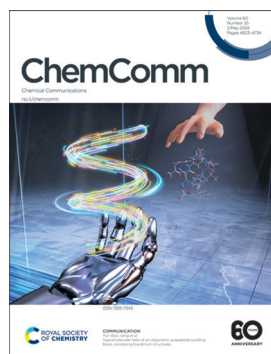


## IN THIS ISSUE

ISSN 1359-7345 CODEN CHCOFS 60(35) 4623-4734 (2024)



### Cover

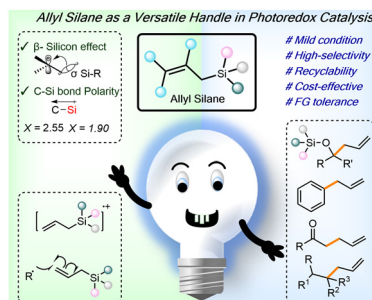
See Yun-Bao Jiang *et al.*,  
pp. 4648-4651.  
Image reproduced  
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Yun-Bao Jiang from  
*Chem. Commun.*,  
2024, 60, 4648.

## HIGHLIGHT

4633

### Allylsilane as a versatile handle in photoredox catalysis

Nand Lal, Sanket B. Shirsath, Puja Singh, Deepshikha and  
Aslam C. Shaikh\*

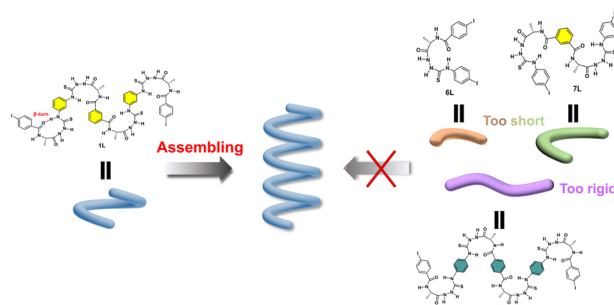


## COMMUNICATIONS

4648

### Supramolecular helix of an oligomeric azapeptide building block containing four $\beta$ -turn structures

Yingdan Zhao, Xiaosheng Yan and Yun-Bao Jiang\*



# RSC Applied Interfaces

GOLD  
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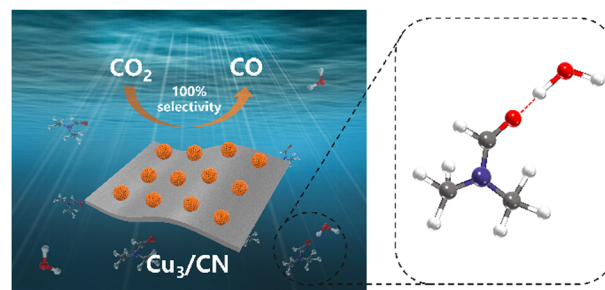
Fundamental questions  
Elemental answers

## COMMUNICATIONS

4652

**Carbon nitride nanosheet-supported CuO for efficient photocatalytic CO<sub>2</sub> reduction with 100% CO selectivity**

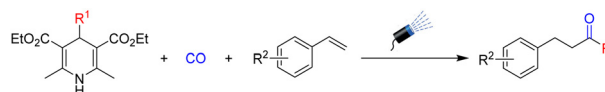
Xingxi Lv, Xiaomeng You, Jingyi Pang, Hang Zhou, Zejiang Huang, Ye-Feng Yao and Xue-Lu Wang\*



4656

**Photoredox-catalyzed carbonylative acylation of styrenes with Hantzsch esters**

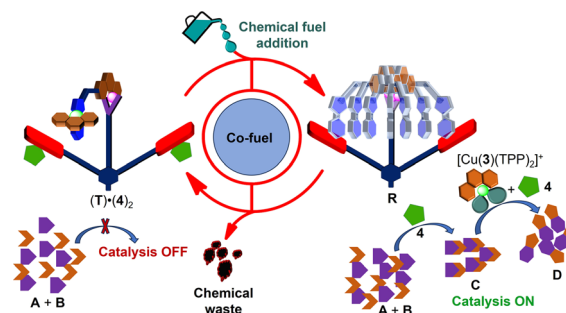
Qiangwei Li, Le-Cheng Wang, Zhi-Peng Bao and Xiao-Feng Wu\*



