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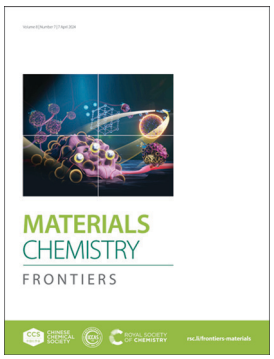
ISSN 2052–1537 CODEN MCFAC5 8(7) 1679–1854 (2024)



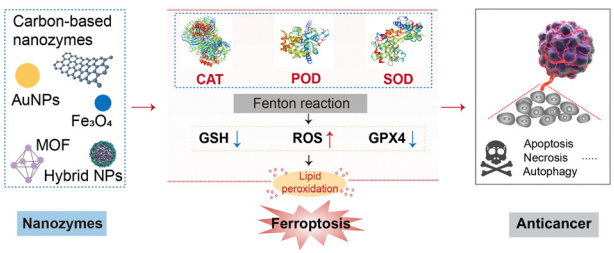
Cover
See Min Sun, Bo Jia, Jianzhong Du *et al.*, pp. 1685–1702. Image reproduced by permission of Jianzhong Du from *Mater. Chem. Front.*, 2024, **8**, 1685.

REVIEWS

1685

Nanozyme-enhanced ferroptosis for cancer treatment

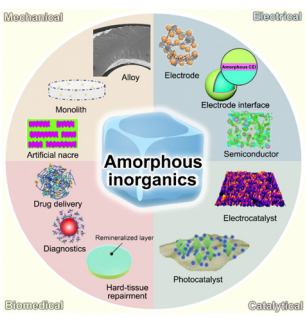
Yue Ming, Mingshu Huang, Yisheng Huang, Danqing Liu, Min Sun,* Bo Jia* and Jianzhong Du*



1703

Applications of amorphous inorganics as novel functional materials

Zhengxi Guo, Zhaoming Liu* and Ruikang Tang*



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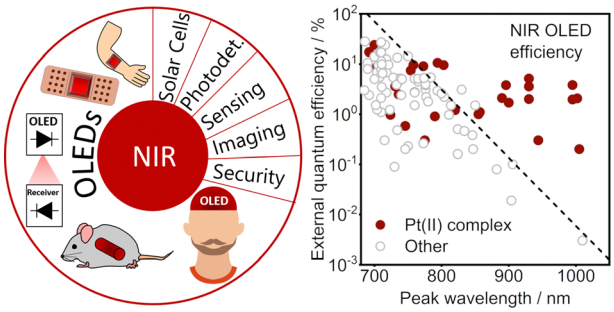
REVIEWS

1731

Recent advances in highly-efficient near infrared OLED emitters

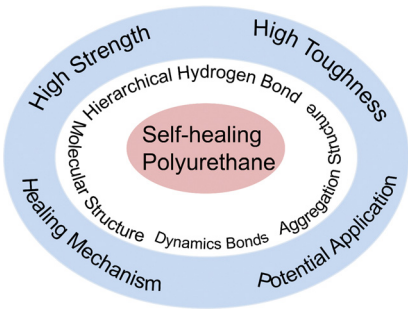
Paloma L. dos Santos,* Patrycja Stachelek,* Youhei Takeda* and Piotr Pander*



1767

Toward mechanically robust self-healing polyurethanes using dynamics chemistry

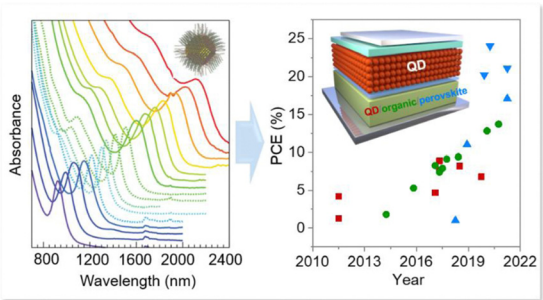
Yan-Long Luo, Wen-Tong Gao, Zhen-Yang Luo and Cheng-Hui Li*



