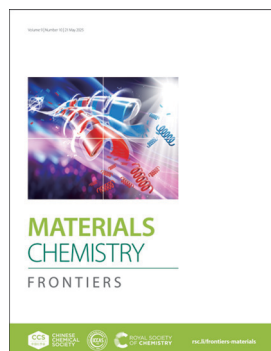


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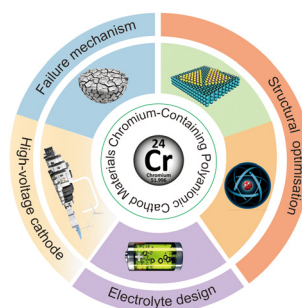
See Yann Ferrand, Reiko Oda *et al.*, pp. 1501-1510. Image reproduced by permission of Reiko Oda from *Mater. Chem. Front.*, 2025, 9, 1501.

REVIEW

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Chromium-containing polyanionic cathode materials for sodium-ion batteries: progress, challenges and opportunities

Jin-Ling Liu, Yan Zhuang, Yi-Fei Liu, Xiao-Tong Wang, Zhen-Yi Gu,* Denglong Chen* and Xing-Long Wu*

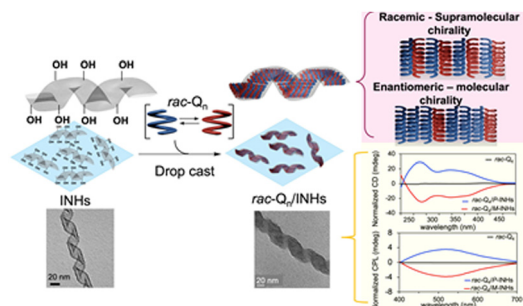


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Chirality expression from hierarchical foldamer-mesoscopic helical silica frameworks

Piyanan Pranee, Robin Hess, Anthony Boudier, Zakaria Anfar, Matheus De Souza Lima Mendes, Eric Merlet, Wijak Yospanya, Emilie Pouget, Sylvain Nlate, Céline Olivier, Thierry Buffeteau, Yann Ferrand* and Reiko Oda*



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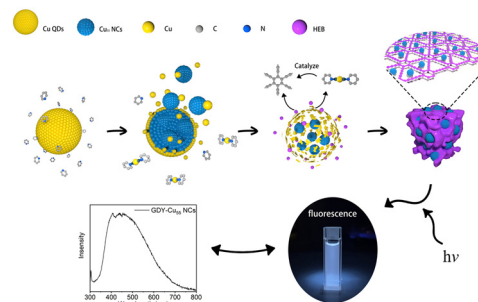
Fundamental questions
Elemental answers

RESEARCH ARTICLES

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Graphdiyne-confined synthesis of highly stable Cu₅₅ nano-clusters with white fluorescence

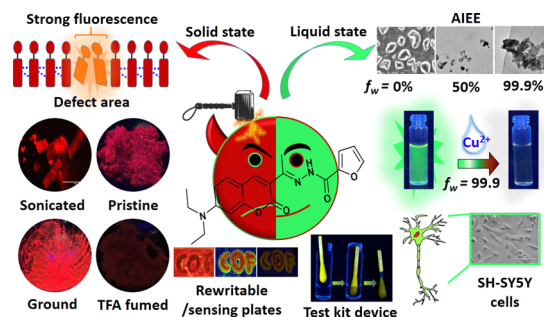
Hongye Liu, Zecheng Xiong, Hao Sun, Wei Su, Yang Huang, Weiyue Jin and Huibiao Liu*



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Ultrasound defect sensitive mechanochromic material with blue-shifted emission for the detection of Cu²⁺ in Alzheimer's disease cells

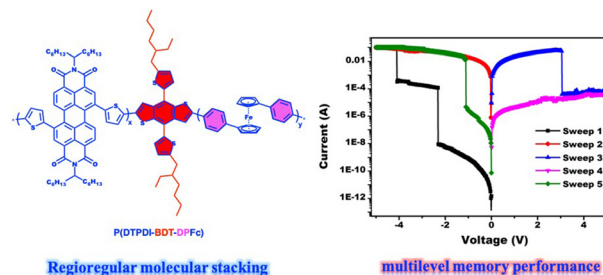
Aayoosh Singh, Pranjalee Yadav, Amit K. Singh, Rupen Tamang, Biplob Koch and Vinod P. Singh*



