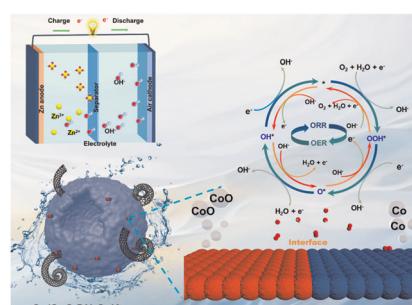
Katarzyna Zakret-Drozdowska, Bożena Szermer-Olearnik, Waldemar Goldman, Michałina Gos, Dawid Drozdowski, Anna Gągor and Tomasz M. Goszczyński\*



205

## Heterogeneous interface engineering to enhance oxygen electrocatalytic activity for rechargeable zinc–air batteries

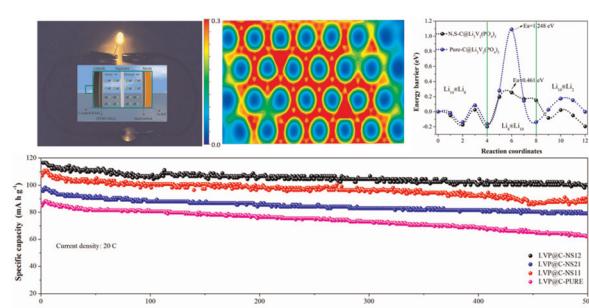
Tao-Tao Li, Yu-Rui Ji, Yi-Meng Wu, Peng-Fei Wang, Zong-Lin Liu, Jie Shu and Ting-Feng Yi\*



217

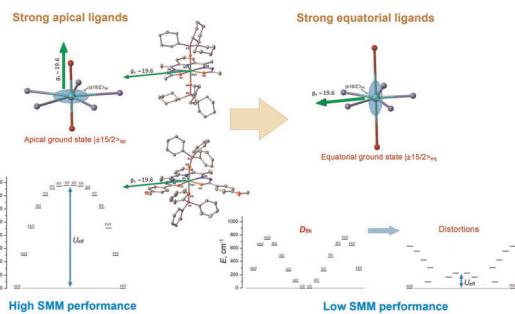
## $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ particles embedded in a N and S co-doped porous carbon cathode for high performance lithium storage: an experimental and DFT study

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



## RESEARCH ARTICLES

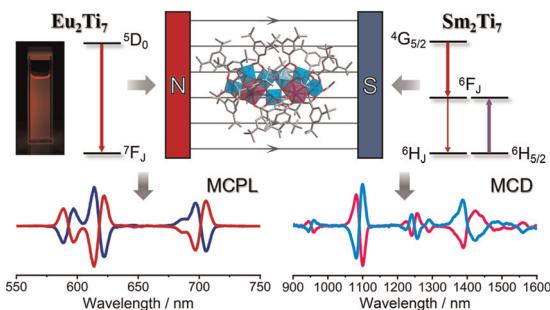
231



**Pentagonal-bipyramidal dysprosium(III) complexes with two apical phosphine oxide ligands and equatorial pentadentate  $\text{N}_3\text{O}_2$  Schiff-base ligands: breakdown of the apical magnetic axiality by a strong equatorial crystal field**

Tamara A. Bazhenova, Vyacheslav A. Kopotkov, Denis V. Korchagin, Elena A. Yureva, Mikhail V. Zhidkov, Alexei I. Dmitriev, Ilya A. Yakushev, Nikolay N. Efimov, Konstantin A. Babeshkin, Vladimir S. Mironov\* and Eduard B. Yagubskii\*

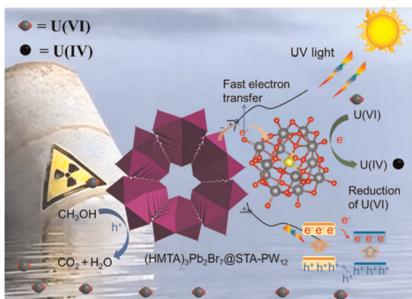
253



**Magneto-optical response and luminescence properties of lanthanide–titanium–oxo clusters  $\text{Eu}_2\text{Ti}_7$  and  $\text{Sm}_2\text{Ti}_7$**

Wei-Dong Liu, Han Xu, Chong-Yang Li, La-Sheng Long, Lan-Sun Zheng and Xiang-Jian Kong\*

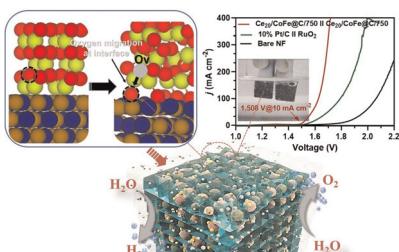
261



**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\*

273



**Interface engineering of highly stable  $\text{CeO}_2/\text{CoFe}@\text{C}$  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\*

