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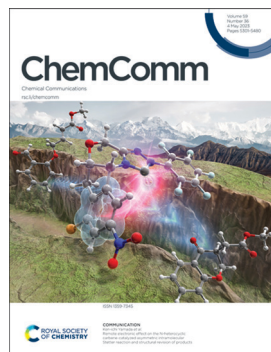
Chemical Communications

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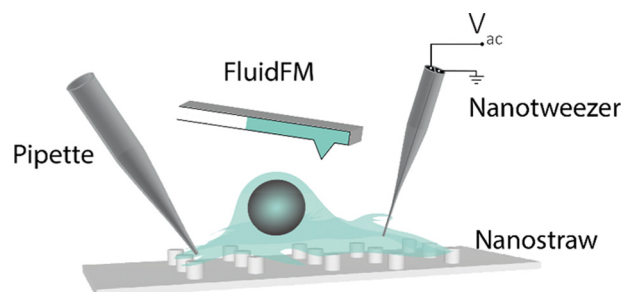
See Zhengxu Cai, Zhouyu Wang, Xiaoqi Yu *et al.*, pp. 5329–5342. Image reproduced by permission of Zhengxu Cai from *Chem. Commun.*, 2023, 59, 5329.

HIGHLIGHT

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Recent advances in single-cell subcellular sampling

Annie Sahota, Anthony Monteza Cabrejos, Zoe Kwan, Binoy Paulose Nadappuram,* Aleksandar P. Ivanov* and Joshua B. Edel*

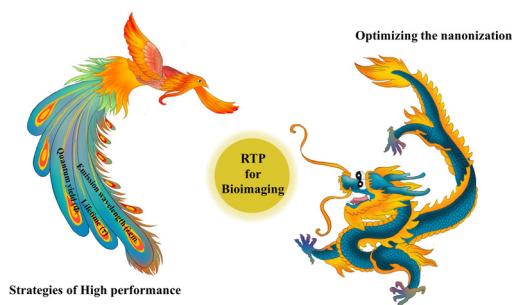


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Organic room-temperature phosphorescence materials for bioimaging

Yahui Zhang, Hairong Li, Mengdie Yang, Wenbo Dai, Jianbing Shi, Bin Tong, Zhengxu Cai,* Zhouyu Wang,* Yuping Dong and Xiaoqi Yu*



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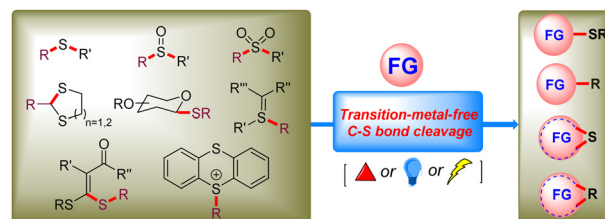


FEATURE ARTICLES

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Transition-metal-free C–S bond cleavage and transformation of organosulfur compounds

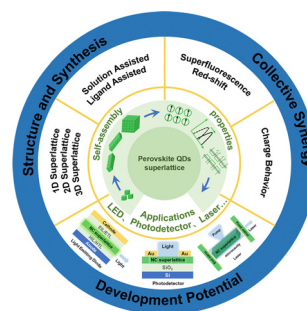
Ke Yang,* Qin Li, Zhengyi Li and Xiaoqiang Sun



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Perovskite nanocrystal superlattices: self-assembly, collective behavior, and applications

Danni Yan, Qingsong Shan,* Yuhui Dong,* Lu Han, Xinli Wu, Yi Peng and Haibo Zeng*

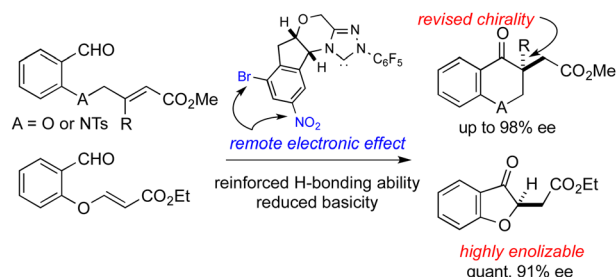


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Remote electronic effect on the N-heterocyclic carbene-catalyzed asymmetric intramolecular Stetter reaction and structural revision of products

