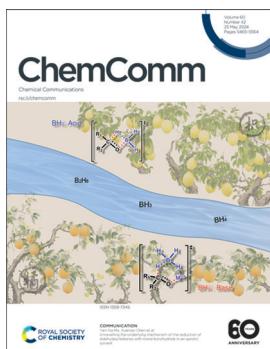


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### IN THIS ISSUE

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### Cover

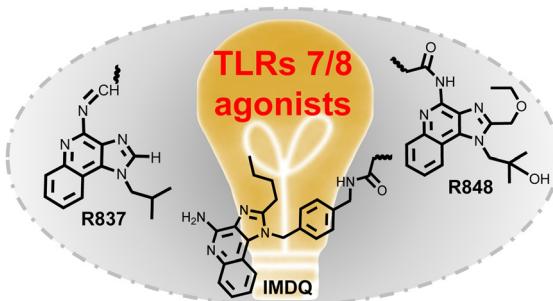
See Yan-Na Ma,  
Xuenian Chen *et al.*,  
pp. 5486–5489.  
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*Chem. Commun.*,  
2024, **60**, 5486.

### FEATURE ARTICLE

5474

## Molecule engineering strategy of toll-like receptor 7/8 agonists designed for potentiating immune stimuli activation

Liuwei Gu, Xiaojie Kong, Mengyan Li, Rui Chen, Ke Xu, Guo Li,\* Yulin Qin\* and Li Wu\*

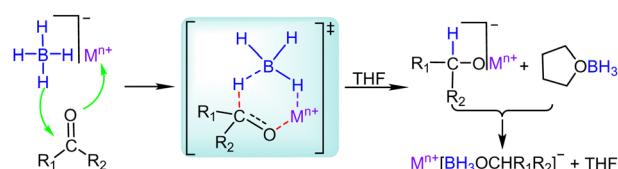


### COMMUNICATIONS

5486

## Unravelling the underlying mechanism of the reduction of aldehydes/ketones with metal borohydride in an aprotic solvent

Xinying Li, Jia-Xin Kang, Shasha Liang, Xi-Hong Long, Yan-Na Ma\* and Xuenian Chen\*



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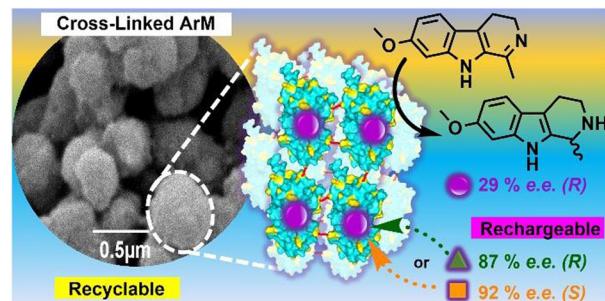
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## COMMUNICATIONS

5490

**Redox-reversible siderophore-based catalyst anchoring within cross-linked artificial metalloenzyme aggregates enables enantioselectivity switching**

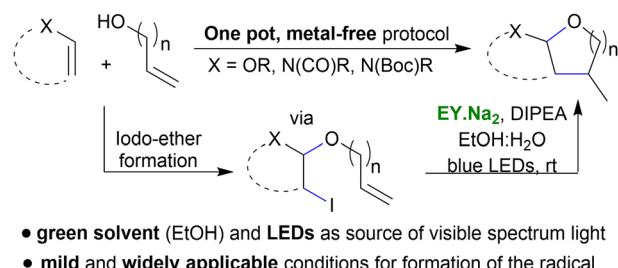
Alex H. Miller,\* Seán A. Thompson, Elena V. Blagova, Keith S. Wilson, Gideon Grogan and Anne-K. Duhme-Klair\*



