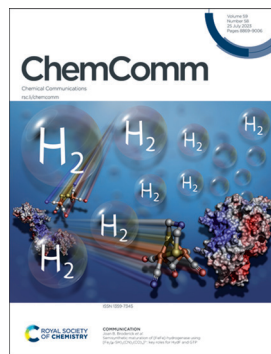


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ISSN 1359-7345 CODEN CHCOFS 59(58) 8869-9006 (2023)



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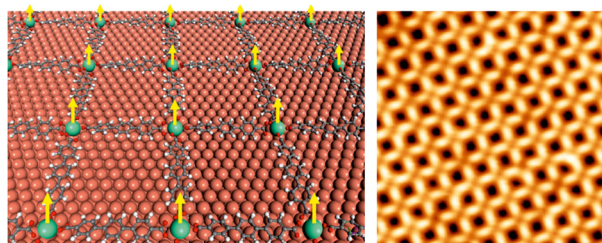
See Joan B. Broderick *et al.*, pp. 8929–8932. Image reproduced by permission of Joan B. Broderick from *Chem. Commun.*, 2023, 59, 8929.

## HIGHLIGHT

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### Lanthanide-directed metal–organic coordination networks

Sofia O. Parreiras, José M. Gallego\* and David Écija\*

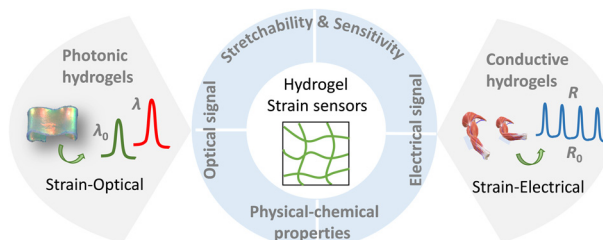


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### Nanocomposite hydrogels for strain sensing based on optical and electrical signals: a review

Youfeng Yue



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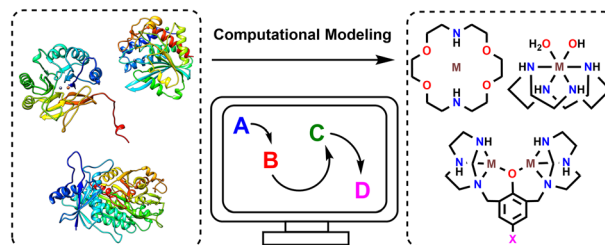


## FEATURE ARTICLES

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## Distinct chemical factors in hydrolytic reactions catalyzed by metalloenzymes and metal complexes

Leonardo F. Serafim, Vindi M. Jayasinghe-Arachchige, Lukun Wang, Parth Rathee, Jiawen Yang, Sreerag Moorkkannur N. and Rajeev Prabhakar\*

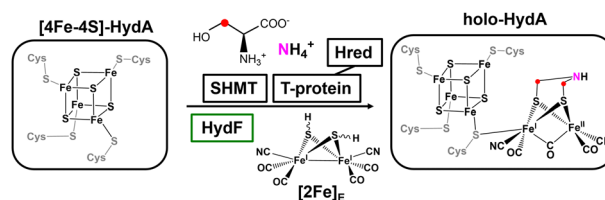


## COMMUNICATIONS

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Semisynthetic maturation of [FeFe]-hydrogenase using  $[\text{Fe}_2(\mu\text{-SH})_2(\text{CN})_2(\text{CO})_4]^{2-}$ : key roles for HydF and GTP

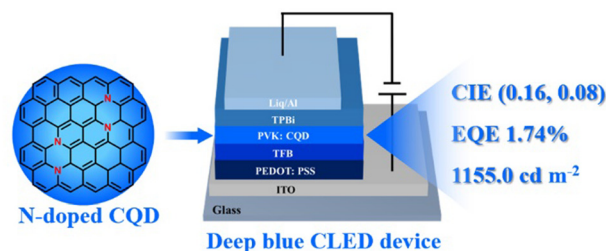
Batuhan Balci, Roark D. O'Neill, Eric M. Shepard, Adrien Pagnier, Alexander Marlott, Michael T. Mock, William E. Broderick and Joan B. Broderick\*



