

# Journal of Materials Chemistry B

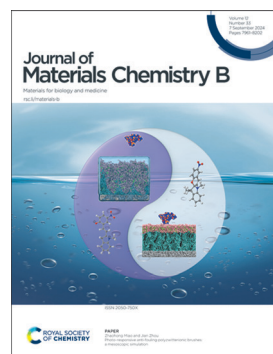
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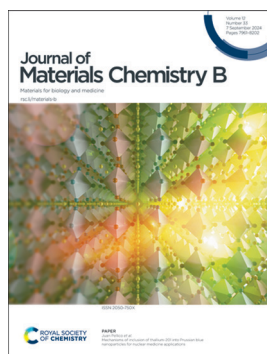
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See Zhaohong Miao and Jian Zhou, pp. 8076–8086. Image reproduced by permission of Jian Zhou from *J. Mater. Chem. B*, 2024, 12, 8076.



### Inside cover

See Juan Pellico *et al.*, pp. 8087–8098. Image reproduced by permission of Juan Pellico and Phillip Blower from *J. Mater. Chem. B*, 2024, 12, 8087.

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### Sculpturing the future of water-soluble cyclodextrin branched polymers in pharmaceutical applications

Marco Agnes\*, Arianna Mazza, Milo Malanga and Ilse Manet\*

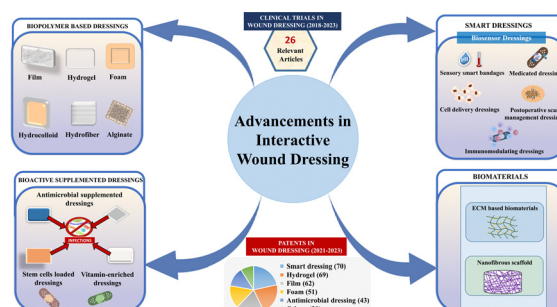


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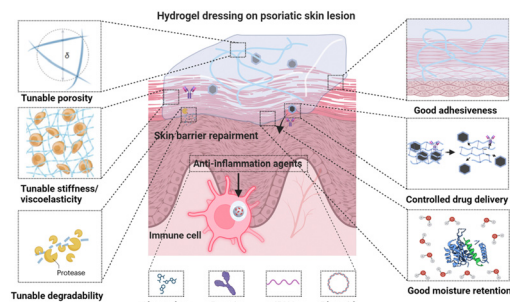


## REVIEWS

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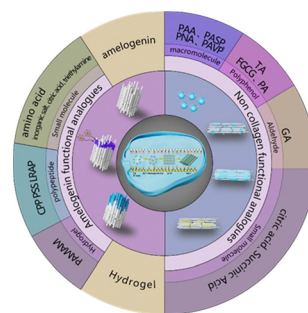
Huali Cao, Ming Wang, Jianwei Ding and Yiliang Lin\*



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**Application of a calcium and phosphorus biomineralization strategy in tooth repair: a systematic review**

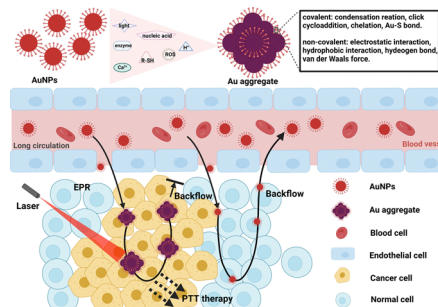
Haide Dong, Danyang Wang, Hanyue Deng, Lijuan Yin, Xiongying Wang, Weihu Yang\* and Kaiyong Cai\*



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**Aggregable gold nanoparticles for cancer photothermal therapy**

