

# Journal of Materials Chemistry B

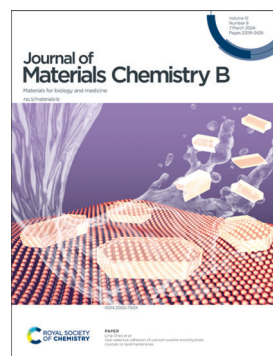
Materials for biology and medicine

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### Cover

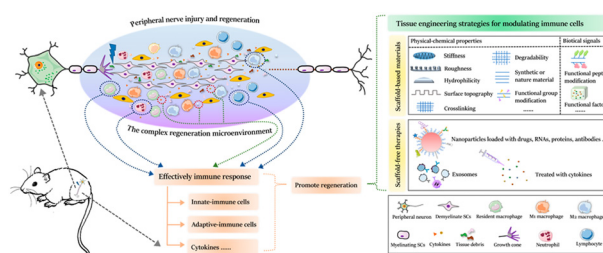
See Ling Chao *et al.*, pp. 2274–2281. Image reproduced by permission of Ziyu Cui and Che-Lun Chin from *J. Mater. Chem. B*, 2024, 12, 2274.

## REVIEWS

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

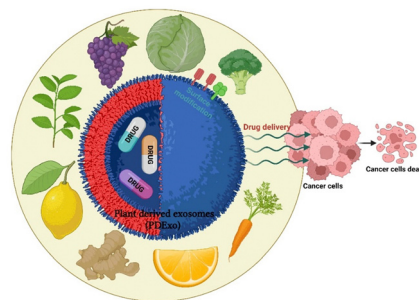
Xueying Zhao, Hui Deng, Yuan Feng, Yuehan Wang, Xiaomin Yao, Yuyang Ma, Luzhong Zhang, Jing Jie,\* Pengxiang Yang\* and Yumin Yang\*



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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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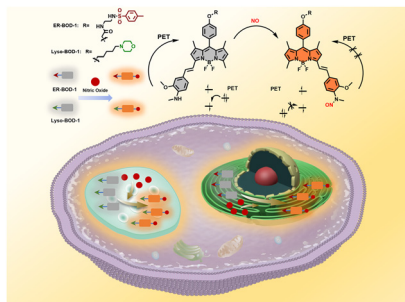
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Fundamental questions  
Elemental answers





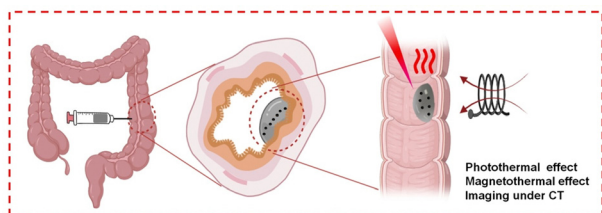
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### Engineering organelle-specific activatable molecules for ultra-fast and reliable *in situ* mapping of subcellular nitric oxide

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

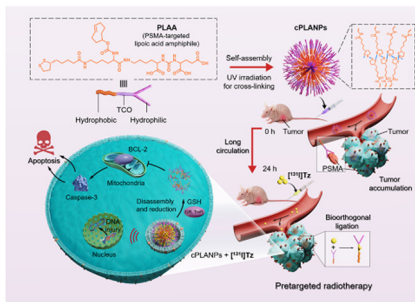
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### Magnetic and injectable Fe-doped liquid metals for controlled movement and photothermal/electromagnetic therapy

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

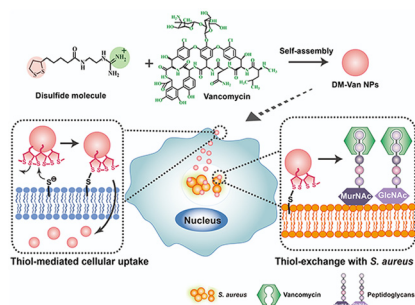
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### Pretargeted radiotherapy and synergistic treatment of metastatic, castration-resistant prostate cancer using cross-linked, PSMA-targeted lipoic acid nanoparticles

