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Journal of Materials Chemistry B

Materials for biology and medicine

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Cover
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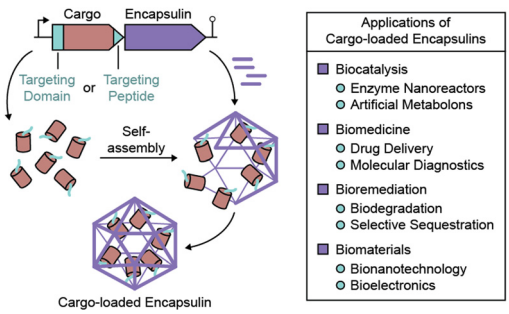
REVIEW

4377

Encapsulin cargo loading: progress and potential

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



COMMUNICATION

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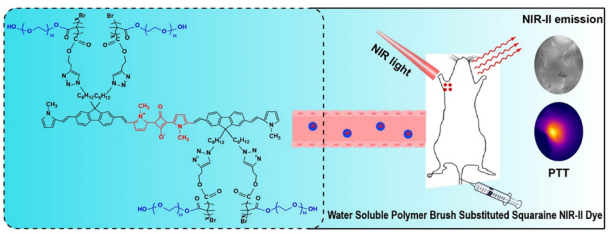
Water-soluble polymer brush-substituted squaraine NIR-II dye for efficient photothermal therapy

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



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PAPERS

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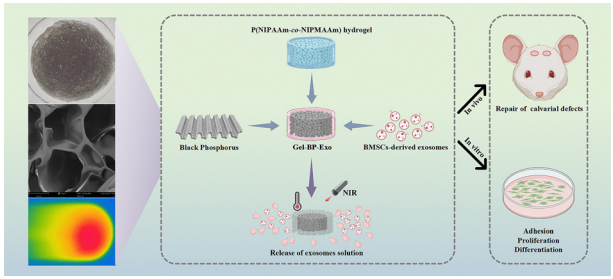
Black phosphorus thermosensitive hydrogels loaded with bone marrow mesenchymal stem cell-derived exosomes synergistically promote bone tissue defect repair

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



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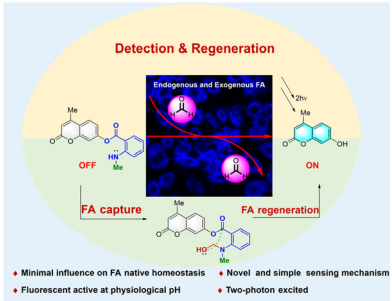
A two-photon fluorescent probe for formaldehyde detection and regeneration in living cells

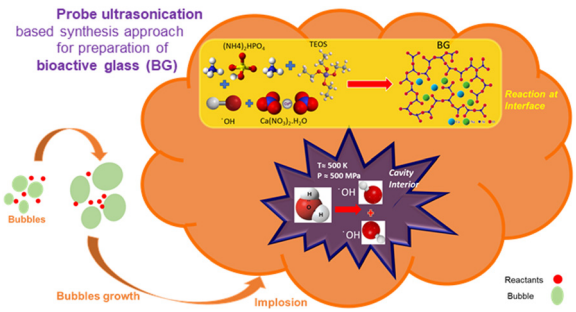
Qi Song, Zhiqiang Liu, Jie Niu, Bowen Zheng, Jingcheng Hao and Jie Jiang*



4416

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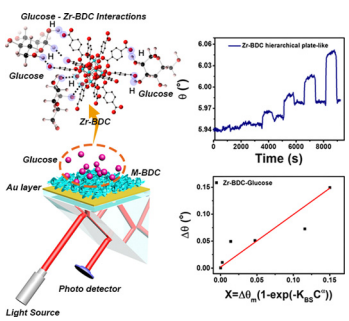
The revelation of glucose adsorption mechanisms on hierarchical metal–organic frameworks using a surface plasmon resonance sensor

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



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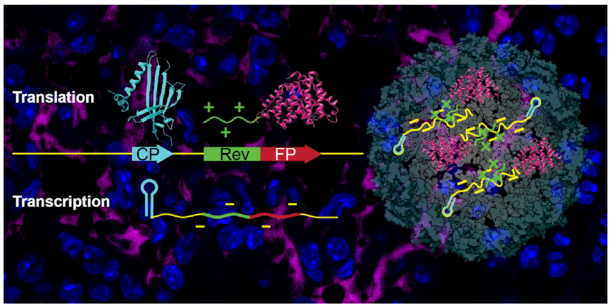

Self-assembly of a fluorescent virus-like particle for imaging in tissues with high autofluorescence

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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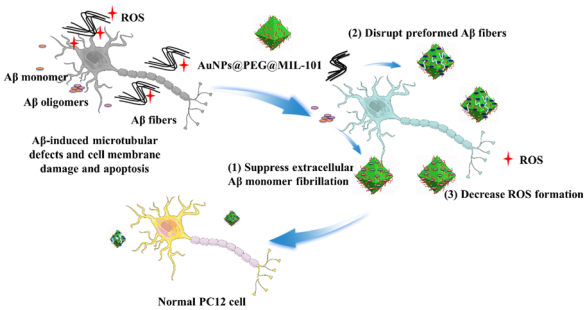

Electrostatic assembly of gold nanoparticle and metal–organic framework nanoparticles attenuates amyloid β aggregate-mediated neurotoxicity