4659

**Dissipative sequential catalysis via six-component machinery**

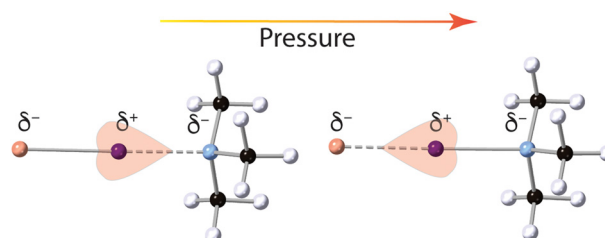
Debabrata Mondal, Emad Elramadi, Sohom Kundu and Michael Schmittel\*



4663

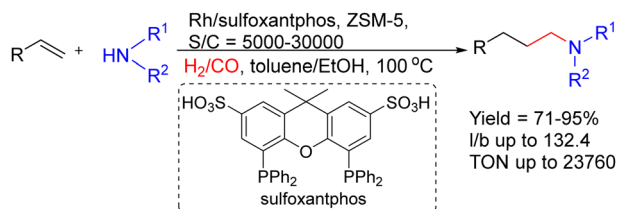
**Exploring the full range of N···I···X halogen-bonding interactions within a single compound using pressure**

Richard H. Jones,\* Craig L. Bull, Nicholas P. Funnell, Kevin S. Knight and William G. Marshall



## COMMUNICATIONS

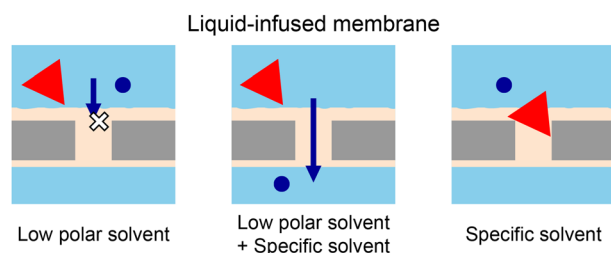
4667



### Highly active and regioselective hydroaminomethylation of olefins catalyzed by Rh/sulfoxantphos with ZSM-5

Xiaoshuang Yuan, Xueqing Zhang, Zhaohui Zheng, Shuhui Sun, Xiaofei Jia\* and Shuxiang Dong

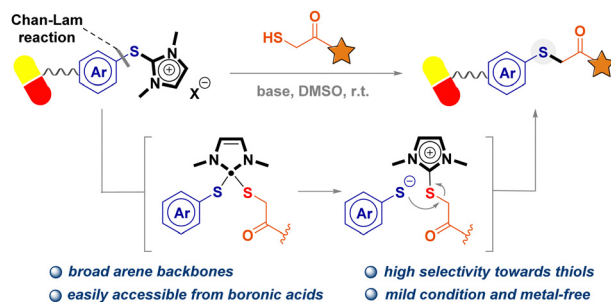
4671



### Antifouling binary liquid-infused membranes for biological sample pretreatment

Ying Dong, Jing Li\* and Chuixiu Huang\*

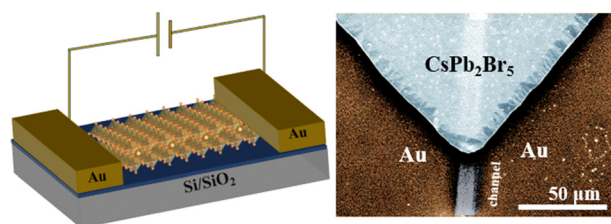
4675



### The Chan-Lam-type synthesis of thioimidazolium salts for thiol-(hetero)arene conjugation

Yue Li, Dongchang Han, Zhibin Luo,\* Xiaomeng Lv and Bin Liu\*

4679



### Sizeable square CsPb<sub>2</sub>Br<sub>5</sub> nanosheets for photodetection

Shuang Li, Fenyun Wang, Shunhong Dong, Haoyun Dou, Tingfeng Wang and Hong-En Wang\*



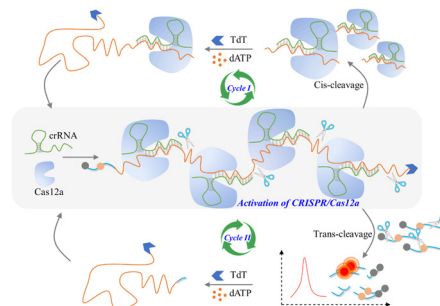


## COMMUNICATIONS

4683

### One-pot isothermal amplification permits recycled activation of CRISPR/Cas12a for sensing terminal deoxynucleotidyl transferase activity

