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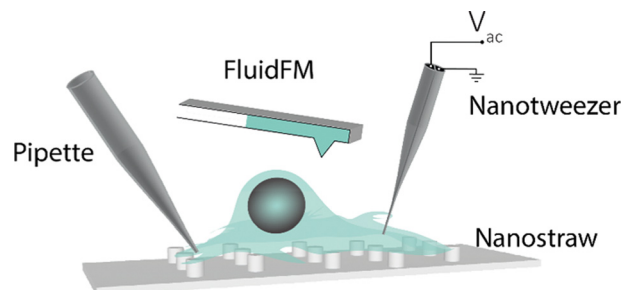
See Zhengxu Cai, Zhouyu Wang, Xiaoqi Yu *et al.*, pp. 5329–5342. Image reproduced by permission of Zhengxu Cai from *Chem. Commun.*, 2023, 59, 5329.

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*

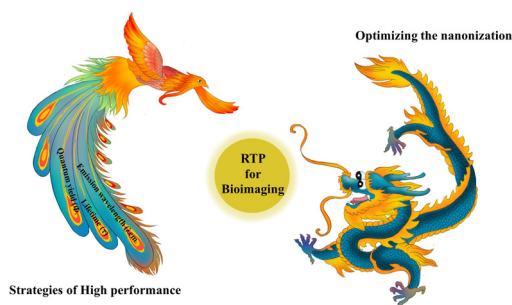


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Organic room-temperature phosphorescence materials for bioimaging

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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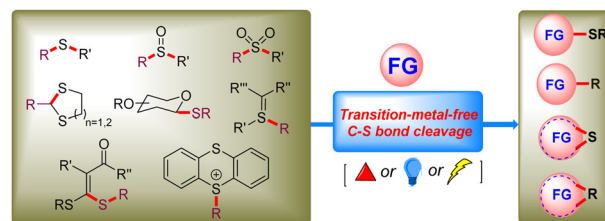


FEATURE ARTICLES

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

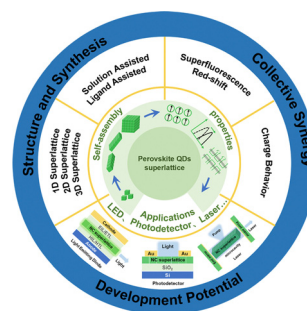
Ke Yang,* Qin Li, Zhengyi Li and Xiaoqiang Sun



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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*

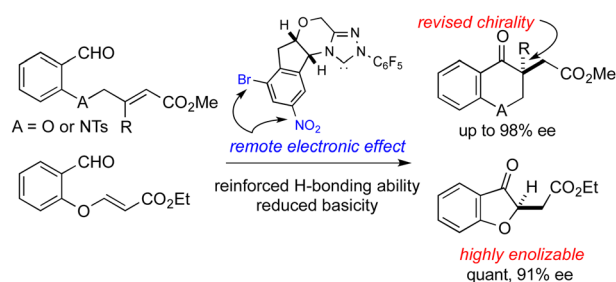


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Remote electronic effect on the N-heterocyclic carbene-catalyzed asymmetric intramolecular Stetter reaction and structural revision of products

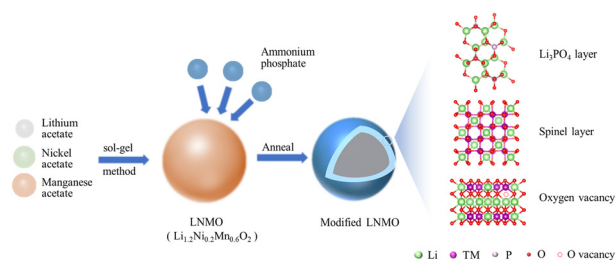
Tsubasa Inokuma, Kohei Iritani, Yuki Takahara, Chunzhao Sun, Yousuke Yamaoka, Satoru Kuwano and Ken-ichi Yamada*