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## Nitrogen-doped carbon dots for efficient deep-blue light-emitting diodes with CIE closely approaching the HDTV standard color Rec.BT.709

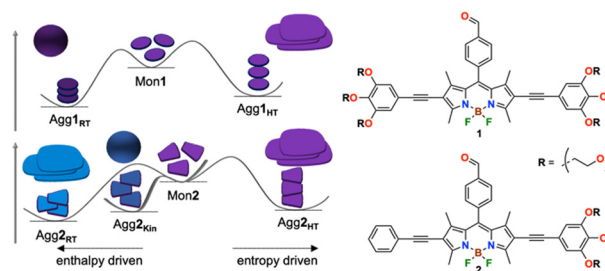
Peng Huang, Ming-Zhu Li, Chun-Fa Wen, Hang-Yue Zhou, Jing-Xin Jian\* and Qing-Xiao Tong\*



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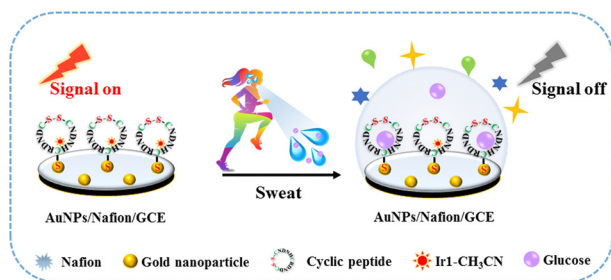
## Amphiphile desymmetrisation-induced steric relief governs self-assembly pathways in aqueous media

Nils Bäumer, Soichiro Ogi, Lorenz Borsdorf, Shigehiro Yamaguchi\* and Gustavo Fernández\*



## COMMUNICATIONS

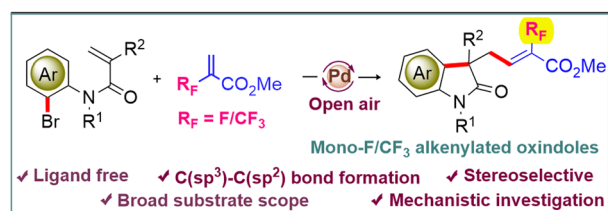
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### A sensitive and noninvasive cyclic peptide-based electrogenerated chemiluminescence biosensing method for the determination of sweat glucose

Hong Huang, Manping Qian, Qiang Gao, Chengxiao Zhang and Honglan Qi\*

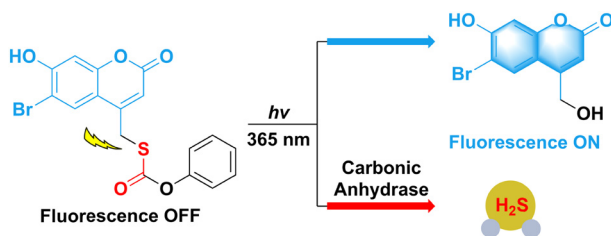
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### Ligand-free Pd-catalyzed double Heck reaction of *N*-(*o*-bromoaryl)acrylamides with $\alpha$ -F/CF<sub>3</sub>-acrylates

Ruchi Sharma, Swati Jain, Naveen Sihag and M. Ramu Yadav\*

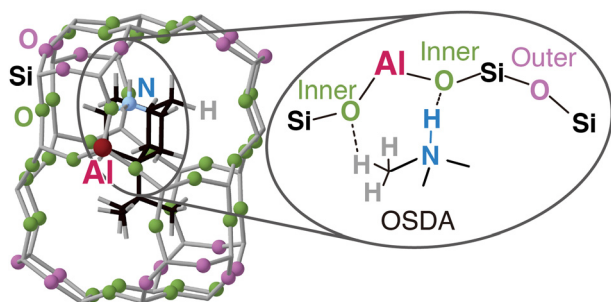
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### A photoactivated H<sub>2</sub>S donor based on a coumarin structure with real-time monitoring capability

Nianwei Wang, Yuxi Fang, Xuan Wang, Jiao Bai,\* Huiming Hua and Dahong Li\*

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### Analysis of Al site-directing ability of organic structure-directing agents in FER and CHA zeolites: a computational exploration of energetic preferences