5494

**Eosin, blue LEDs and DIPEA are employed in a simple synthesis of (poly)cyclic *O,O*- and *N,O*-acetals**

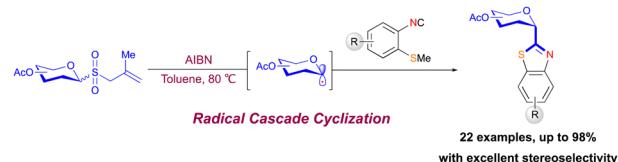
Ioannis Papadopoulos, Artemis Bosveli, Tamsyn Montagnon, Ioannis Zachilas, Dimitris Kalaitzakis and Georgios Vassilikogiannakis\*



5498

**Preparing glycosyl benzothiazoles from 2-isocyanoaryl thioethers and glycosyl radicals under thermal conditions**

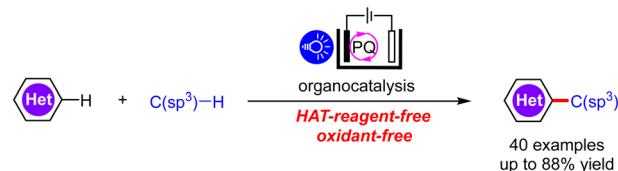
Daqi Liu, Yang Zhang\* and Dawen Niu\*



5502

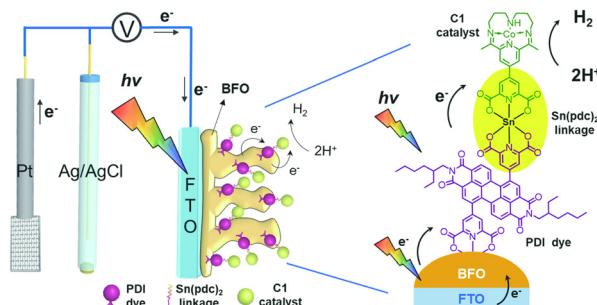
**Organophotoelectrocatalytic C(sp<sup>2</sup>)–H alkylation of heteroarenes with unactivated C(sp<sup>3</sup>)–H compounds**

Qinhui Wan, Xia-Die Wu, Zhong-Wei Hou,\* Yongmin Ma and Lei Wang\*



## COMMUNICATIONS

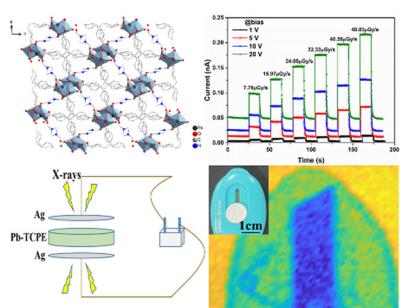
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**Promoting H<sub>2</sub> generation of BiFeO<sub>3</sub> photocathodes by a catalyst-sensitizer dyad linked with Sn(dipicolinate)<sub>2</sub>**

Meiqi Yan, Yingzheng Li, Chang Liu, Ziqi Zhao, Yu Shan, Fei Li, Licheng Sun and Fusheng Li\*

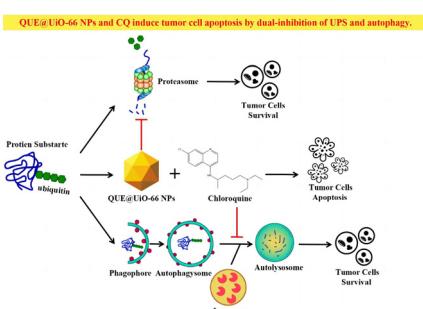
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**Tetraphenylene-based semiconductive metal-organic framework crystals for direct X-ray detection and imaging**

Qi Luo, Yuxia Li, Xin Huang, Yi Zheng, Qi Gu,\* Shuaihua Wang\* and Shaofan Wu

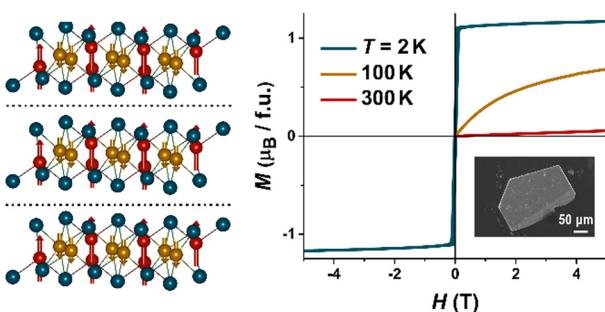
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**Quercetin@UiO-66 NPs and chloroquine in combined tumor therapy by dual autophagy-ubiquitination system blockade**

