

## IN THIS ISSUE

ISSN 1359-7345 CODEN CHCOFS 59(77) 11445-11596 (2023)



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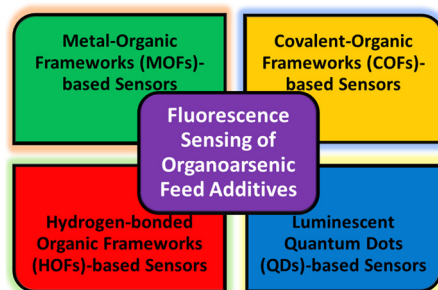
See Yi-Tsu Chan *et al.*,  
pp. 11500-11503.  
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*Chem. Commun.*,  
2023, 59, 11500.

## HIGHLIGHT

11456

### Recent advances in fluorescence-based chemosensing of organoarsenic feed additives using luminescence MOFs, COFs, HOFs, and QDs

Rajdeep Mondal, Ananthu Shanmughan, A. Murugeswari\* and Sankarasekaran Shanmugaraju\*

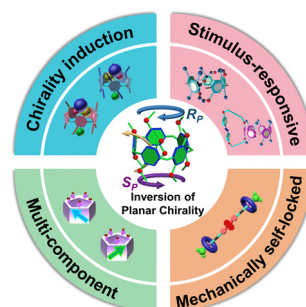


## FEATURE ARTICLES

11469

### Chiroptical regulation of macrocyclic arenes with flipping-induced inversion of planar chirality

Ting Zhao, Wanhua Wu\* and Cheng Yang\*



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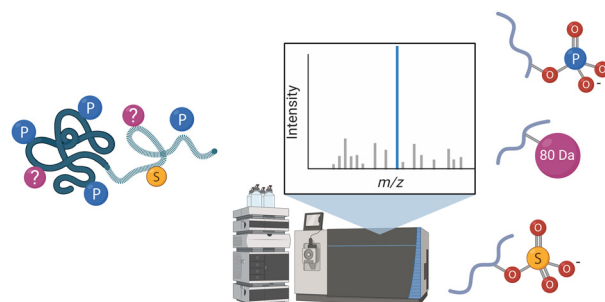


## FEATURE ARTICLES

11484

### Considerations for defining +80 Da mass shifts in mass spectrometry-based proteomics: phosphorylation and beyond

Leonard A. Daly, Christopher J. Clarke, Allen Po, Sally O. Oswald and Claire E. Eyers\*

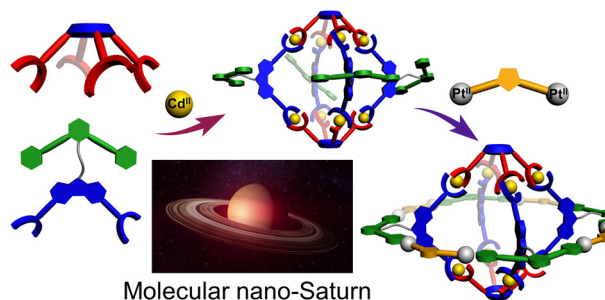


## COMMUNICATIONS

11500

### Sequential self-assembly of calix[4]resorcinarene-based heterobimetallic $\text{Cd}_8\text{Pt}_8$ nano-Saturn complexes

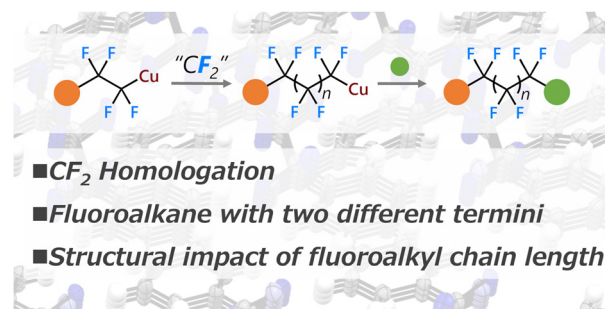
Lipeng He, Lijie Li, Shi-Cheng Wang and Yi-Tsu Chan\*



11504

### Difluoromethylene insertion into fluoroalkyl copper complexes

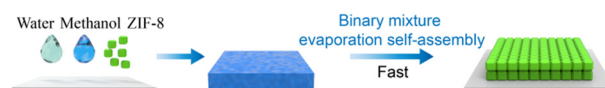
Yuyang Zhou, Ryohei Doi\* and Sensuke Ogoshi\*