Mingyu Wu, Yao Xiao, Rongkun Wu, Jiaojiao Lei, Tian Li\* and Youkun Zheng\*

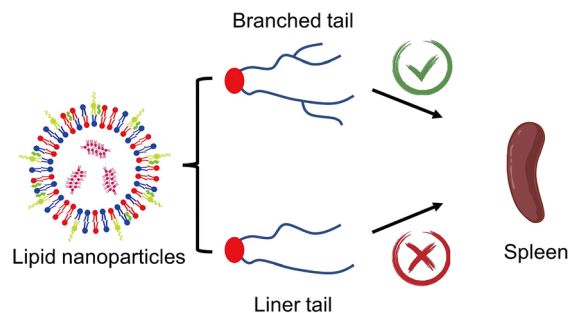


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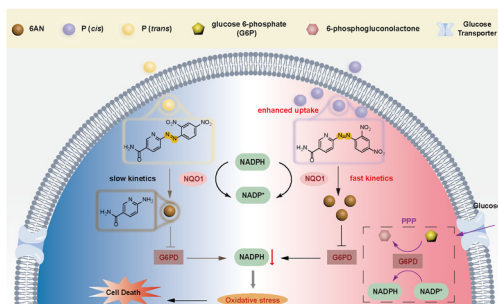
**Enhancing spleen-targeted mRNA delivery with branched biodegradable tails in lipid nanoparticles**

Yupeng Ren, Ling Zeng, Yingsen Tang, Jing Liao, Meng Jiang, Xinxiu Cao,\* Hui Fan\* and Jinjin Chen\*



## COMMUNICATIONS

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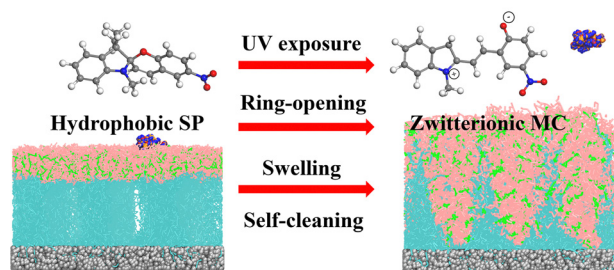


### Engineering hypoxia-responsive 6-aminonicotinamide prodrugs for on-demand NADPH depletion and redox manipulation

Mingye Li, Yuyu Dong, Zheng Wang, Yanjun Zhao,\* Yujie Dai\* and Baoxin Zhang\*

## PAPERS

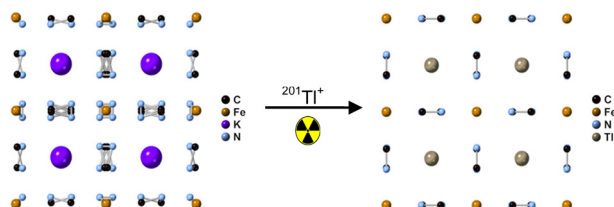
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### Photo-responsive anti-fouling polyzwitterionic brushes: a mesoscopic simulation

Zhaohong Miao and Jian Zhou\*

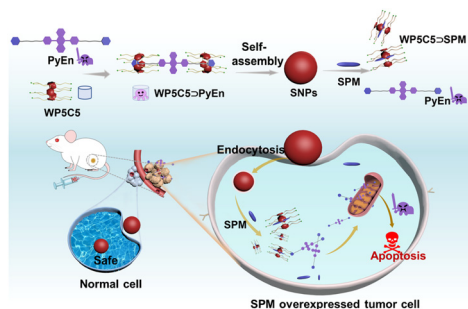
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Yongfei Yin, Pei Zeng, Yifan Duan, Jun Wang, Wei Zhou, Penghao Sun, Zhanting Li, Lu Wang,\* Huageng Liang\* and Shigui Chen\*



