

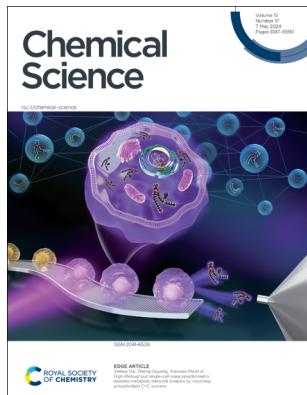
# Chemical Science

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### Cover

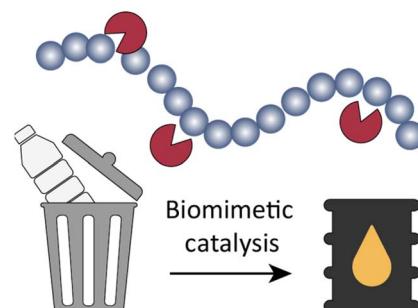
See Xinhua Dai, Zheng Ouyang, Xiaoxiao Ma et al., pp. 6314–6320. Image reproduced by permission of Simin Cheng from *Chem. Sci.*, 2024, 15, 6314.

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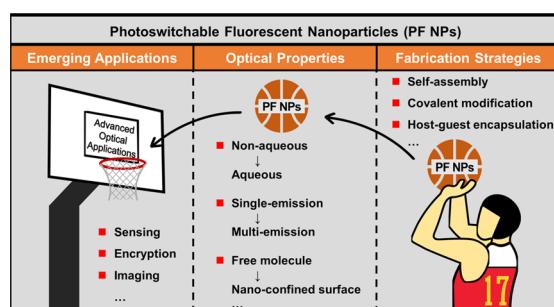
Yanfen Wu, Qikun Hu, Yizhen Che and Zhiqiang Niu\*



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### Photoswitching the fluorescence of nanoparticles for advanced optical applications

Wencheng Zhong and Li Shang\*



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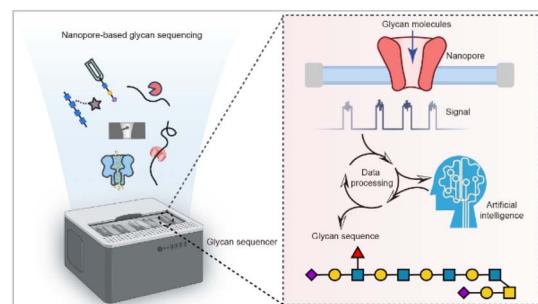
Fundamental questions  
Elemental answers



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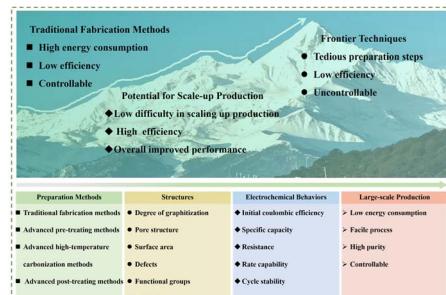
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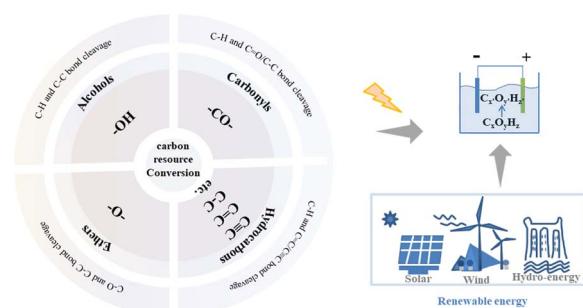
**Nanopore-based glycan sequencing: state of the art and future prospects**Guangda Yao, Wenjun Ke, Bingqing Xia\*  
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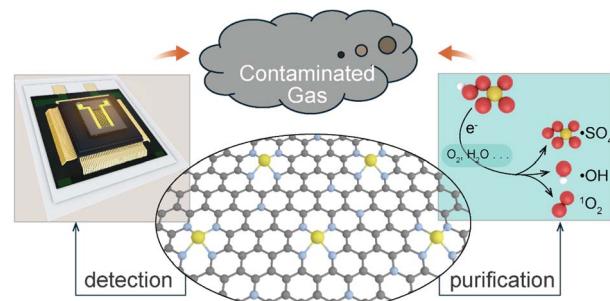
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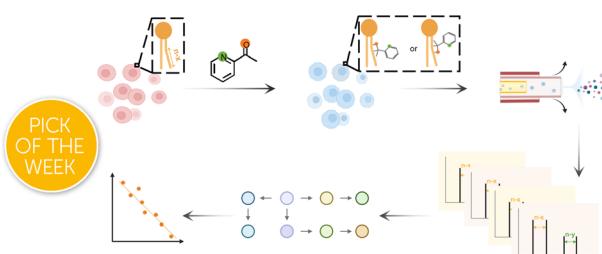
**Emerging single-atom catalysts in the detection and purification of contaminated gases**