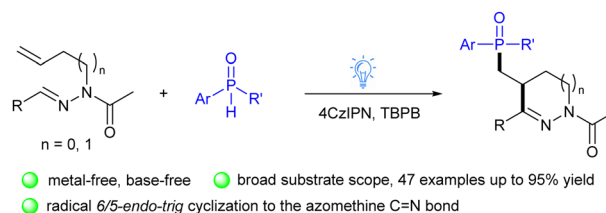
Jianguo Xu,\* Haidong Yang, Zhuqi Sui, Xinyue Yuan, Lee Jia and Longhua Guo\*



4687

### Photo-induced phosphorylation/cyclization of *N*-homoallyl and *N*-allyl aldehyde hydrazones to access phosphorylated tetrahydropyridazines and dihydropyrazoles

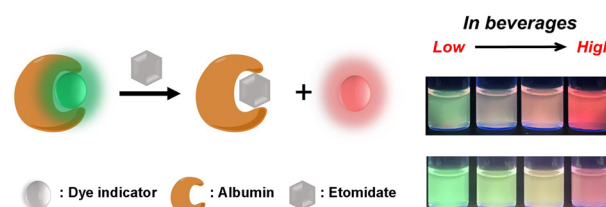
Lingli Liu, Yechun Wu, Chengli Xiang, Jin-Tao Yu\* and Changduo Pan\*



4691

### Ratiometric determination of etomidate based on an albumin-based indicator displacement assay (IDA)

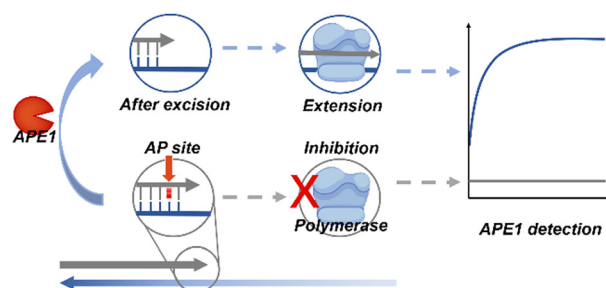
Yutian Zhao, Yanan Guo, Zhongyong Xu,\* Taoyuze Lv, Lei Wang, Mingle Li, Xiaoqiang Chen, Bin Liu\* and Xiaojun Peng



4695

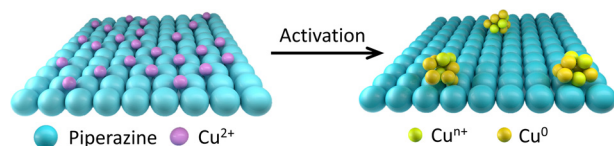
### Enhancing APE1 detection through apurinic/apryrimidinic site inhibition of DNA polymerase: an innovative, highly sensitive approach

Zhijun Liu, Bei Yan, Huan Liu, Xiao Liu, Xianjin Xiao\* and Zhihao Ming\*



## COMMUNICATIONS

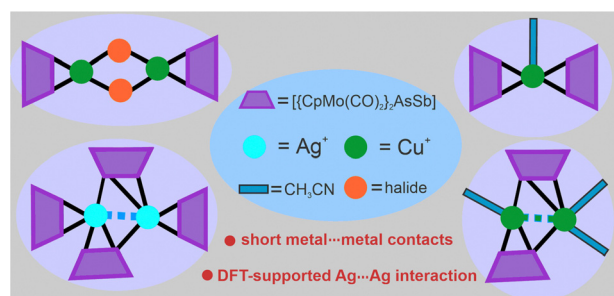
4699



### Ligand-engineering Cu-based catalysts to accelerate the electrochemical reduction of CO<sub>2</sub>

Ying Liang, Rui Zhang, Kaihong Xiao, Fenghui Ye, Xinyue Ma, Wei Liu,\* Hanle Yin, Baoguang Mao,\* Xiangru Song and Chuangang Hu\*

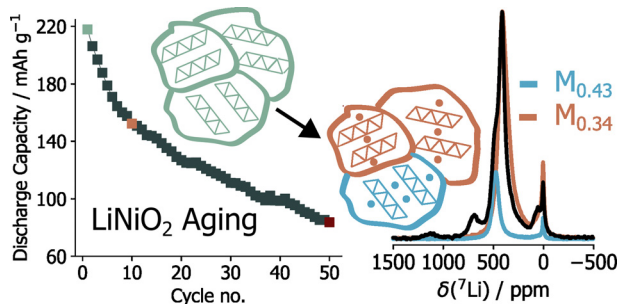
4703



### Supramolecular compounds assembled from the heteroleptic tetrahedral complex [CpMo(CO)<sub>2</sub>]<sub>2</sub>(μ,η<sup>2</sup>-AsSb) and metal salts