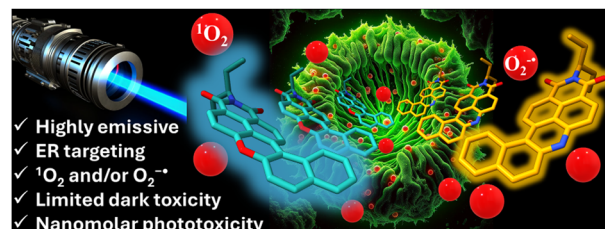


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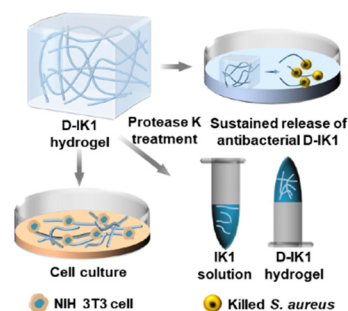
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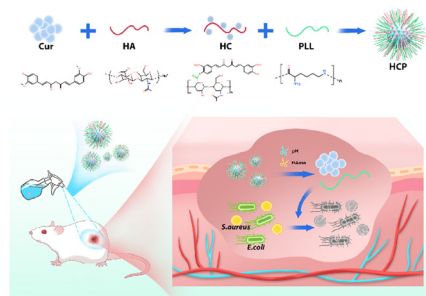
Yu Tian, Yangqian Hou, Jiakun Tian, Jin Zheng, Zeyu Xiao, Jun Hu and Yi Zhang\*



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## A multifunctional nanoplatform for precision-guided therapeutic intervention in bacterial infection

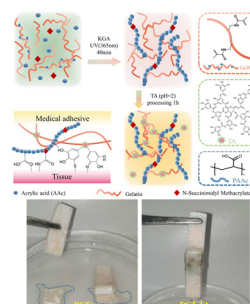
Jinli Dou, Juan Li, Jingjing Liu, Jinmeng Shang, Wei Tan, Xia Miao,\* Jin Zhou\* and Guifang Guo\*



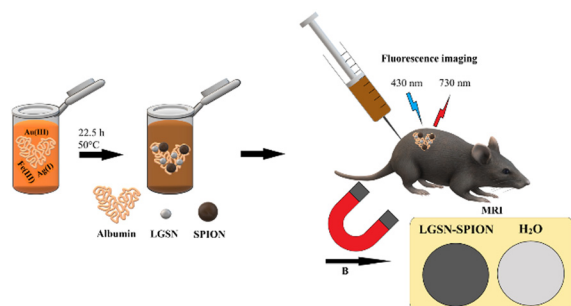
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Yi Ju, Junjie Wang, Yang Lei\* and Yunbing Wang



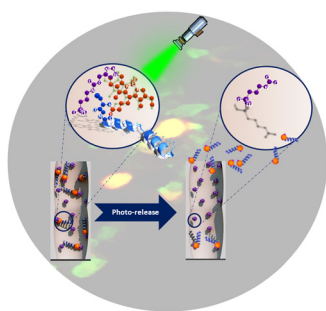
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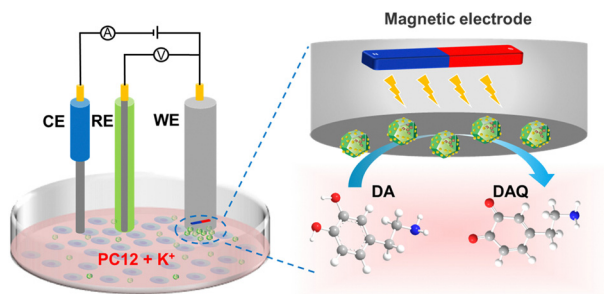
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### Grafting and controlled release of antimicrobial peptides from mesoporous silica

Mohadeseh Bagherabadi, Marie Fleckenstein, Oleksandr Moskalyk, Andrea Belluati, Olga Avrutina and Annette Andrieu-Brunsen\*

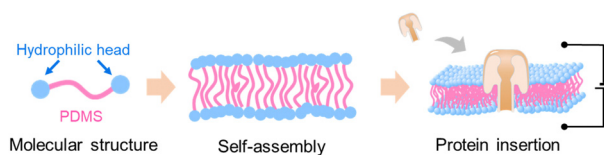
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### Magnetic MOF composites for the electrocatalysis and biosensing of dopamine released from living cells

Jiarong Guo, Ying Ma, Tongyu Han, Jiao Yang\* and Peng Miao\*

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### Formation of a planar biomimetic membrane with a novel zwitterionic polymer for nanopore sequencing

Xiaowei Yang, Jinfeng Yang, Lai Wei, Yuning Zhang, Jingnan Yang,\* Ming Ni\* and Yuliang Dong\*