Lingyue Liu, Ka-Fu Yung,\* Hongbin Yang\* and Bin Liu\*



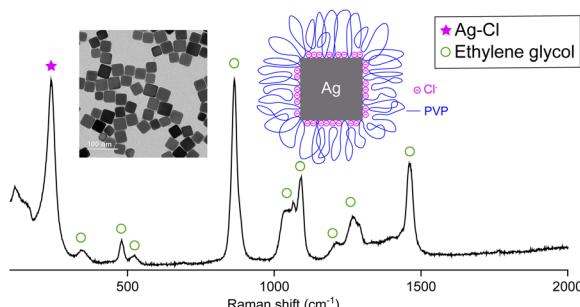
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**High-throughput single-cell mass spectrometry enables metabolic network analysis by resolving phospholipid C=C isomers**

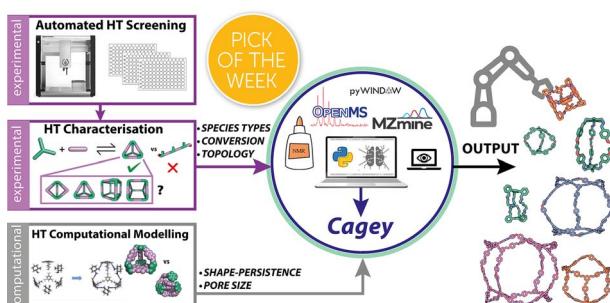
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**Seeing is believing: what is on the surface of silver nanocrystals suspended in their original reaction solution**

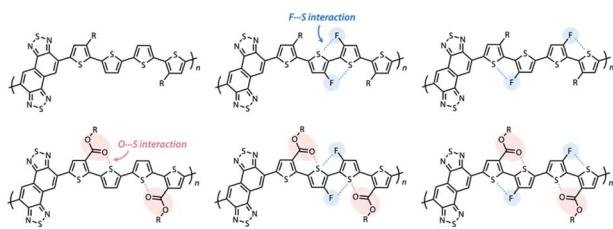
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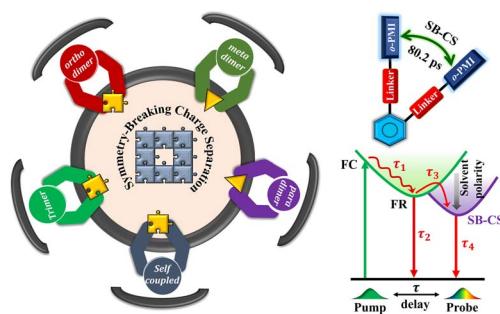