Yinzhu Chen, Feiyi Yan, Yue Yang, Lipeng Zhang, Xuepeng Teng,\* Shuaiyu Wang\* and Tianlong Liu\*

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**Bulk ferromagnetism in cleavable van der Waals telluride NbFeTe<sub>2</sub>**

Anna V. Stepanova, Andrei V. Mironov, Alexey V. Bogach, Andrey N. Azarevich, Igor A. Presniakov, Alexey V. Sobolev, Denis A. Pankratov, Vladimir A. Zayakhanov, Sergey S. Starchikov, Valeriy Yu. Verchenko\* and Andrei V. Shevelkov

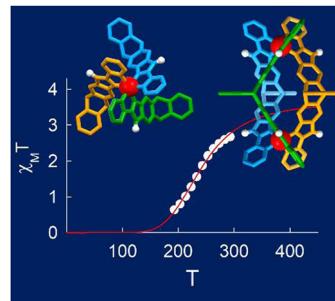


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**Triptycene-based diiron(II) mesocates: spin-crossover in solution**

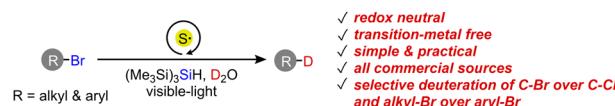
Riccardo Mobili,\* Giovanni Preda, Daniele Dondi, Enrico Monzani, Dhanalakshmi Vadivel, Chiara Massera, Dario Pasini and Valeria Amendola\*



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**Dehalogenative deuteration of alkyl and aryl bromides by thiyl radical catalysis under visible-light irradiation**

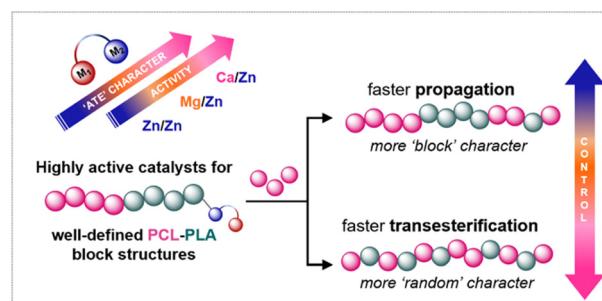
Jiin Lee and Sunggi Lee\*



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**Cooperative heterometallic catalysts: balancing activity and control in PCL-block-PLA copolymer synthesis**

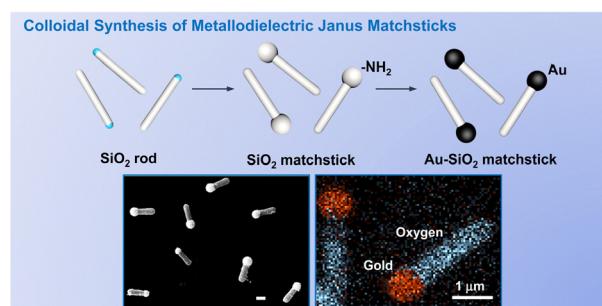
Maisarah Abdul Rahman, Thomas J. Neal and Jennifer A. Garden\*



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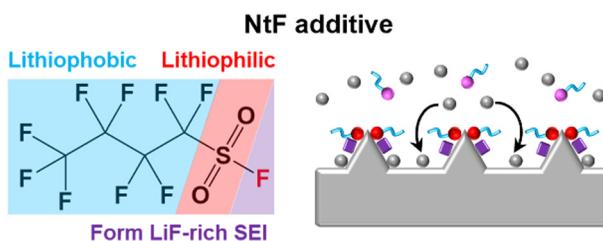
**Colloidal synthesis of metallocodielectric Janus matchsticks**