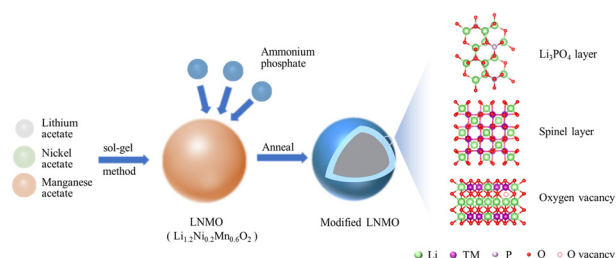
Tsubasa Inokuma, Kohei Iritani, Yuki Takahara, Chunzhao Sun, Yousuke Yamaoka, Satoru Kuwano and Ken-ichi Yamada*



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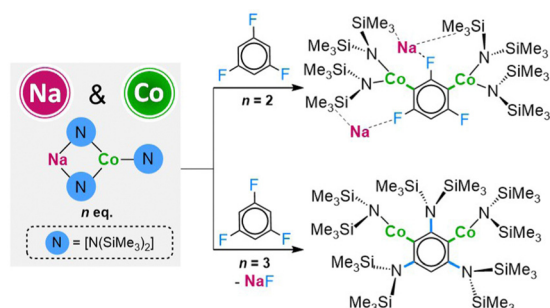
Access to high-performance Li-rich layered oxide cathodes via ammonium phosphate surface treatment

Xiaobao Huang, Ding Zhang,* Shoudong Xu, Liang Chen and Xiaochuan Duan*



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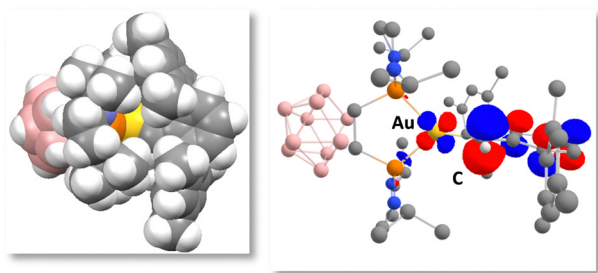
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Alessandra Logallo and Eva Hevia*

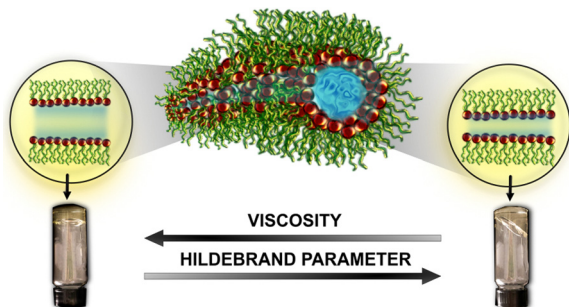
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Combining ligand-enhanced backdonation and steric shielding to stabilize a mono-substituted $\text{Au}(\text{I})$ carbene

David Vesseur, Karinne Miqueu and Didier Bourissou*

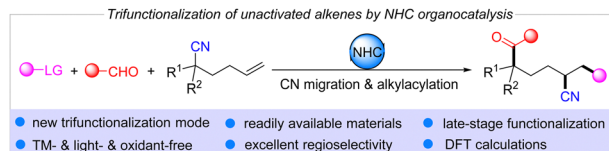
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Probing water mobility in confining channels of reverse wormlike micelles

Hilda Camila Nascimento Nogueira, Daniela Almeida Vieira Fogaça da Rocha and Edvaldo Sabadini*

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Organocatalytic radical relay trifunctionalization of unactivated alkenes by a combination of cyano migration and alkylation

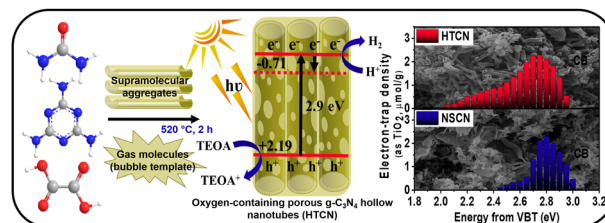
Jingyi Wang, Yuchan Wang, Jibin Li, Zexuan Wei, Jie Feng* and Ding Du*



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All-alike hollow nanotubes of g-C₃N₄ converting photons into fuel by splitting water