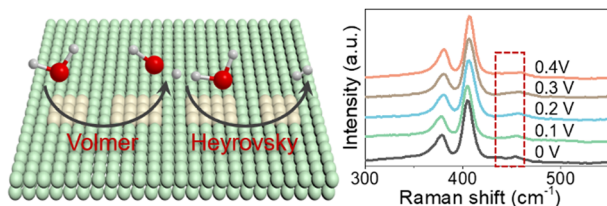
11508

### Methanol–water mixture evaporation-induced self-assembly of ZIF-8 particles

Jikun Yin, Haochen Ye, Xiaoli Xia, Lanhua Yi\* and Tie Wang\*



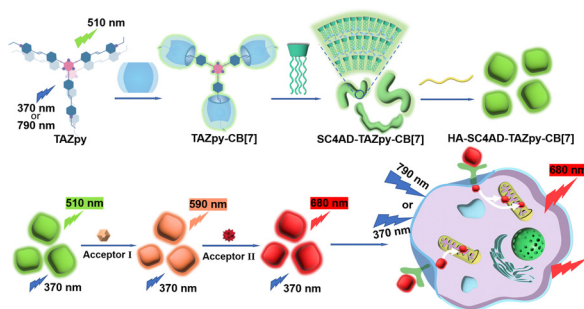
11512



### Coupling MoS<sub>2</sub> nanosheets with CeO<sub>2</sub> for efficient electrocatalytic hydrogen evolution at large current densities

Rui-Qing Li,\* Changming Wang, Shuixiang Xie, Tianyu Hang, Xiaoyu Wan, Jinjue Zeng\* and Wei Zhang\*

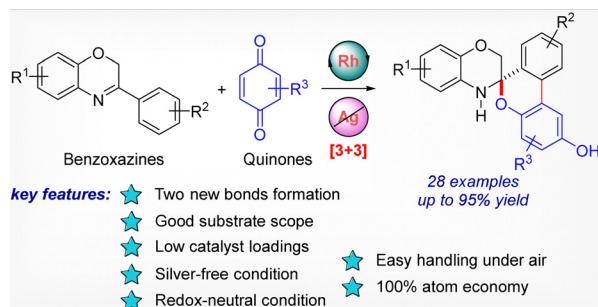
11516



### Triazine pyridinium derivative supramolecular cascade assembly extended FRET for two-photon NIR targeted cell imaging

Xuan Zhao, Xiaolu Zhou, Wen-Wen Xing and Yu Liu\*

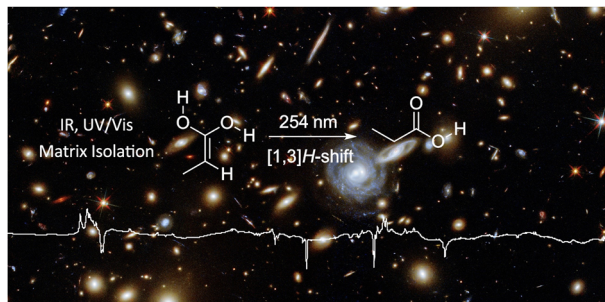
11520



### Rhodium(III)-catalyzed intermolecular [3+3] annulation of benzoxazines with quinone compounds: access to spiro-heterocyclic scaffolds

Qing-Yi Wei, Ze Zhou, Meng-Lian Yao, Ji-Kai Liu, Bin Wu and Jin-Ming Yang\*

11524



### The enol of propionic acid

Akkad Danho, Artur Mardyukov and Peter R. Schreiner\*

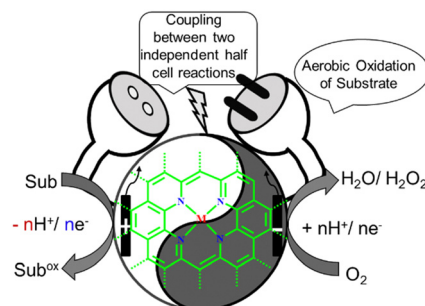


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11528

### The synergy between electrochemical substrate oxidation and the oxygen reduction reaction to enable aerobic oxidation

