

# Journal of Materials Chemistry B

Materials for biology and medicine

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### Cover

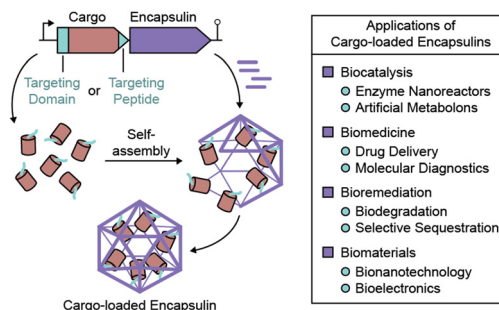
See Chongshan Liao *et al.*, pp. 4396–4407. Image reproduced by permission of Tong Xu and Chongshan Liao from *J. Mater. Chem. B*, 2023, **11**, 4396.

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Jesse A. Jones, Robert Benisch and Tobias W. Giessen\*

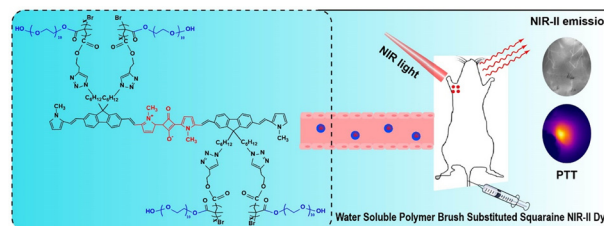


## COMMUNICATION

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### Water-soluble polymer brush-substituted squaraine NIR-II dye for efficient photothermal therapy

Xiaoli Li, Song Guo, Weixing Deng,\* Si Wu, Pengfei Sun\* and Yuanli Liu\*



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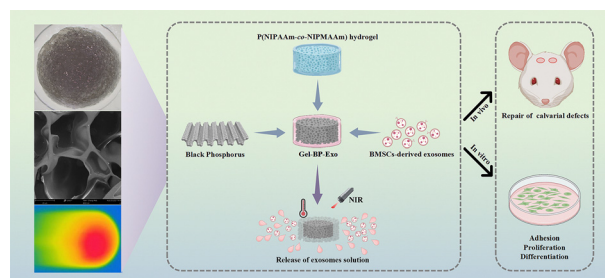
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## Black phosphorus thermosensitive hydrogels loaded with bone marrow mesenchymal stem cell-derived exosomes synergistically promote bone tissue defect repair

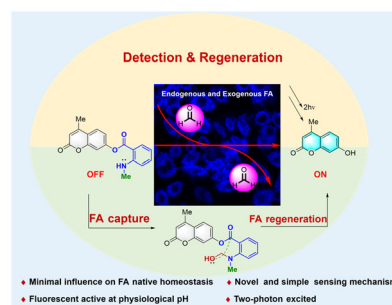
Tong Xu, Yongmei Hua, Peng Mei, Deliang Zeng, Shengjie Jiang and Chongshan Liao\*



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## A two-photon fluorescent probe for formaldehyde detection and regeneration in living cells

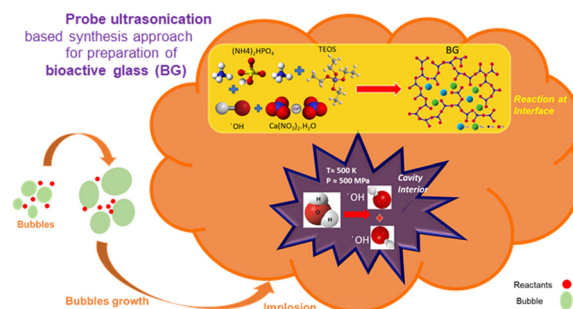
Qi Song, Zhiqiang Liu, Jie Niu, Bowen Zheng, Jingcheng Hao and Jie Jiang\*



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## Rapid wet chemical synthesis of bioactive glass with high yield by probe sonication

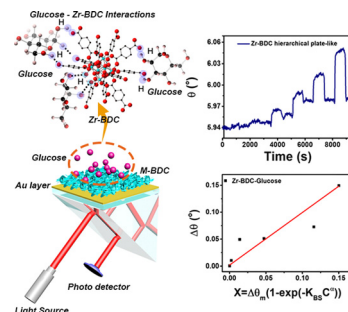
Asma Tufail Shah,\* Mehvish Zahoor, Nawshad Muhammad, Franz Kamutzki, Johannes Schmidt and Oliver Görke\*