Yijiang Mu, Wendi Duan, Yuxuan Dai, Patrick A. Sullivan, Leila F. Deravi, Yufeng Wang and Daeyeon Lee\*



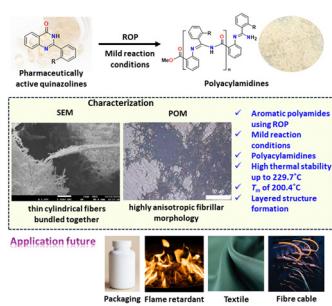
## COMMUNICATIONS

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**A bifunctional surfactant-like electrolyte additive for a stable lithium metal anode**

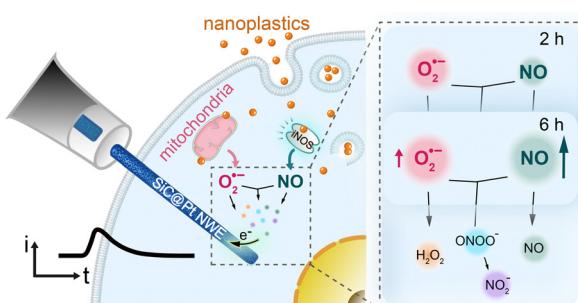
Hanxu Yang,\* Jiahang Zou and Zhengquan Xiao

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**Unprecedented ROP of quinazolinones to polyacrylamidines using a cesium catalyst**

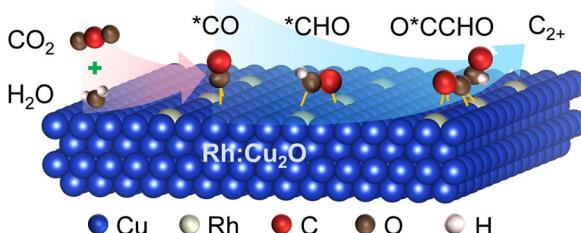
Shweta Sagar, Priyanku Nath, Devadkar Ajitrao Kisan, Himadri Karmakar, Aranya Ray, Alok Sarkar\* and Tarun K. Panda\*

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**Nanoelectrochemistry monitoring of intracellular reactive oxygen and nitrogen species induced by nanoplastic exposure**

Hui-Qian Wu, Yu-Ting Qi, Bing-Yi Guo, Yi Zhao, Xin-Wei Zhang\* and Wei-Hua Huang\*

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**Promoted C-C coupling on Rh:Cu<sub>2</sub>O****Promoting C-C coupling for CO<sub>2</sub> reduction on Cu<sub>2</sub>O electrocatalysts with atomically dispersed Rh atoms**

Chengcheng Feng, Ruizhi Duan, Haibo Chi, Fengyuan Liu, Rui Song, Mingrun Li, Wenguang Yu, Chunmei Ding\* and Can Li\*

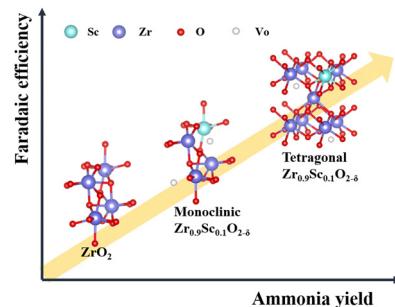


## COMMUNICATIONS

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**Crystalline modulation of zirconia for efficient nitrate reduction to ammonia under ambient conditions**

Zhiruo Tao, Haitao Yin, Yaxin Lv, Haoran Guo,\*  
 Jun Song Chen, Xiaoyu Ye, Haohong Xian,\*  
 Shengjun Sun and Tingshuai Li\*



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**Palladium/norbornene-catalyzed diversified trifunctionalization of aryl-thianthreniums**

Jiang Nan,\* Min Lei, Gaoyang Chen, Yangmin Ma,  
 Chengyuan Liang and Jing Wang