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

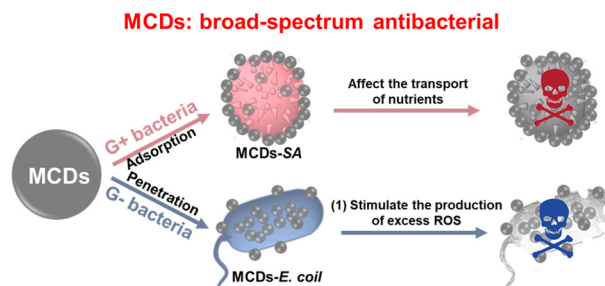
Yuting Luo, Liu Su, Hui Yang, Aizhen Geng, Shumeng Bai\* and Jie Zhou\*



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### Carbon dots derived from metformin by electrochemical synthesis with broad-spectrum antibacterial properties

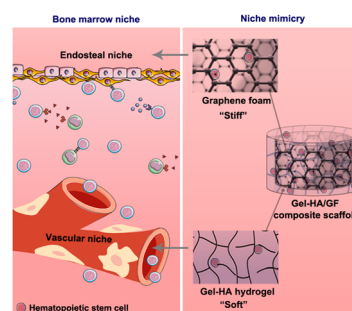
Xin Du, Mengling Zhang,\* Yurong Ma, Yan Zhang, Wenwen Li, Tao Hu, Yang Liu,\* Hui Huang\* and Zhenhui Kang



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

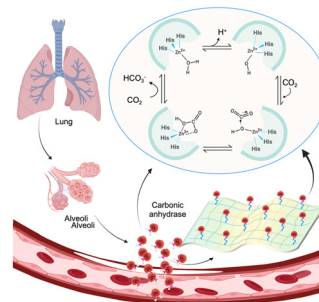
Jing Hong, Zhanchi Zhu, Leisha Cui, Zhaojun Wang, Ying Hao,\* Xiaopeng Tian\* and Guosheng Cheng\*



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### Immobilization of carbonic anhydrase on modified PES membranes for artificial lungs

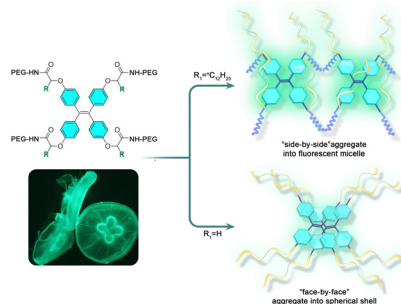
Yi Wang, Chong Cheng, Shuang Li, Shudong Sun\* and Changsheng Zhao\*



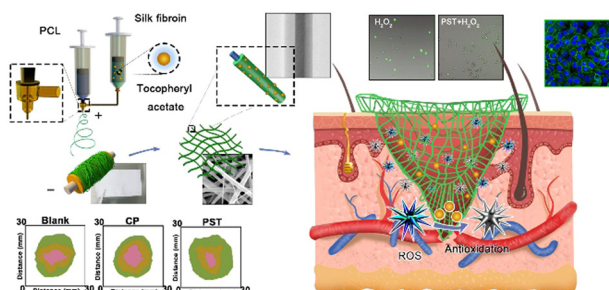
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### Jellyfish-inspired smart tetraphenylethene lipids with unique AIE fluorescence, thermal response, and cell membrane interaction

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



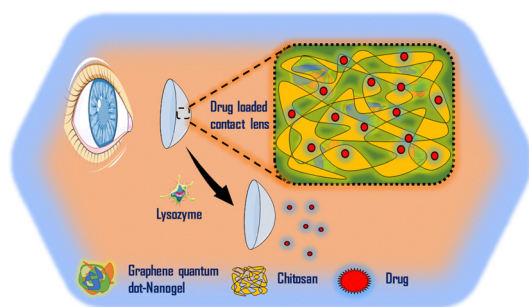
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### Fabrication of a core-shell nanofibrous wound dressing with an antioxidant effect on skin injury

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

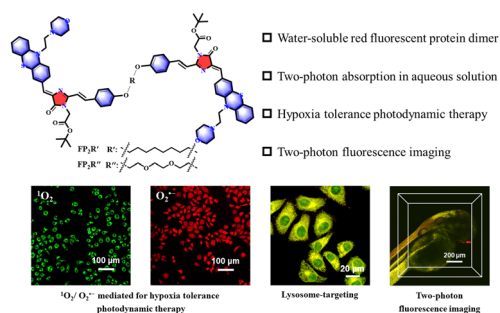
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### A promising 'single' and 'dual' drug-nanocomposite enriched contact lens for the management of glaucoma in response to the tear fluid enzyme

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\*