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Rational introduction of functional spacers to realize a novel organometallic polymer with multilevel memory behaviors

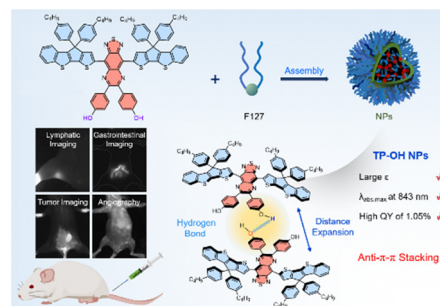
Feng Zhou, Han-rui Liu, Wan-cheng Luo, Hui-long Dong, Jian-rong Zeng, Yang Li,* Ya Yang,* Gu-ping Zhang* and Qi-jian Zhang*



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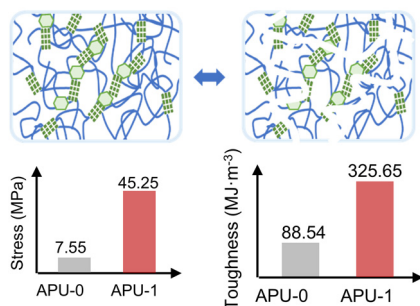
Boosting fluorescence efficiency of NIR-II dyes for multifunctional fluorescence imaging via hydrogen bonding

Liangyu Zheng, Weidan Na,* Fan Gao and Changjin Ou*



RESEARCH ARTICLES

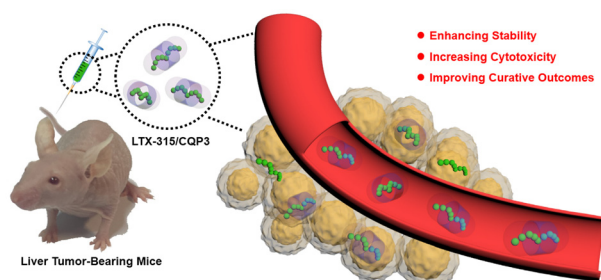
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Exceptional mechanical robust and self-healable rosin-based elastomer through high steric hindrance rigid structures

Yuehan Qian, Shanling Lu, Yunmeng Jiang, Xu Xu,*
Fei Fu,* Xujuan Huang,* Hongxiao Wang and He Liu

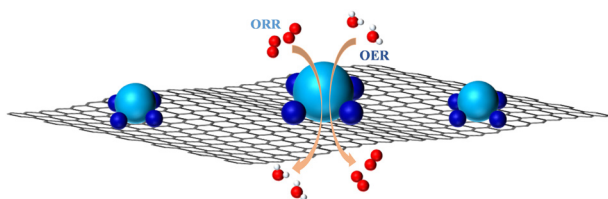
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Complexation of oncolytic peptide with carboxylatoquaterphen[3]arene for ameliorating its antitumor efficacy

He Zhang, Yi Lou, Shenghui Li, Zihan Fang, Junyi Chen*
and Chunju Li

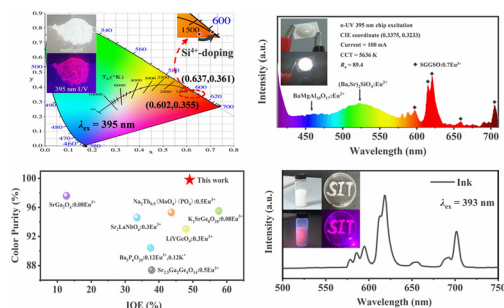
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Single-atom Ce catalysts for rechargeable Zn-air batteries

Jingru Sun, Zhenlu Wang* and Jingqi Guan*

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Enhanced red-emitting phosphors through Si⁴⁺/Eu³⁺ co-doping: advancing WLED performance and anti-counterfeiting applications

Lanxuan Yang, Lili Liu, Xu Ding, Ruili Xu, Tian Tian,
Zhifu Liu, Lianjiang Tan* and Yaoqing Chu*



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Interfacial engineering of a $\text{Ni}_3\text{ZnC}_{0.7}/\text{VN}$ heterostructure with optimized dual metal sites for alkaline electrocatalytic hydrogen evolution

Liangliang Feng,* Kaikai Zhao, Lina Dai, Danyang He,* Hongyan Yin, Yonghui Zhang, Jingyi Chen, Liyun Cao and Jianfeng Huang*