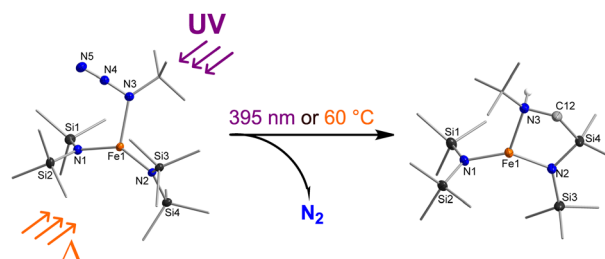
Snehanjali Behera, SK Tarik Aziz, Nisha Singla and Biswajit Mondal\*



11532

### A low-coordinate iron organoazide complex

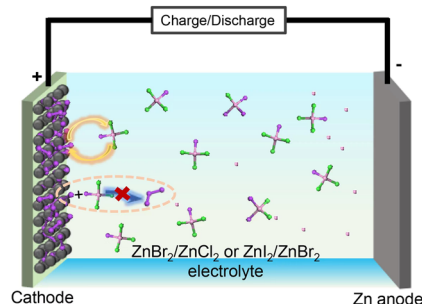
Andres Gonzalez, Serhiy Demeshko, Franc Meyer and C. Gunnar Werncke\*



11536

### Zinc-dual-halide complexes suppressing polyhalide formation for rechargeable aqueous zinc–halogen batteries

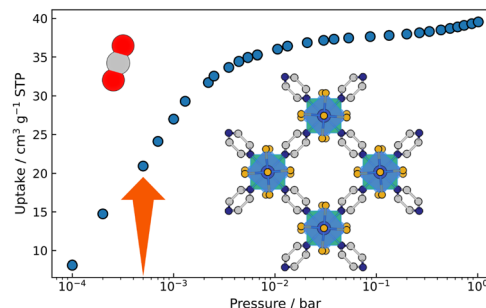
Wanlong Wu, Xiaoyu Yin, Sibao Wang, Quanwei Jiang, Hua-Yu Shi and Xiaoqi Sun\*



11540

### Enhanced CO<sub>2</sub> sorption properties in a polarizable [WO<sub>2</sub>F<sub>4</sub>]<sup>2−</sup>-pillared physisorbent under direct air capture conditions

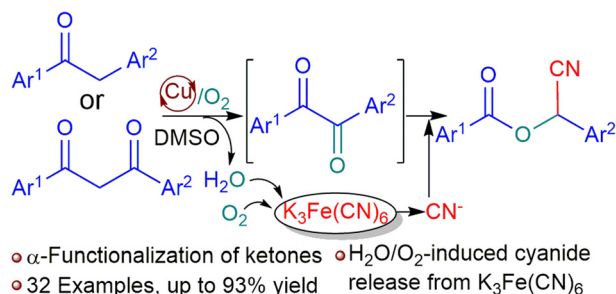
Daniel O’Nolan, Lindsey Chatterton, Timothy Bellamy, J. Todd Ennis and Mustapha Soukri\*





## COMMUNICATIONS

11544

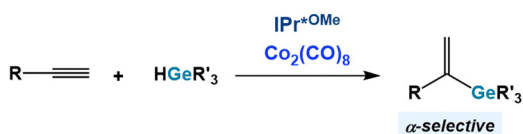


### Catalytic cascade synthesis of cyanohydrin esters via water/ $\text{O}_2$ -induced cyanide transfer from $\text{K}_3\text{Fe}(\text{CN})_6$

Anupam Kumar Singh, Shivani Singh Chauhan and Sukalyan Bhadra\*

11548

### BULKY NHC-COBALT CATALYST

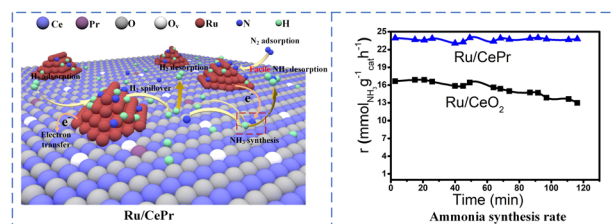


- Earth-abundant Co-catalyst
- Eco-friendly solvent
- High  $\alpha$ -selectivity
- Broad substrate scope
- No harmful by-products
- 24 new products (yield up to 97%)