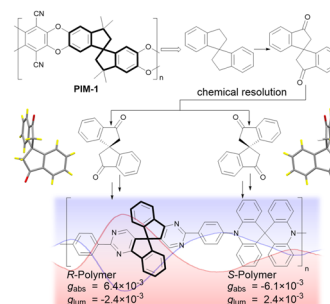
Kota Oishi, Koki Muraoka\* and Akira Nakayama\*



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### Chemical resolution of spiroindanones and synthesis of chiroptical polymers with circularly polarized luminescence

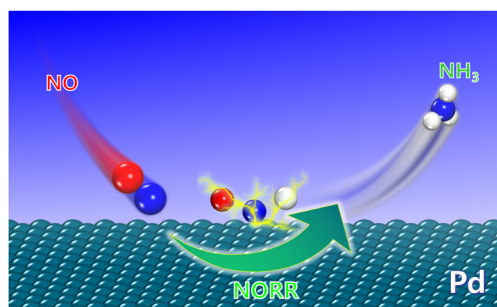
Jiping Du, Hui Li, Tanping Wu, Menglei Wang, Rui Cheng, Di Wu,\* Yudong Yang and Jingbo Lan\*



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### Palladium metallene for nitric oxide electroreduction to ammonia

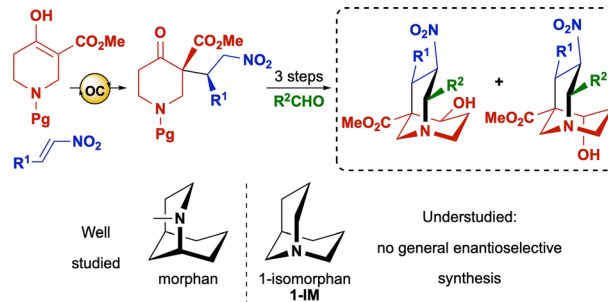
Ying Zhang, Jiaqi Xiang, Kai Chen, Yali Guo, Dongwei Ma and Ke Chu\*



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### Stereoselective synthesis of highly substituted 1-isomorphans (1-azabicyclo[3.3.1]nonanes)

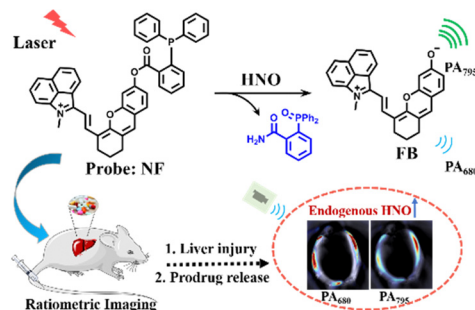
Diego A. Cruz-Aguilar\* and Marcos Hernández-Rodríguez\*



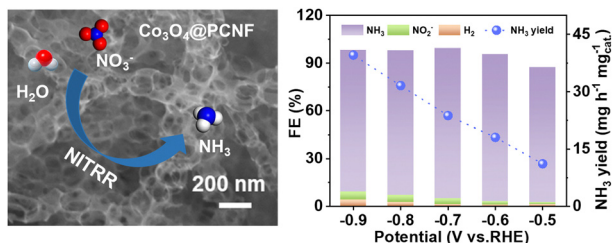
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### Ratiometric photoacoustic imaging of endogenous HNO *in vivo* for assessing prodrug release and liver injury

Xiaopeng Fan,\* Hongzhen Wang, Wen Yang,\* Tianbing Ren\* and Lin Yuan



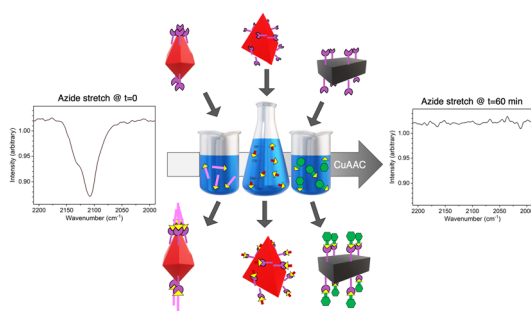
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### Co<sub>3</sub>O<sub>4</sub> nanoparticles embedded in porous carbon nanofibers enable efficient nitrate reduction to ammonia