Mehdi Elsayed Moussa, Pavel A. Shelyganov, Michael Seidl, Lisa Zimmermann and Manfred Scheer\*

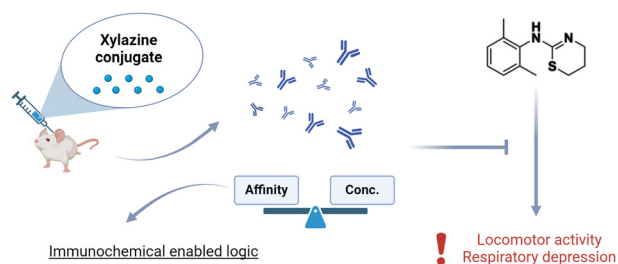
4707



### New insights into aging in LiNiO<sub>2</sub> cathodes from high resolution paramagnetic NMR spectroscopy

H. Nguyen, P. Kurzals, M. Bianchini, K. Seidel and R. J. Clément\*

4711



### Evaluation of a hapten conjugate vaccine against the "zombie drug" xylazine

Mingliang Lin, Lisa M. Eubanks, Bin Zhou and Kim D. Janda\*

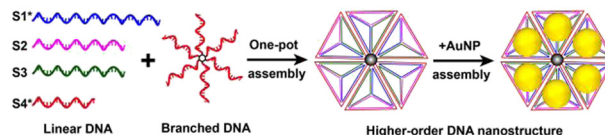


## COMMUNICATIONS

4715

## Efficient one-pot assembly of higher-order DNA nanostructures by chemically conjugated branched DNA

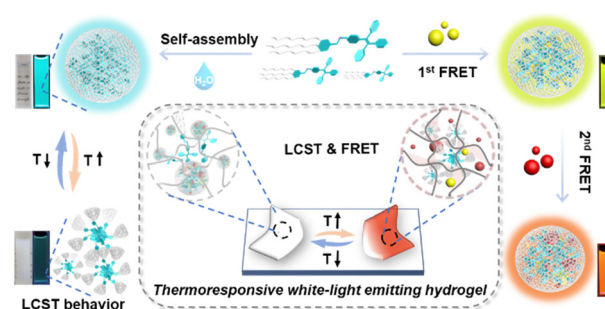
Raja Muhammad Aqib, Yuang Wang, Jianbing Liu\* and Baoquan Ding\*



4719

## A sequential light-harvesting system with thermosensitive colorimetric emission in both aqueous solution and hydrogel

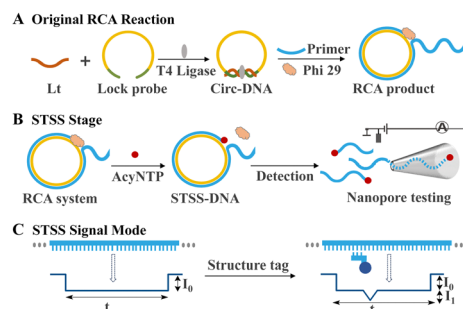
Lu Tang, Zhiying Wu, Qiaona Zhang, Qiulin Hu, Xiaoman Dang, Fengyao Cui, Long Tang\* and Tangxin Xiao\*



4723

## The single strand template shortening strategy improves the sensitivity and specificity of solid-state nanopore detection

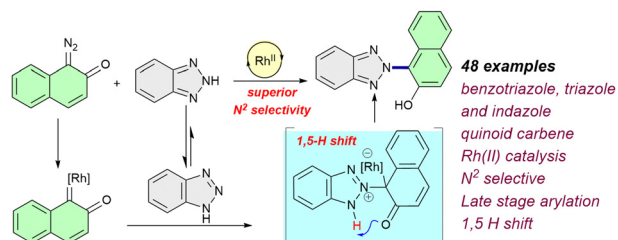
Jin Yu, Chunxu Yu, Yanru Li, Chunmiao Yu, Yesheng Wang, Ruiping Wu\* and Bingling Li\*



4727

Rh(II)-catalysed  $N^2$ -selective arylation of benzotriazoles and indazoles using quinoid carbenes via 1,5-H shift

Souradip Sarkar, Sourav Bhunya, Subarna Pan, Arnadeep Datta, Lisa Roy\* and Rajarshi Samanta\*



## RETRACTION

4731

**Retraction: Aqueous aerobic oxidation of alkyl arenes and alcohols catalyzed by copper(II) phthalocyanine supported on three-dimensional nitrogen-doped graphene at room temperature**

Mojtaba Mahyari, Mohammad Sadegh Laeini and Ahmad Shaabani\*