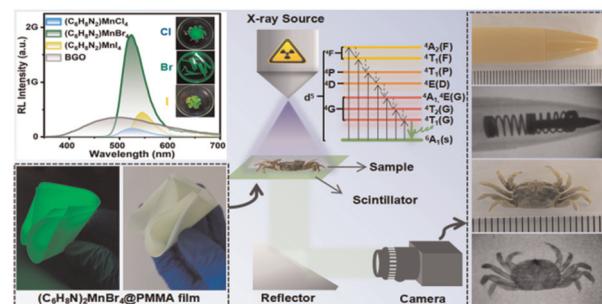


## RESEARCH ARTICLES

291

## Modulation of halogens in organic manganese halides for high-resolution and large-area flexible X-ray imaging

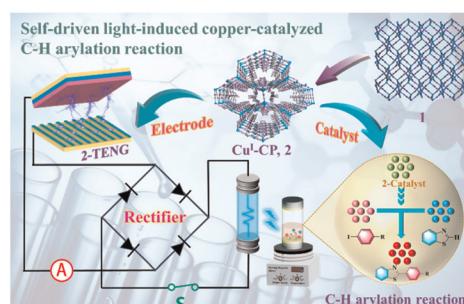
Ying Sun, Qian Ma, Dongheng Zhao, Pan Gao, Qi Wang, Zeyu Guo and Xiaomei Jiang\*



301

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

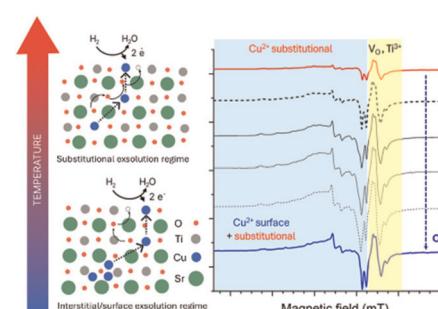
Yue Zhang, Ying-Ying Zhang,\* Shuo Li, Fei Wang, Yuanmeng Tao, Jiaxing Cui, Chao Huang\* and Liwei Mi\*



311

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

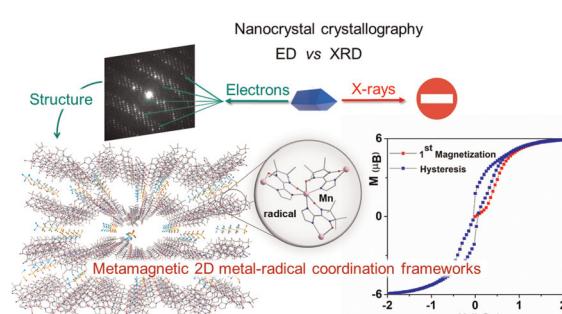
Pietro Mariani, Xiao Sun, Simone Mascotto,\* Luisa Raimondo, Adele Sassella, Damiano Monticelli, Enrico Berretti, Alessandro Lavacchi, Matus Stredansky, Cinzia Cepek, Silvia Mostoni, Carlo Santoro, Barbara Di Credico, Roberto Scotti and Massimiliano D'Arienzo\*



328

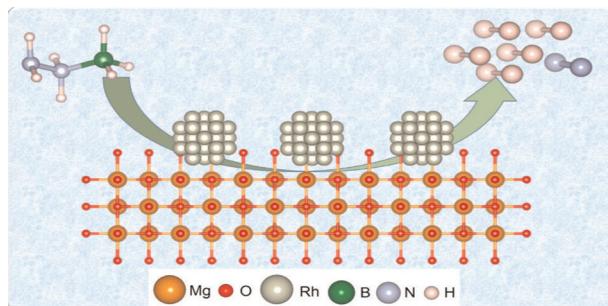
## Electron diffraction unveils the 2D metal-radical framework of two molecule-based magnets

Emre Yörük, Constance Lecourt, Dominique Housset, Yuuta Izumi, Wai Li Ling, Stéphanie Kodjikian, Evgeny Tretyakov, Katsuya Inoue, Kseniya Maryunina, Cédric Desroches, Holger Klein and Dominique Luneau\*



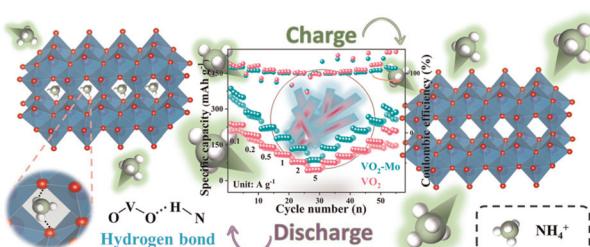
## RESEARCH ARTICLES

342

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

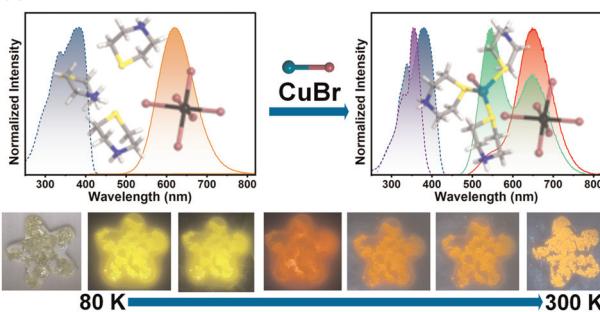
Ahmet Bulut, Mustafa Erkatal,\* Mehmet Yurderi, Tuba Top and Mehmet Zahmakiran\*

355

**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\*

369

**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

379

**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\*