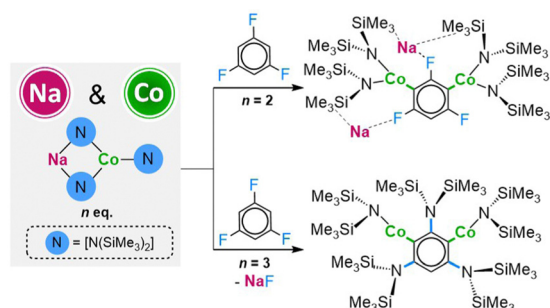
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Access to high-performance Li-rich layered oxide cathodes via ammonium phosphate surface treatment

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



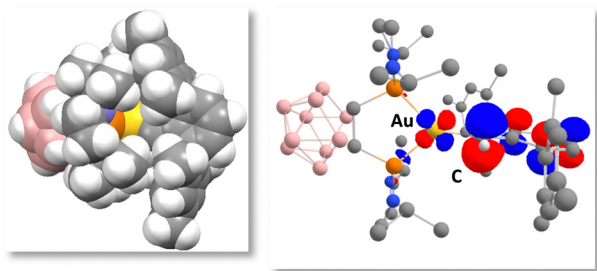
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Applying Na/Co(II) bimetallic partnerships to promote multiple Co–H exchanges in polyfluoroarenes

Alessandra Logallo and Eva Hevia*

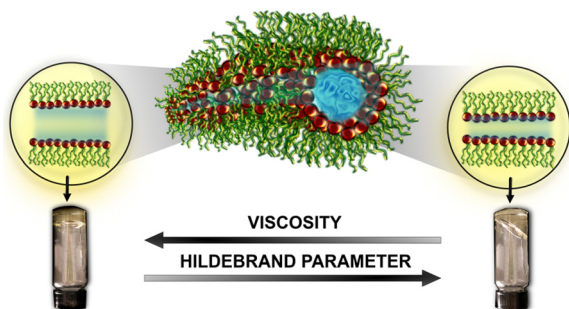
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Combining ligand-enhanced backdonation and steric shielding to stabilize a mono-substituted Au(I) carbene

David Vesseur, Karinne Miqueu and Didier Bourissou*

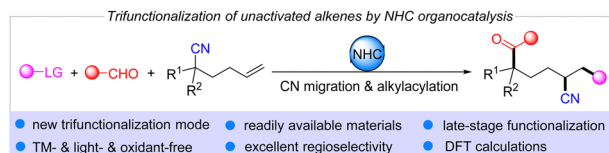
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Hilda Camila Nascimento Nogueira, Daniela Almeida Vieira Fogaça da Rocha and Edvaldo Sabadini*

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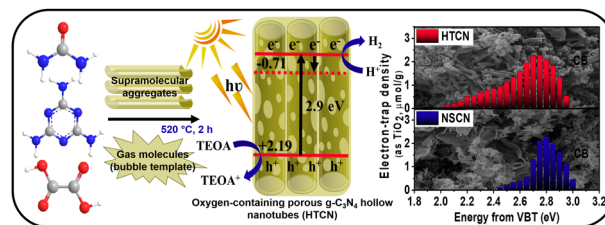
Jingyi Wang, Yuchan Wang, Jibin Li, Zexuan Wei, Jie Feng* and Ding Du*



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

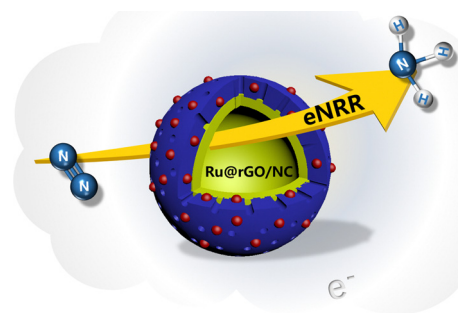
Mani Preeyanghaa, Chitiphon Chuaicham, Sulakshana Shenoy, Bernardshaw Neppolian, Keiko Sasaki* and Karthikeyan Sekar*