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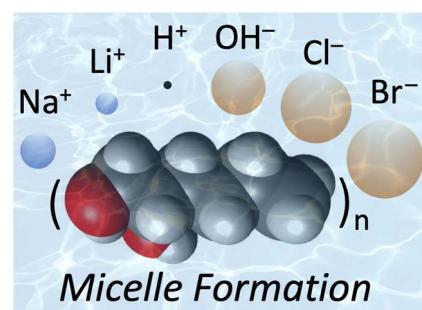
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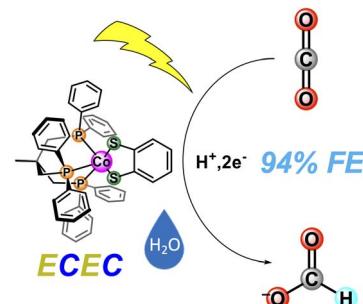
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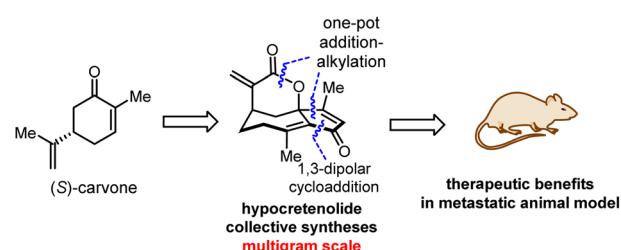
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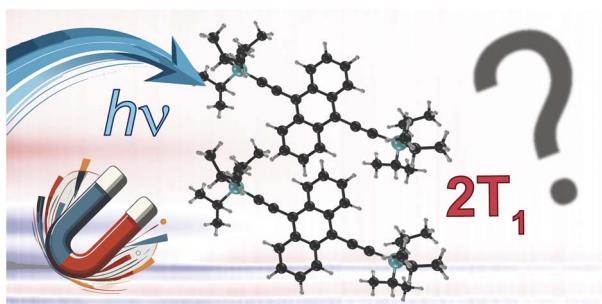
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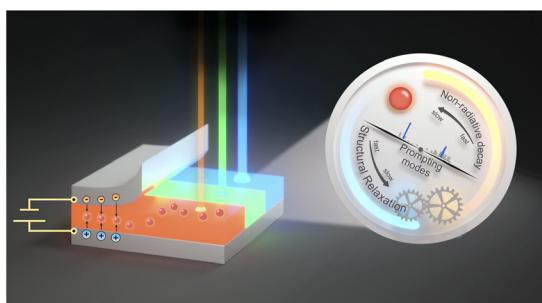
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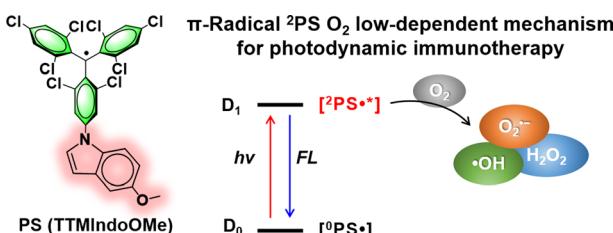
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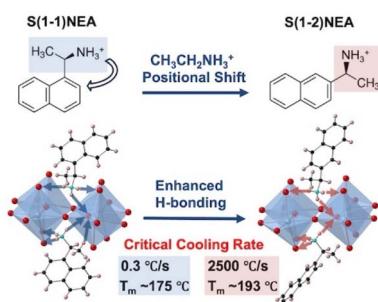
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**Controlling glass forming kinetics in 2D perovskites using organic cation isomers**