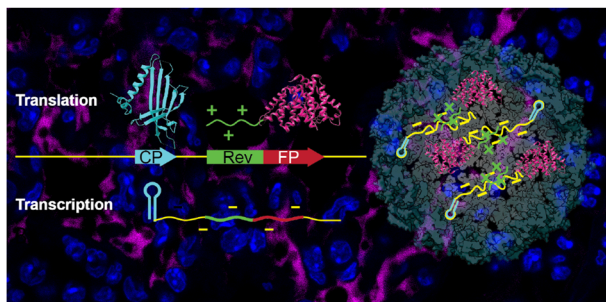
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## The revelation of glucose adsorption mechanisms on hierarchical metal–organic frameworks using a surface plasmon resonance sensor

Gilang Gumilar,\* Silvia Chowdhury, Ganes Shukri, Aep Patah, Nugraha Nugraha, Joel Henzie, Isa Anshori, Yusuf Valentino Kaneti and Brian Yulianto\*



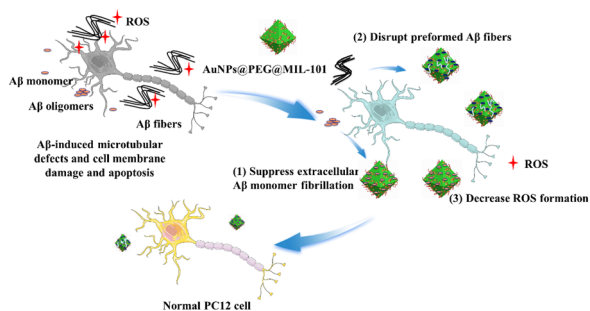
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### Self-assembly of a fluorescent virus-like particle for imaging in tissues with high autofluorescence

Ikeda Trashi, Mateusz Z. Durbacz, Orikeda Trashi, Yalini H. Wijesundara, Ryanne N. Ehrman, Alyssa C. Chiev, Cary B. Darwin, Fabian C. Herbert, Jashkaran Gadhvi, Nicole J. De Nisco, Steven O. Nielsen and Jeremiah J. Gassensmith\*

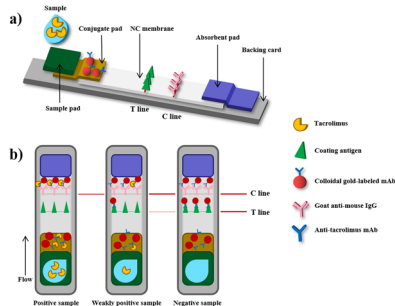
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### Electrostatic assembly of gold nanoparticle and metal–organic framework nanoparticles attenuates amyloid $\beta$ aggregate-mediated neurotoxicity

Licong Yang, Yutong Chen, Zhi Jia, Xiaoyu Yuan and Jie Liu\*

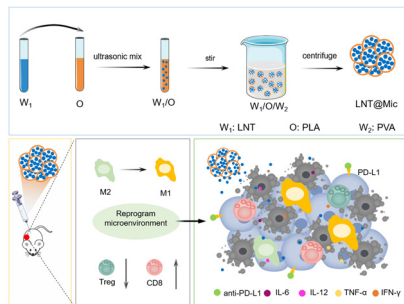
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### A gold-based immunochromatographic strip for the specific detection of tacrolimus in whole blood

Xiaoqian Jiang, Xinxin Xu, Hua Kuang, Liqiang Liu, Liguang Xu, Aihua Qu\* and Chuanlai Xu\*

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### Lentinan-laden microspheres reprogram the tumor microenvironment and improve anti-PD-L1 efficacy

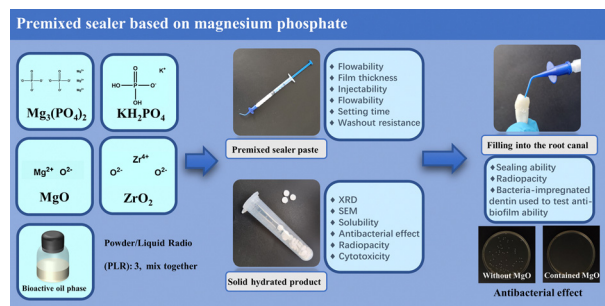
Haixin Wang, Xiao-Dong Gao\* and Hua Yue\*



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### A premixed magnesium phosphate-based sealer with anti-biofilm ability for root canal filling