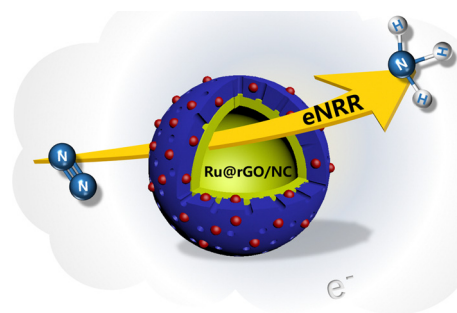
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Facile preparation of single-atom Ru catalysts via a two-dimensional interface directed synthesis technique for the NRR

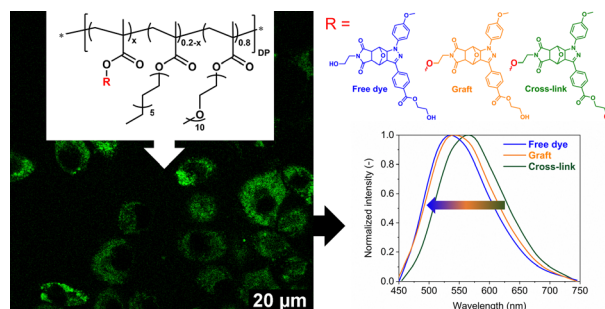
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Simultaneously controlling conformational and operational stability of single-chain polymeric nanoparticles in complex media

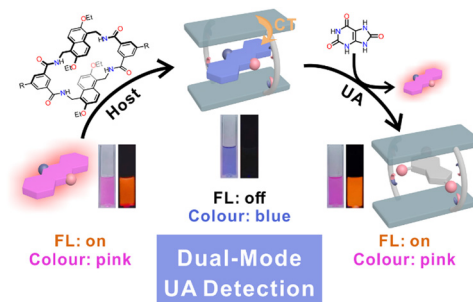
Stefan Wijker, Rico Monnink, Luc Rijnders, Linlin Deng and Anja R.A. Palmans*



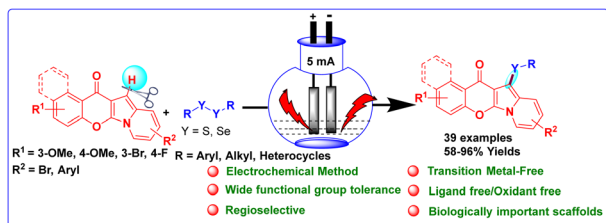
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Huan Yao, Shi-Yao Li, Hong Zhang, Xin-Yu Pang, Jia-Le Lu, Cong Chen, Wei Jiang, Liu-Pan Yang* and Li-Li Wang*



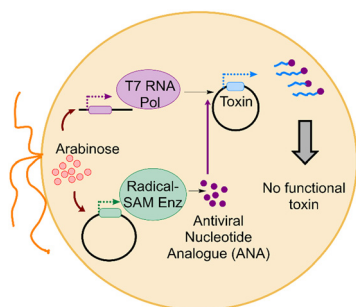
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Electrochemical site-selective direct C–H sulfenylation and selenylation of a chromone-fused-indolizine (CFI) skeleton

Pooja Kumari Jat, Lalit Yadav, Amreen Chouhan, Kusum Ucheniya and Satpal Singh Badsara*

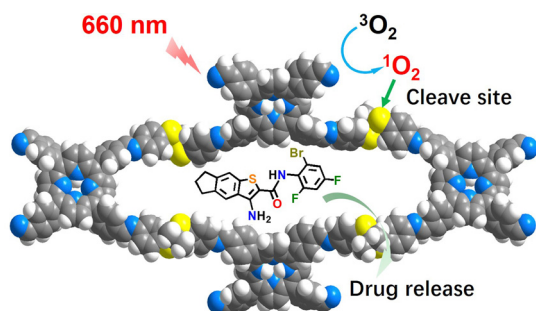
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VITAS, a sensitive *in vivo* selection assay to discover enzymes producing antiviral natural products

Aws Fahd Alharbi, Hayun Kim, Dhirish Chumroo, Yuxuan Ji, Mohammed Hakil and Kourosh H. Ebrahimi*

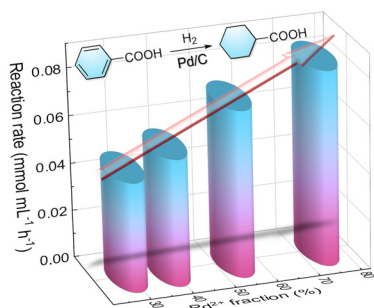
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A reactive oxygen species-responsive covalent organic framework for tumor combination therapy