Akash Singh, Yi Xie, Curtis Adams, III, Benjamin G. Bobay and David B. Mitzi\*

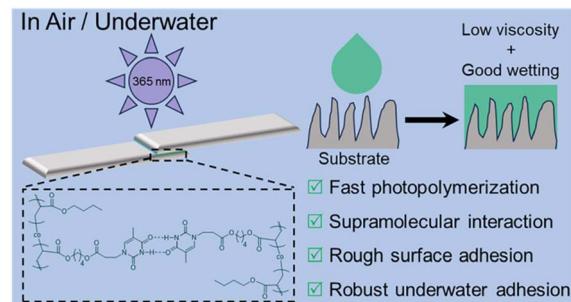


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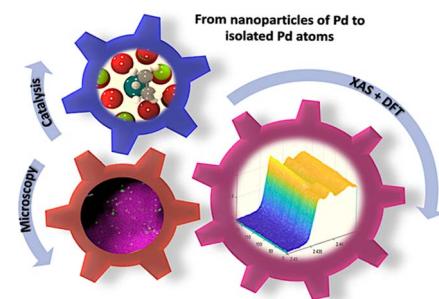
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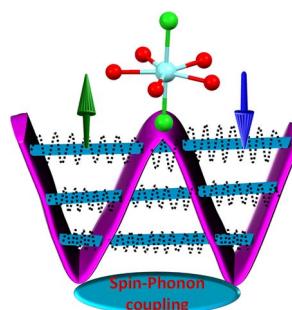
Yizhen Chen, Rachita Rana, Yizhi Zhang, Adam S. Hoffman, Zhennan Huang, Bo Yang, Fernando D. Vila, Jorge E. Perez-Aguilar, Jiyun Hong, Xu Li, Jie Zeng, Miaofang Chi, Coleman X. Kronawitter, Haiyan Wang, Simon R. Bare,\* Ambarish R. Kulkarni\* and Bruce C. Gates\*



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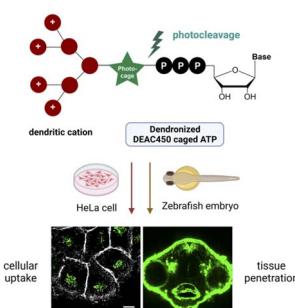
Sourav Dey, Tanu Sharma and Gopalan Rajaraman\*



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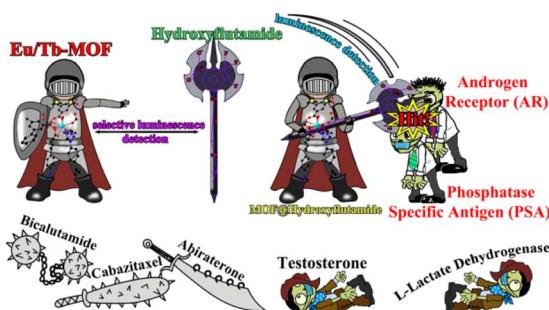
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Jiahui Ma, Johanna Wehrle, Dennis Frank, Lina Lorenzen, Christoph Popp, Wolfgang Driever, Robert Grosse and Henning J. Jessen\*



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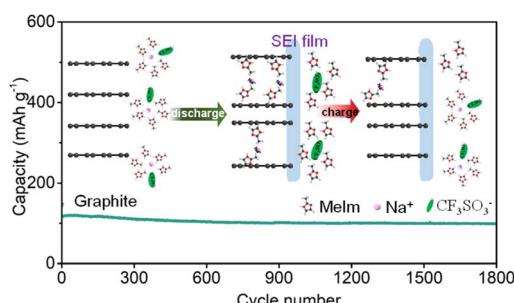
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Wei Zhao, Chunting Wang, Zhenjie Cheng, Cheng Zheng, Qian Yao, Jun Pan,\* Xiaojian Ma\* and Jian Yang

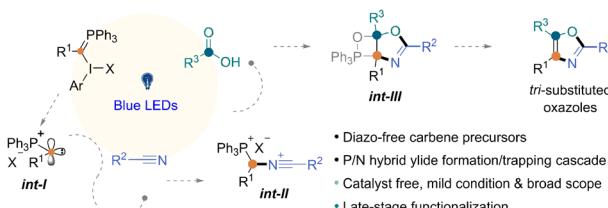
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Xingchen Ye, Huaijin Pan, Yong Huang,\* Jian Chen\* and Zhaofeng Wang\*

