

Journal of Materials Chemistry B

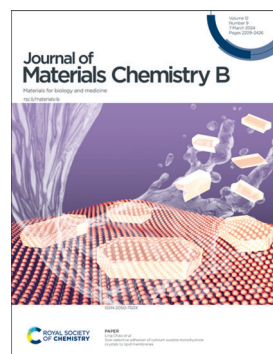
Materials for biology and medicine

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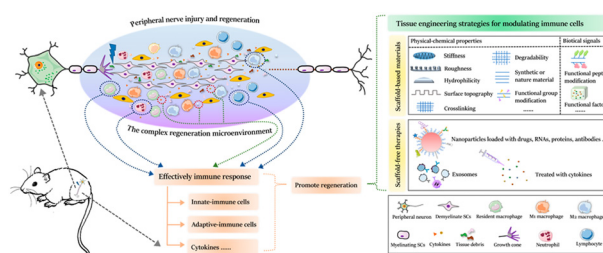
See Ling Chao *et al.*, pp. 2274–2281. Image reproduced by permission of Ziyu Cui and Che-Lun Chin from *J. Mater. Chem. B*, 2024, 12, 2274.

REVIEWS

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Immune-cell-mediated tissue engineering strategies for peripheral nerve injury and regeneration

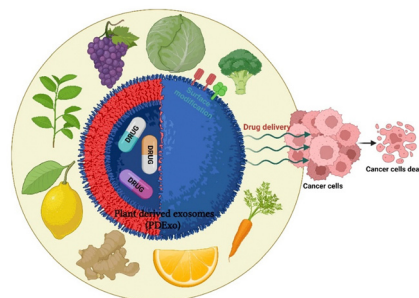
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Plant-derived exosomes: a green approach for cancer drug delivery

Shrishti Madhan, Rajib Dhar and Ariketh Devi*



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Fundamental questions
Elemental answers

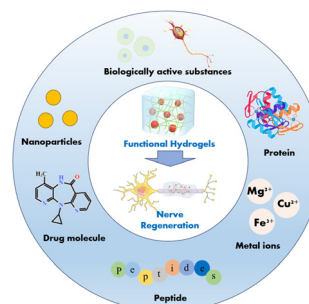


REVIEWS

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Recent advances in peptide-based bioactive hydrogels for nerve repair and regeneration: from material design to fabrication, functional tailoring and applications

Zhengang Sun, Huiqiang Hu, Xingchao Zhang, Xin Luan, Yongming Xi,* Gang Wei* and Xuanfen Zhang*

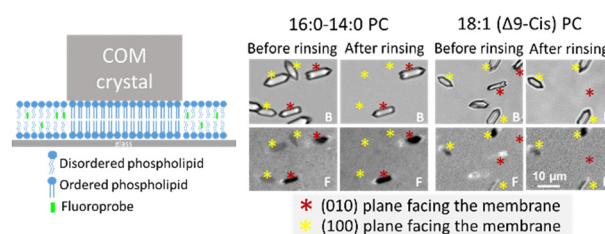


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Size-selective adhesion of calcium oxalate monohydrate crystals to lipid membranes

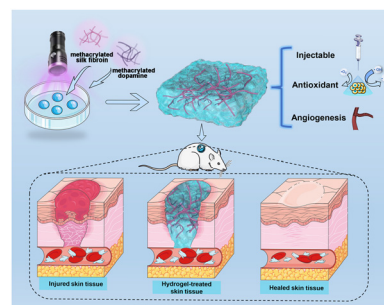
Ziyu Cui, Che-Lun Chin, Akhtar Fikri Kurniawan, Ching-Chun Huang, Ling-Ting Huang and Ling Chao*



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An injectable photocuring silk fibroin-based hydrogel for constructing an antioxidant microenvironment for skin repair

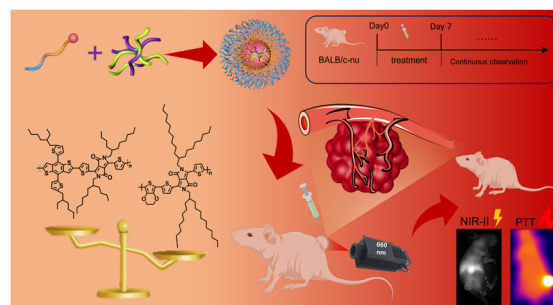
Tangjinhai Liu, Yuxiang Wang, Jingyi Liu, Xiaowen Han, Yaping Zou, Peilei Wang, Ruiling Xu, Lei Tong, Junli Liu,* Jie Liang, Yong Sun, Yujiang Fan* and Xingdong Zhang