Wen-Yan Li, Jing-Lan Kan, Jing-Jing Wan, Yan-An Li, Tian Song, Bo Wang, Qun Guan, Le-Le Zhou and Yu-Bin Dong*

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Electronic property-dependent activity and durability in Pd/C-catalysed hydrogenation of benzoic acid

Ke Xu, Yu Sun, You Wang, Bing Du, Xiaolong Li and Sai Zhang*

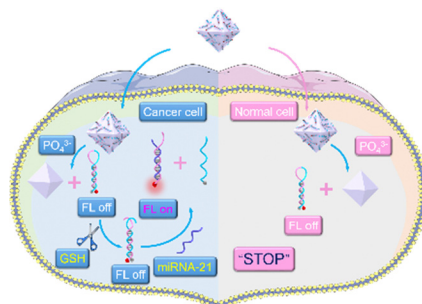


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Endogenous glutathione-activated DNA nanoprobes for spatially controllable imaging of microRNA in living cells

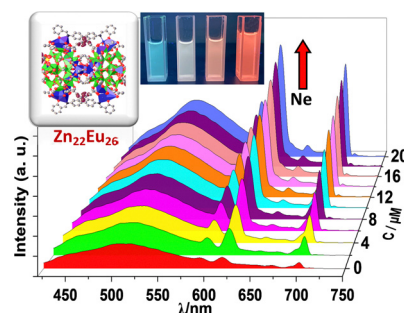
Yuyan Li, Fanghua Zhang, Wendong Liu, Mingzheng Shao, Zhe Hao, Hongyan Zhang, Ruizhong Zhang, Xiyun Li and Libing Zhang*



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Rapid and quantitative detection of the inflammatory marker neopterin based on a visible luminescent Zn(II)–Eu(III) nanocluster

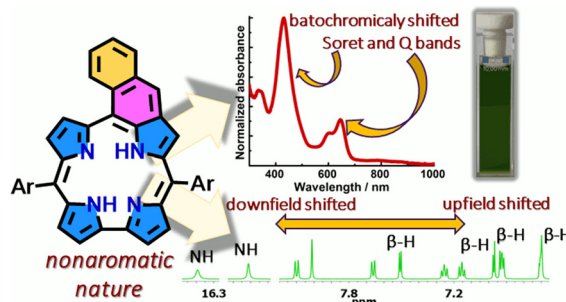
Jinni Zhao, Xilong Leng, Jiazhao Lin, Xiaoping Yang,* Xiaoli Lv, Xianfeng Huang, Zhi Yang* and Desmond Schipper



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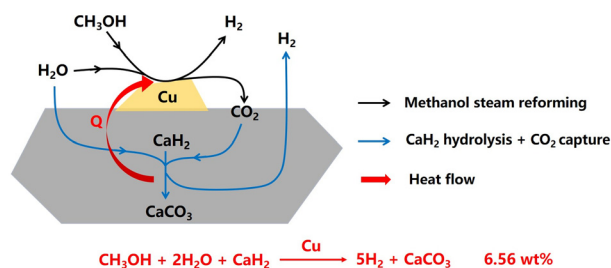
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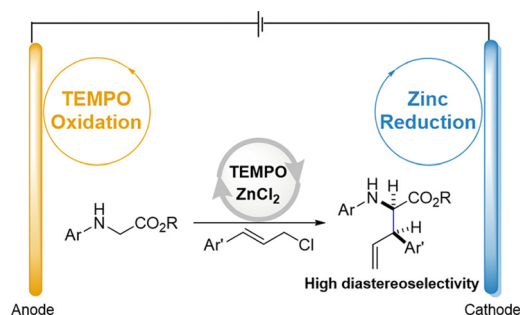
Hydrogen generation by coupling methanol steam reforming with metal hydride hydrolysis

Kuerbangnisha Kadeer, Xingguo Li and Jie Zheng*



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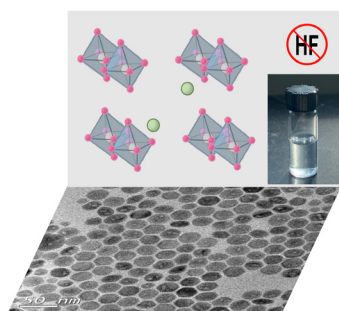
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Convergent paired electrolysis for zinc-mediated diastereoselective cinnamylation of α -amino esters