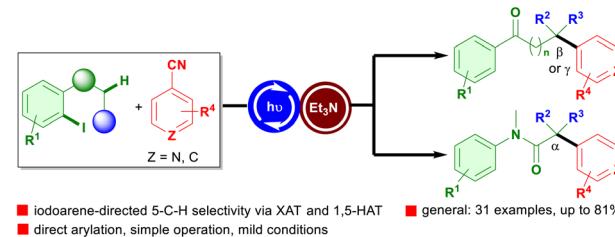


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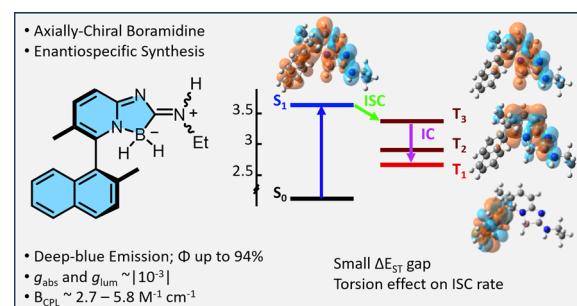
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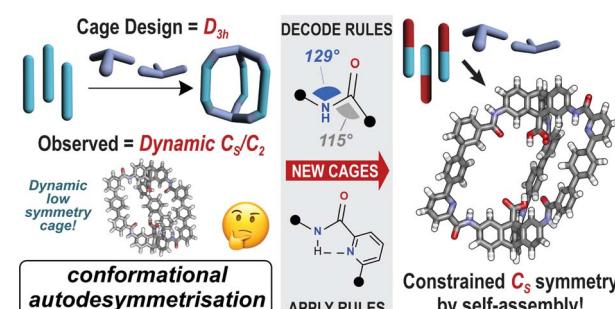
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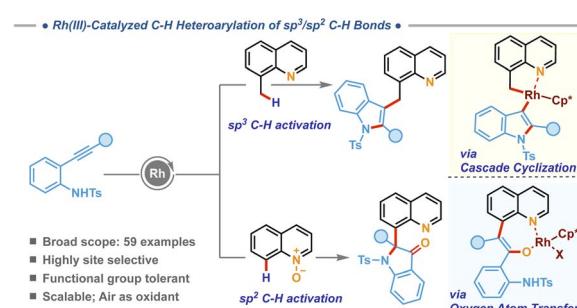
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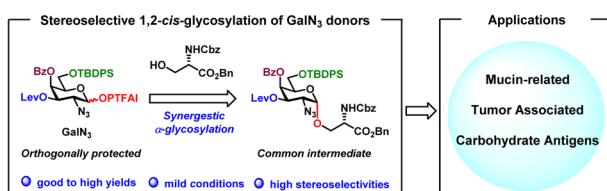
**Rh(III)-catalyzed sp<sup>3</sup>/sp<sup>2</sup>–C–H heteroarylations via cascade C–H activation and cyclization**

Atul K. Chaturvedi, Rahul K. Shukla and Chandra M. R. Volla\*



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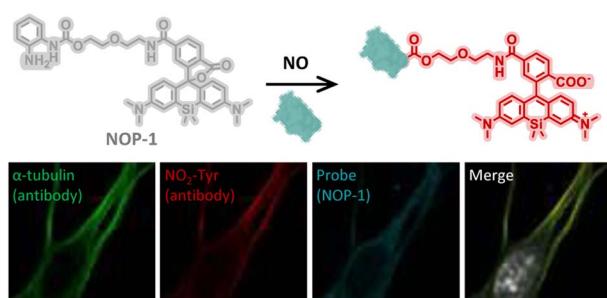
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Kunxiu Shou, Yunqin Zhang, Yujie Ji, Bin Liu, Qingli Zhou, Qiang Tan, Fuying Li, Xiufang Wang, Gang Lu\* and Guozhi Xiao\*

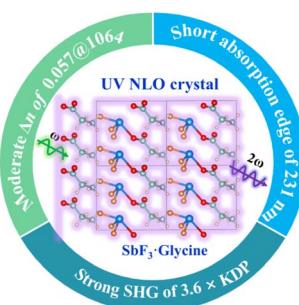
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### Deconvoluting nitric oxide–protein interactions with spatially resolved multiplex imaging

Yi Li, Kaijun Pan, Yanan Gao, Jia Li, Yi Zang\* and Xin Li\*

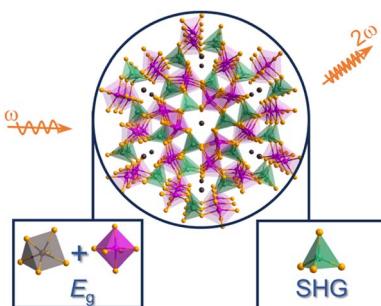
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Zhiyong Bai, Jihyun Lee, Chun-Li Hu,\* Guohong Zou\* and Kang Min Ok\*

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Linan Wang, Dongdong Chu, Zhihua Yang, Junjie Li\* and Shilie Pan\*



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