### Highly selective $\alpha$ -hydrogermylation of alkynes catalyzed by an *in situ* generated bulky NHC–cobalt complex

Małgorzata Bott,\* Aleksandra Mermela and Patrycja Żak

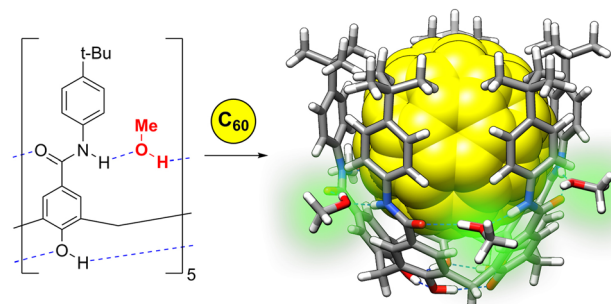
11552



### Boosting the ammonia synthesis activity of ceria-supported Ru catalysts achieved through trace Pr addition

Chunyan Li, Zecheng Zhang, Lingyun Zhou, Biyun Fang, Jun Ni, Jianxin Lin, Bingyu Lin\* and Lilong Jiang\*

11556



### Intermolecular hydrogen bonding in calix[5]arene derived cavitands regulates the molecular recognition of fullerenes

Rubén Álvarez-Yebra, Alba Sors-Vendrell and Agustí Lledó\*

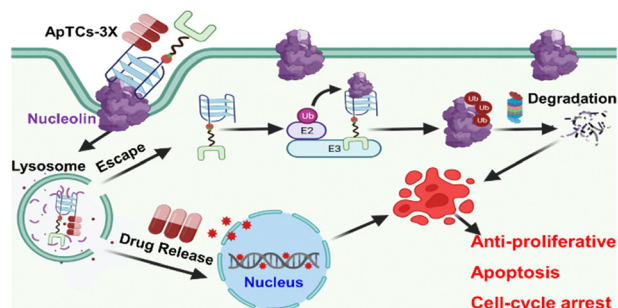


## COMMUNICATIONS

11560

### A cocktail therapeutic strategy based on clofarabine-containing aptamer-PROTAC for enhanced cancer therapy

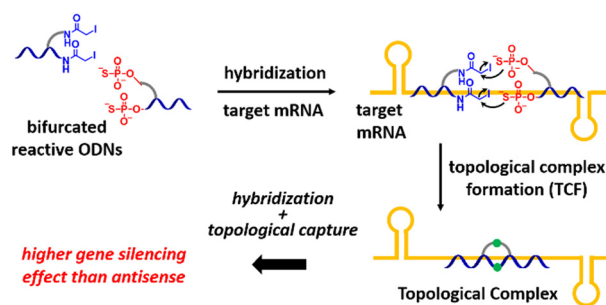
Zhenzhen Chen, Mohan Chen, Ran Liu, Huanhuan Fan\* and Jingjing Zhang\*



11564

### Topological capture of mRNA for silencing gene expression

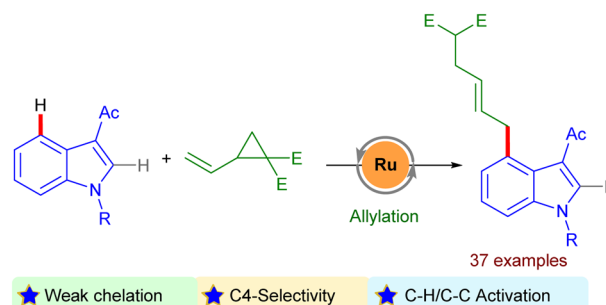
Fangjie Lyu, Takashi Tomita, Naoko Abe, Haruka Hiraoka, Fumitaka Hashiya, Yuko Nakashima, Shiryu Kajihara, Fumiaki Tomoike, Zhaoma Shu, Kazumitsu Onizuka, Yasuaki Kimura\* and Hiroshi Abe\*