Hahyoun Park, Minjun Kim, Jungtaek Kang, Hyunjoon Song* and Hyunwoo Kim*

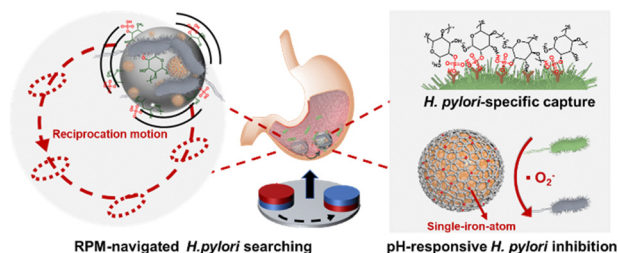
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HF-Free synthesis of colloidal Cs₂ZrF₆ and (NH₄)₂ZrF₆ nanocrystals

Eden Tzanetopoulos, Julie Schwartz and Daniel R. Gamelin*

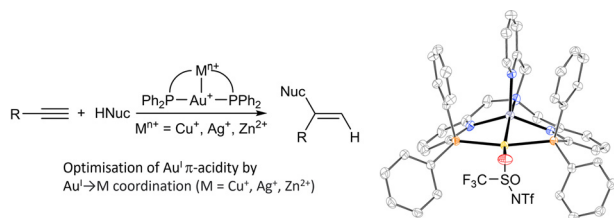
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Xinqi Cai, Zhiyang Li, Wen-jing Zhou, Hui Deng, Xiaoxu Cao, Jieqiong Xu, Zhiwei Yin, Shen Wang, Xin Xia, Chao Ma, Long Chen, Ding Ding,* Weihong Tan and Zhuo Chen*

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Au → M bonds promote catalytic alkyne hydrofunctionalisation

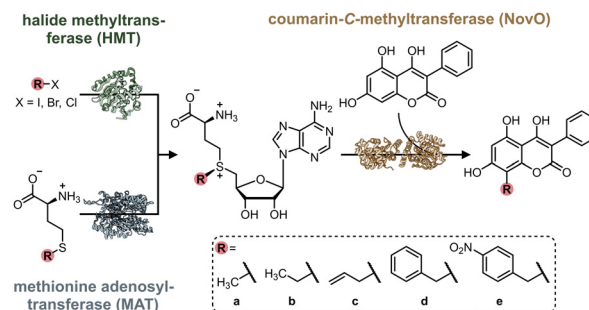
M. Alexander Eltester, Hans Gildenast, Kristina Rabatinová, Christopher Pütz, Christopher Cremer, Patrick Lanzerath, Julian P. Schroers and Michael E. Tauchert*



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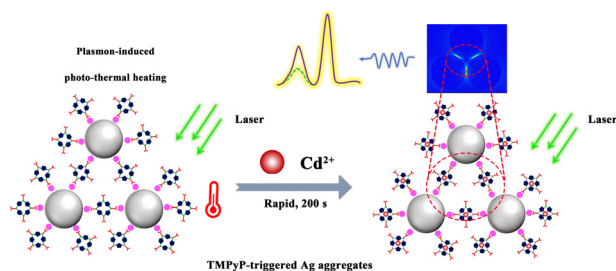
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Arne Hoffmann, Kai H. Schülke, Stephan C. Hammer,*
Andrea Rentmeister* and Nicolas V. Cornelissen*

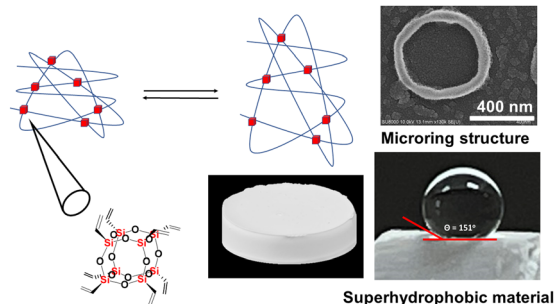
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A porphyrin-based ratiometric SERS sensor for high-throughput and ultrasensitive cadmium ion detection

Rui Wang, Shuo Wu, Yumiao Dong, Yunfei Xie* and
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Ultrafast synthesis of silicone elastomers using silsesquioxane cages as crosslinkers

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Teeraya Bureerug, Mongkol Sukwattanasinitt and
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Tatiana Agback, Peter Agback, Adnane Achour,
Xiaobo Qu* and Vladislav Orekhov*