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

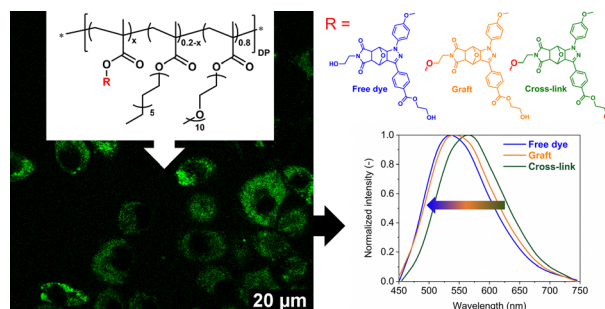
Yao Chen, Rui Xu,* Yuchao Li,* Lu Cai, Yubo Yang, Yanxia Zheng, Cuncun Zuo, Haofei Huang, Zijian Wen and Qian Wang



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

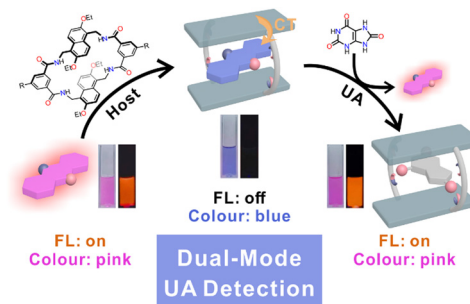
Stefan Wijker, Rico Monnik, Luc Rijnders, Linlin Deng and Anja R.A. Palmans*



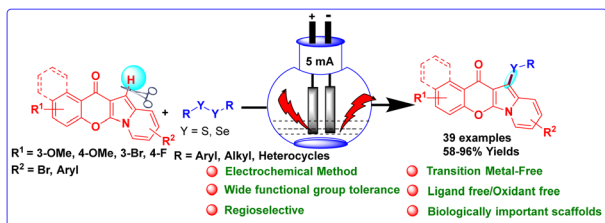
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Tetralactam macrocycle based indicator displacement assay for colorimetric and fluorometric dual-mode detection of urinary uric acid

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



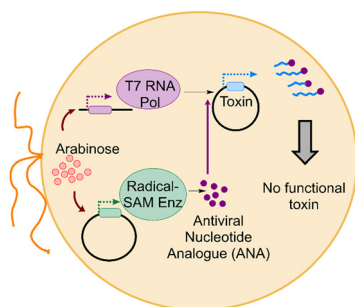
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Electrochemical site-selective direct C–H sulfenylation and selenylation of a chromone-fused-indolizine (CFI) skeleton

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

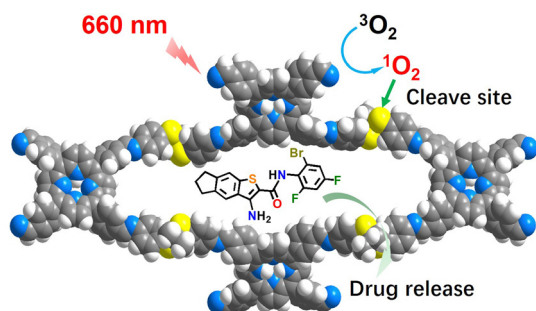
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VITAS, a sensitive *in vivo* selection assay to discover enzymes producing antiviral natural products

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

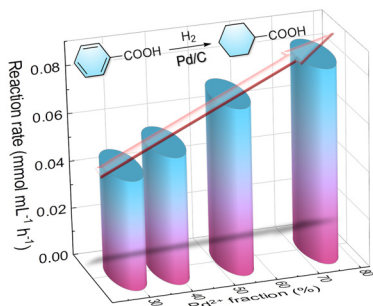
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A reactive oxygen species-responsive covalent organic framework for tumor combination therapy