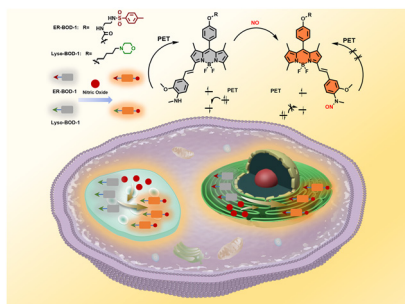
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Design of donor–acceptor conjugated polymers based on diketopyrrolopyrrole for NIR-II multifunctional imaging

Mengyu Cao, Xuezhen Ma, Chang Wang, Wentao Zou, Fang Wang, Bing Yu,* Hailin Cong* and Youqing Shen



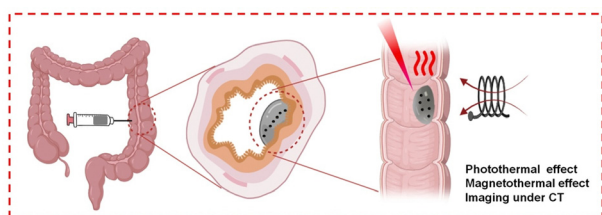
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Engineering organelle-specific activatable molecules for ultra-fast and reliable *in situ* mapping of subcellular nitric oxide

Lixin Sun, Xinyu Wang, Rui Chen, Xuemei Dong, Jie Sun, Chengjun Dong, Haijiao Xie, Xianfeng Gu* and Chunchang Zhao*

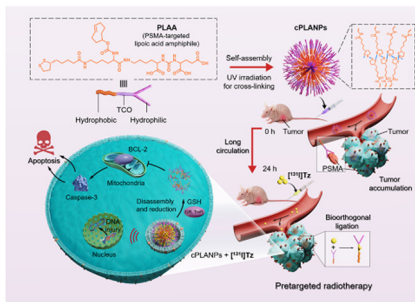
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Magnetic and injectable Fe-doped liquid metals for controlled movement and photothermal/electromagnetic therapy

Yingjie Cao, Linlin Fan,* Jianye Gao, Xiyu Zhu, Bingjie Wu, Hongzhang Wang, Bo Wang, Jun Shi* and Jing Liu*

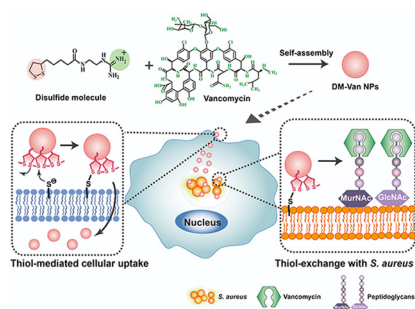
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Pretargeted radiotherapy and synergistic treatment of metastatic, castration-resistant prostate cancer using cross-linked, PSMA-targeted lipoic acid nanoparticles

Liqun Dai, Xiaoyang Zhang, Siming Zhou, Jie Li, Lili Pan, Chunyan Liao, Zhipeng Wang, Ying Chen, Guohua Shen, Lin Li, Rong Tian, Hongbao Sun, Zhenhua Liu,* Shiyong Zhang* and Haoxing Wu*

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A disulfide molecule–vancomycin nanodrug delivery system efficiently eradicates intracellular bacteria

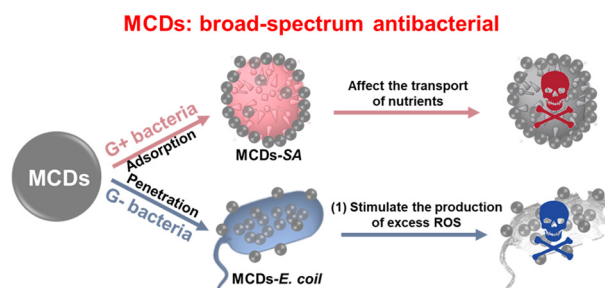
Yuting Luo, Liu Su, Hui Yang, Aizhen Geng, Shumeng Bai* and Jie Zhou*