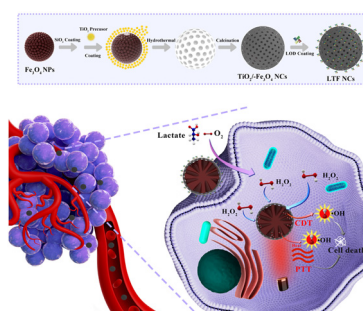
Dongjing Xu, Jiawei Liu, Honglian Dai,\* Jinyong Zhang, Wen Hou, Xiaopei Wu and Yanan Zhao



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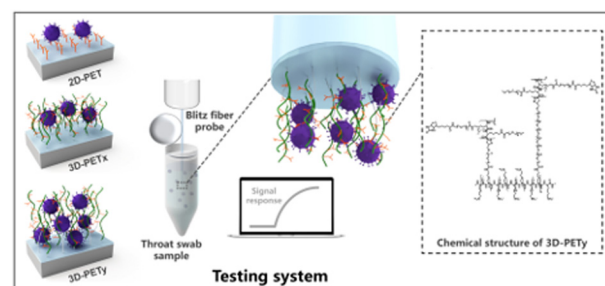
Yali Shi, Wenya Chang, Liying Zhao, Jiaqi Zhang, Yumeng Yue, Zhuoying Xie\* and Dawei Deng\*



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### Rational design of multivalent biosensor surfaces to enhance viral particle capture

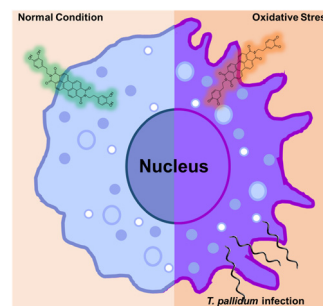
Wenwei Pan, Ziyu Han, Ye Chang, Xu Yan, Feng Zhou, Sihong Shen and Xuexin Duan\*



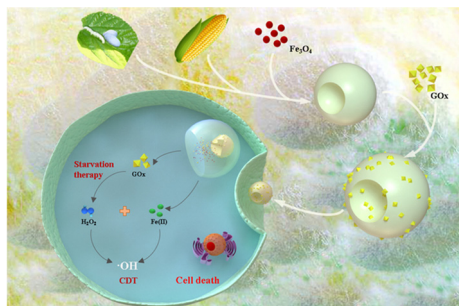
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### A tunable fluorescent probe for superoxide anion detection during inflammation caused by *Treponema pallidum*

Weiqliang Lin, Jialin Huang, Shuang Guo, Meijiao Zhao, Xu Chen, Qiuping Shang, Ruoyuan Zhang, Guangfu Liao,\* Judun Zheng\* and Yuhui Liao\*



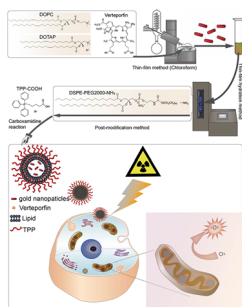
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### Enzyme/inorganic nanoparticle dual-loaded animal protein/plant protein composite nanospheres and their synergistic effect in cancer therapy

Qiaolin Chen, Mi Wu, Jinrong Yao, Zhengzhong Shao and Xin Chen\*

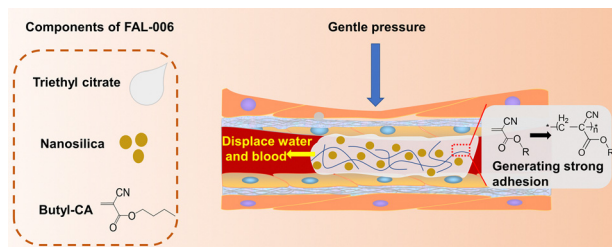
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Xuefan Gu, Tiantian Shu, Wei Deng, Chao Shen and Youshen Wu\*

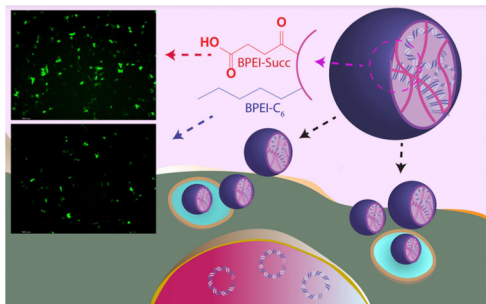
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Jia Wang, Xia Tian, Wei Zhang, Xiao Dong, Zhanguang Wang, Shiyuan Wang, Yonghan Liang, Wei Wang,\* Liang Xu\* and Yunlan Li\*

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Fernando A. de Oliveira, Lindomar J. C. Albuquerque, Michelle Nascimento-Sales, Marcelo A. Christoffolete, Ismael C. Bellettini and Fernando C. Giacomelli\*