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

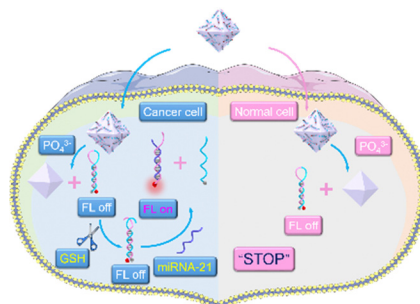
Ke Xu, Yu Sun, You Wang, Bing Du, Xiaolong Li and Sai Zhang*



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

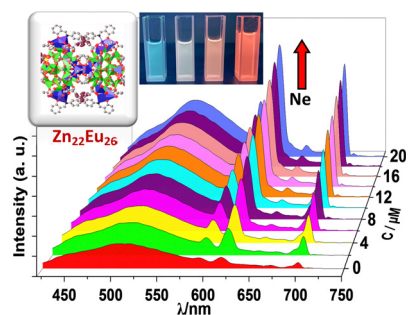
Yuyan Li, Fanghua Zhang, Wendong Liu, Mingzheng Shao, Zhe Hao, Hongyan Zhang, Ruizhong Zhang, Xiyun Li and Libing Zhang*



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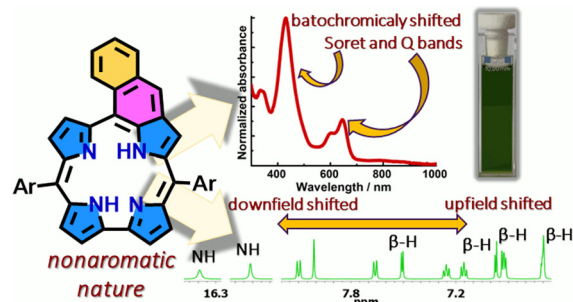
Jinni Zhao, Xilong Leng, Jiazhao Lin, Xiaoping Yang,* Xiaoli Lv, Xianfeng Huang, Zhi Yang* and Desmond Schipper



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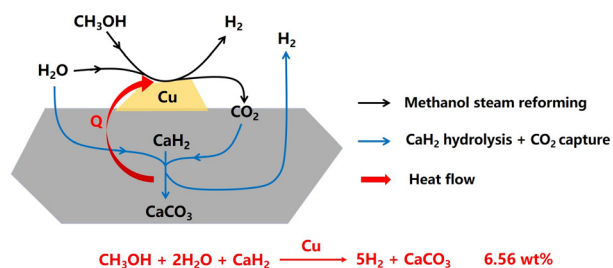
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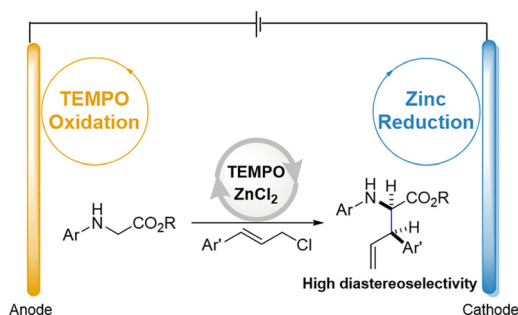
Hydrogen generation by coupling methanol steam reforming with metal hydride hydrolysis

Kuerbangnisha Kadeer, Xingguo Li and Jie Zheng*



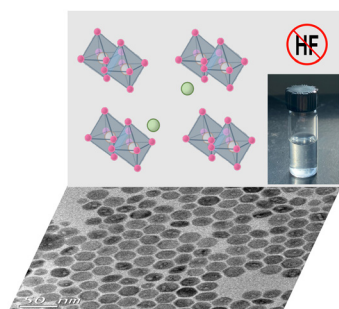
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**Convergent paired electrolysis for zinc-mediated diastereoselective cinnamylation of α -amino esters**

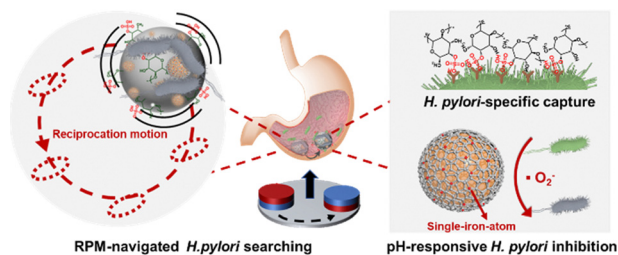
Hahyoun Park, Minjun Kim, Jungtaek Kang, Hyunjoon Song* and Hyunwoo Kim*