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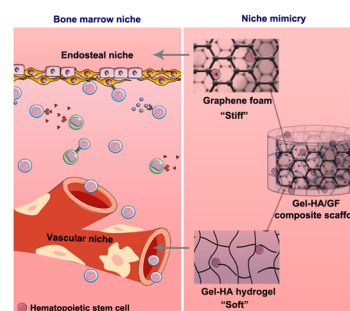
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Bone marrow-inspired hydrogel/graphene composite scaffolds to support *in vitro* expansion of hematopoietic stem cells

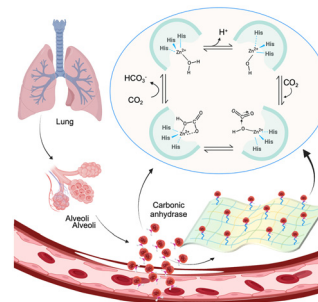
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Immobilization of carbonic anhydrase on modified PES membranes for artificial lungs

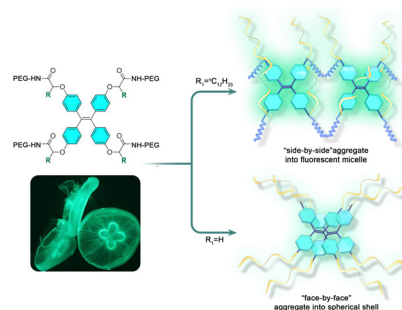
Yi Wang, Chong Cheng, Shuang Li, Shudong Sun* and Changsheng Zhao*



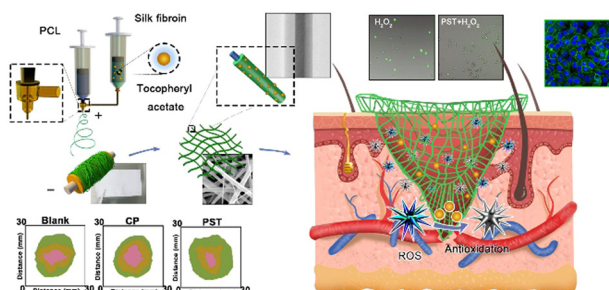
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Jellyfish-inspired smart tetraphenylethene lipids with unique AIE fluorescence, thermal response, and cell membrane interaction

Yujie Zheng, Yu Li, Changsheng Ke, Mojie Duan, Lijun Zhu, Xin Zhou, Minghui Yang, Zhong-Xing Jiang* and Shizhen Chen*



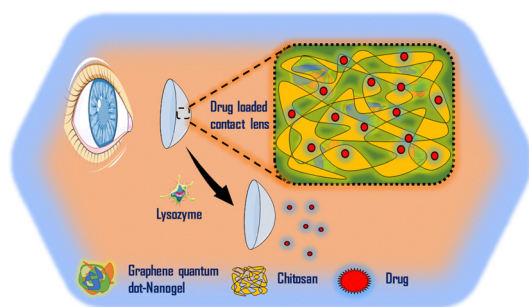
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Fabrication of a core-shell nanofibrous wound dressing with an antioxidant effect on skin injury

Kexin Feng, Jinlan Tang, Ruiyang Qiu, Bin Wang,*
Jianglin Wang and Weikang Hu*

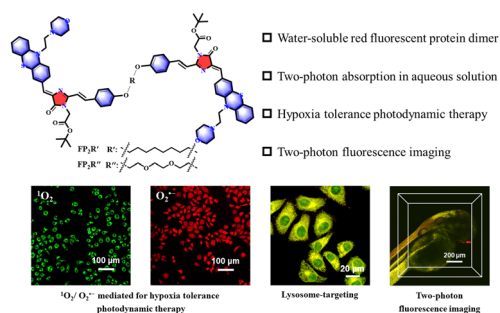
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A promising 'single' and 'dual' drug-nanocomposite enriched contact lens for the management of glaucoma in response to the tear fluid enzyme

B. N. Kumara, K. Velmurugan, M. Vivek Ghate,
R. Shambhu, Jayabalan Nirmal* and
K. Sudhakara Prasad*

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Water-soluble red fluorescent protein dimers for hypoxic two-photon photodynamic therapy

Wan Feng and Ying Qian*