11568

### A redox-neutral weak carbonyl chelation assisted C4–H allylation of indoles with vinylcyclopropanes

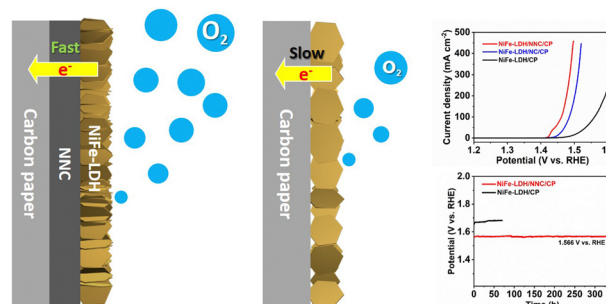
Shubhajit Basak, Tripti Paul and Tharmalingam Punniyamurthy\*



11572

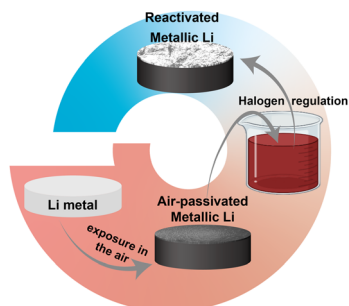
### Amazing enhancement of OER performances: creating a well-designed functional Ni and N-doped carbon layer as a support material for fabricating a NiFe-LDH electrocatalyst

Yu Wei, Zhenze Han, Taolue Liu, Xin Ding\* and Yan Gao\*



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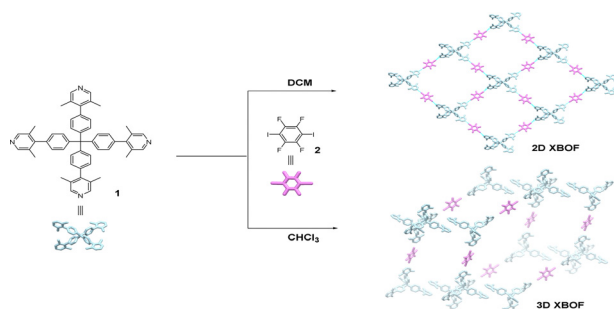
11576



### Reactivation of an air-passivated lithium metal anode through halogen regulation

Yiqing Yao, Hui Gu, Jiahang Zou, Hanxu Yang, Qingan Zhang, Zhipeng Jiang\* and Yongtao Li\*

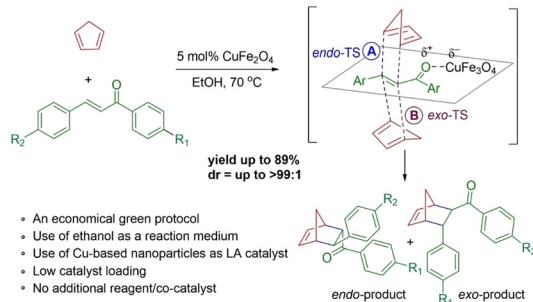
11580



### Two and three-dimensional halogen-bonded frameworks: self-assembly influenced by crystallization solvents

Chuan-Zhi Liu,\* Jing-Jing Wang, Bo Yang, Zhong-Yi Li, Meng Yan, Xin-Ming Liu, Zhi-Yuan Hu,\* Lan-Tao Liu and Zhan-Ting Li\*

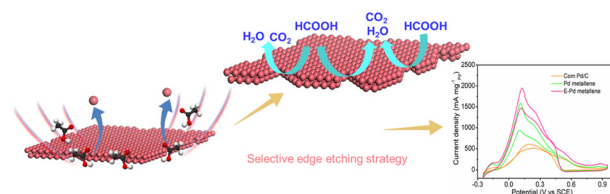
11584



### Copper ferrite nanoparticles catalyzed the challenging Diels–Alder reaction of aromatic chalcones with cyclopentadiene

Divya Tagra, Meha Bhargava and Jyoti Agarwal\*

11588



### Selective edge etching of Pd metallene for enhanced formic acid electrooxidation

Ze Liu,\* Xiaohang Ge, Yanrui Wang, Mang Niu, Weiyong Yuan and Lian Ying Zhang\*





## CORRECTIONS

11592

**Correction: Stannyl phosphaketene as a synthon for phosphorus analogues of  $\beta$ -lactams**

Yong-an Luo, Zhao Zhao, Ting Chen, Yanguo Li, Yufen Zhao, Douglas W. Stephan\* and Yile Wu\*

11593

**Correction: Cyclopentane FIT-PNAs: bright RNA sensors**

Odelia Tepper,\* Hongchao Zheng, Daniel H. Appella\* and Eylon Yavin\*