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**HF-Free synthesis of colloidal Cs_2ZrF_6 and $(\text{NH}_4)_2\text{ZrF}_6$ nanocrystals**

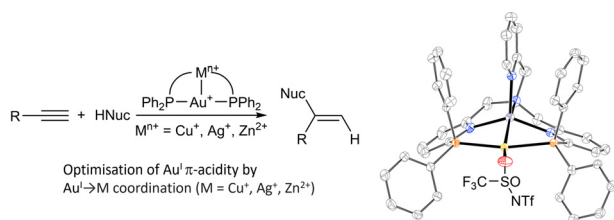
Eden Tzanetopoulos, Julie Schwartz and Daniel R. Gamelin*

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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 \rightarrow M bonds promote catalytic alkyne hydrofunctionalisation**

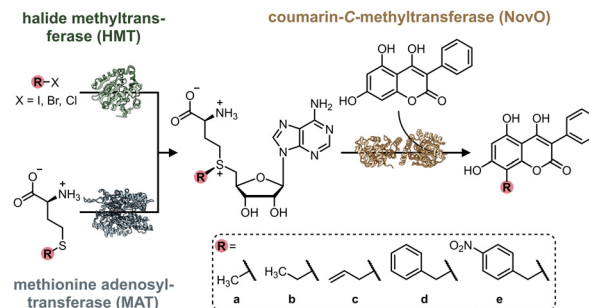
M. Alexander Eltester, Hans Gildenast, Kristina Rabatinová, Christopher Pütz, Christopher Cremer, Patrick Lanzerath, Julian P. Schroers and Michael E. Tauchert*



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Comparative *S*-adenosyl-L-methionine analogue generation for selective biocatalytic Friedel-Crafts alkylation

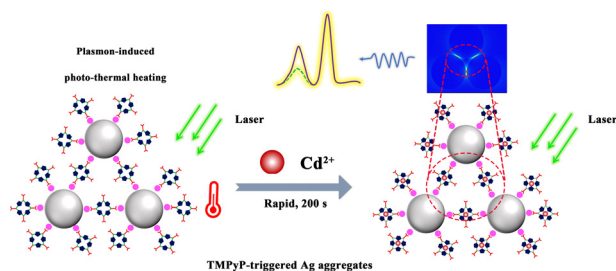
Arne Hoffmann, Kai H. Schülke, Stephan C. Hammer,*
Andrea Rentmeister* and Nicolas V. Cornelissen*



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

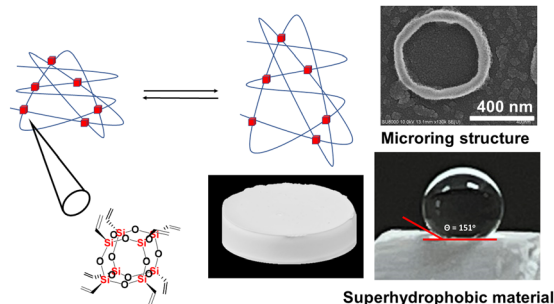
Rui Wang, Shuo Wu, Yumiao Dong, Yunfei Xie* and
Wei Ji*



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Ultrafast synthesis of silicone elastomers using silsesquioxane cages as crosslinkers

Chidchanok Wannasiri, Supphachok Chamnungkalakul,
Teeraya Bureerug, Mongkol Sukwattanasinitt and
Vuthichai Ervithayasuporn*



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Tianyu Qiu, Amir Jahangiri, Xiao Han, Dmitry Lesovoy,
Tatiana Agback, Peter Agback, Adnane Achour,
Xiaobo Qu* and Vladislav Orekhov*