1792

Tandem solar cells based on quantum dots

Juncheng Zhu, Kunyuan Lu, Jing Li, Zeke Liu* and Wanli Ma

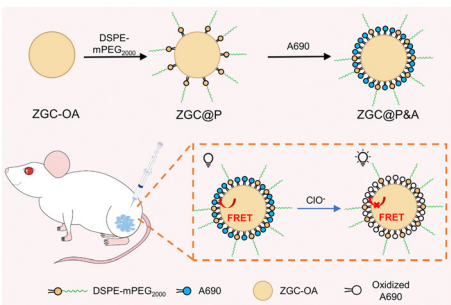


RESEARCH ARTICLES

1808

A hypochlorite-activatable persistent luminescence nanoprobe for assisted tumor resection

Zhouyu Zhang, Zi-Jin Wei, Mengjie Sun, Zichao Yan, Chang Yin, Wei Wang* and Zhi Yuan*



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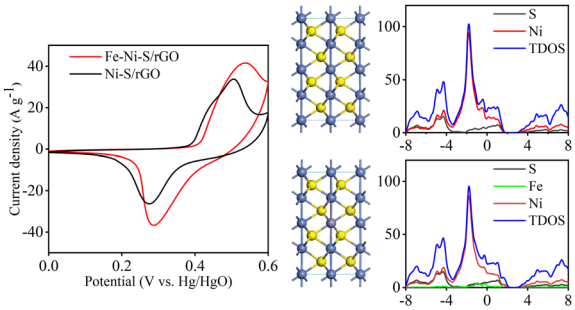
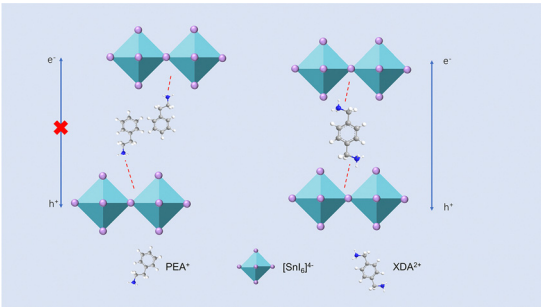
1816



Iron-doped nickel sulfide nanospheres anchored on reduced graphene oxide for high performance supercapacitors

Xiangqun Zeng, Mengyuan Yang, Jie Zhao,* Jiao-Jing Shao* and Zhao Ding

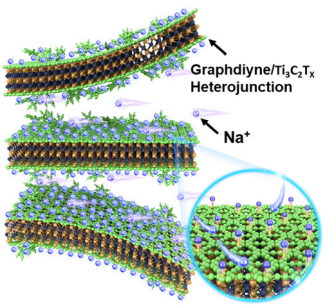
1827



Efficient quasi-2D tin perovskite solar cells based on mixed monoammonium and diammonium terminal molecules

Zihao Zang, Mingyu Ma, Xianyuan Jiang, Wenjia Zhou, Chaowaphat Seriwattanachai, Pongsakorn Kanjanaboos and Zhijun Ning*

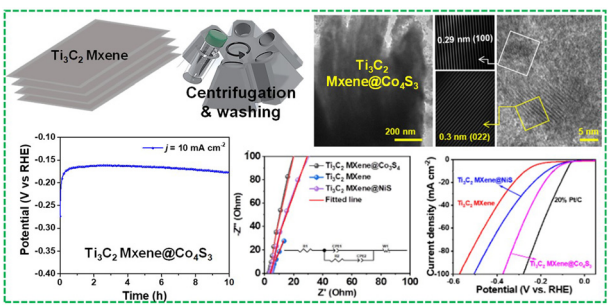
1835



Controlled growth of a 2D/2D heterojunction for high-performance sodium ion storage

Shujin Cheng, Zicheng Zuo* and Yuliang Li*

1844



MXene composite with Ni/Co sulfide for enhanced hydrogen evolution reaction

Mohit Kumar, Bhimanaboina Ramulu and Jae Su Yu*

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