Li Zhong, Qiru Chen, Haitao Yin, Jun Song Chen, Kai Dong, Shengjun Sun, Jun Liu,\* Haohong Xian\* and Tingshuai Li\*

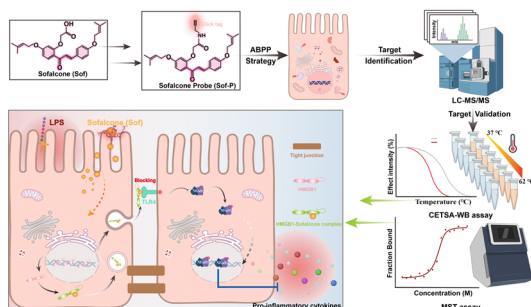
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### Rapid post-synthetic modification of porous coordination cages with copper-catalyzed click chemistry

Michael R. Dworzak, Christine M. Montone, Nicole I. Halaszynski, Glenn P. A. Yap, Christopher J. Kloxin\* and Eric D. Bloch\*

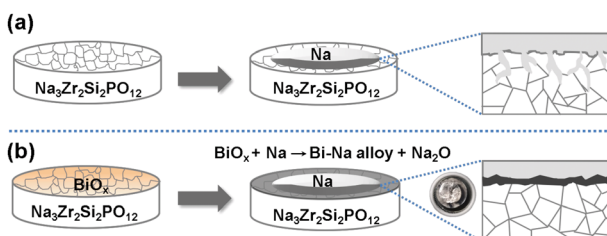
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### Chemoproteomics reveals Sofalcone inhibits the inflammatory response of Caco-2 cells by covalently targeting HMGB1

Tong Yang, Dandan Liu, Yulei Li, Ying Zhang, Yinhua Zhu, Junzhe Zhang, Chen Wang, Shujie Zhang, Yin Kwan Wong, Piao Luo, Qiuyan Guo, Fei Xia, Tianyu Zhong,\* Huan Tang\* and Jigang Wang\*

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### Engineering the NASICON electrolyte/Na anode interface with amorphous bismuth oxide for sodium batteries

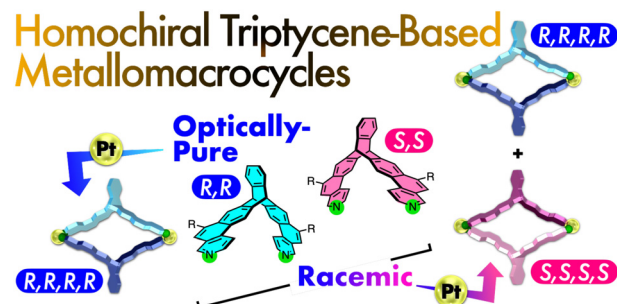
Jinze Wu, Hui Liu, Yongdan Li and Cuijuan Zhang\*



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### Optically-pure triptycene-based metallomacrocycles and homochiral self-sorting assisted by ladder formation

Kosuke Oki, Wei Zheng, Eiji Yashima and Tomoyuki Ikai\*



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### Copper-mediated bromine atom transfer radical cyclisation of unactivated alkyl bromides

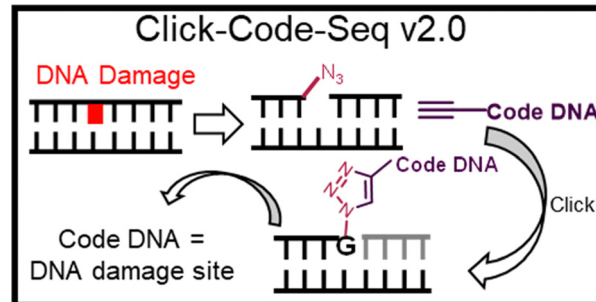
Xue Yang, Jianlin Zhou, Shuoren Wu and Wei Yu\*



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### Sequencing for oxidative DNA damage at single-nucleotide resolution with click-code-seq v2.0

Songjun Xiao, Aaron M. Fleming and Cynthia J. Burrows\*



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### Tuneable tetrel bonds between tin and heavy pnictogens

Sachin Liyanage, Jeffrey S. Ovens, Steve Scheiner\* and David L. Bryce\*