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

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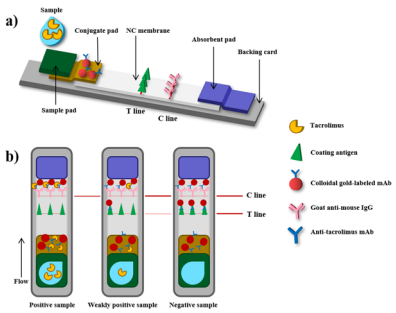

A gold-based immunochromatographic strip for the specific detection of tacrolimus in whole blood

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

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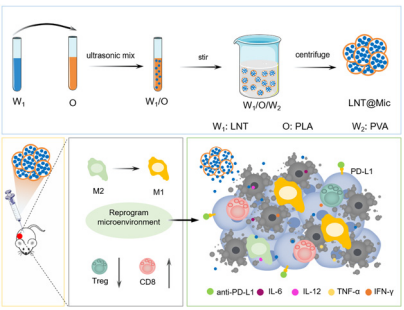

Lentinan-laden microspheres reprogram the tumor microenvironment and improve anti-PD-L1 efficacy

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

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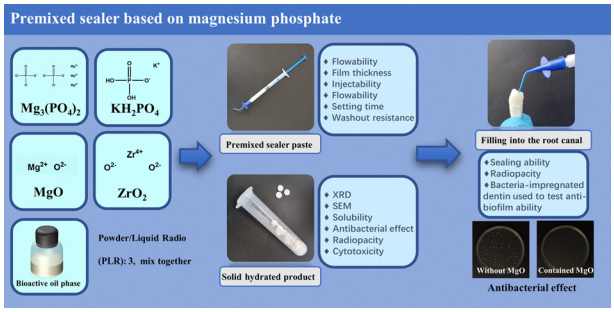
A premixed magnesium phosphate-based sealer with anti-biofilm ability for root canal filling

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



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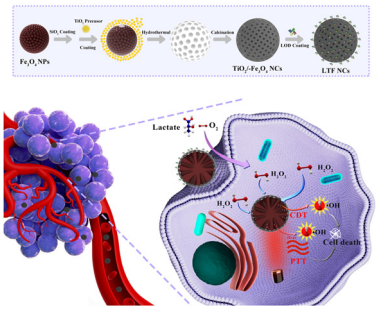
A small pore black TiO_2/-large pore Fe_3O_4 cascade nanoreactor for chemodynamic/photothermal synergetic tumour therapy

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



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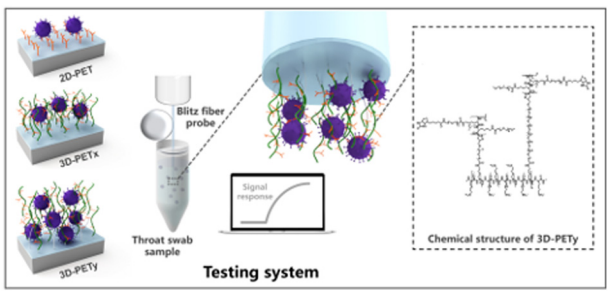
Rational design of multivalent biosensor surfaces to enhance viral particle capture

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



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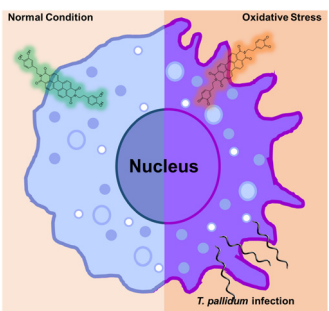
A tunable fluorescent probe for superoxide anion detection during inflammation caused by *Treponema pallidum*

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



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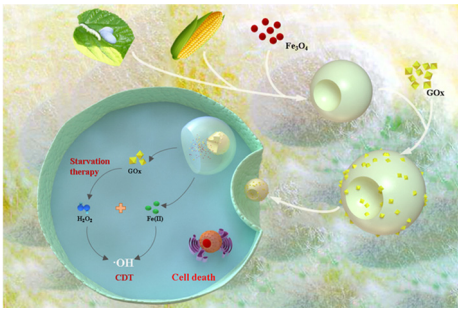

Enzyme/inorganic nanoparticle dual-loaded animal protein/plant protein composite nanospheres and their synergistic effect in cancer therapy

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

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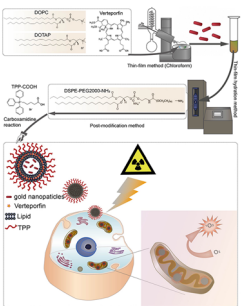

An X-ray activatable gold nanorod encapsulated liposome delivery system for mitochondria-targeted photodynamic therapy (PDT)

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

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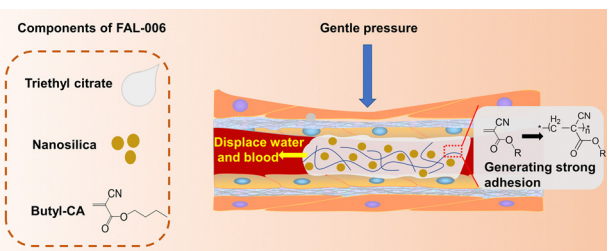

A cyanoacrylate/triethyl citrate/nanosilica-based closure glue with wet-adhesion capability for treatment of superficial varicose veins

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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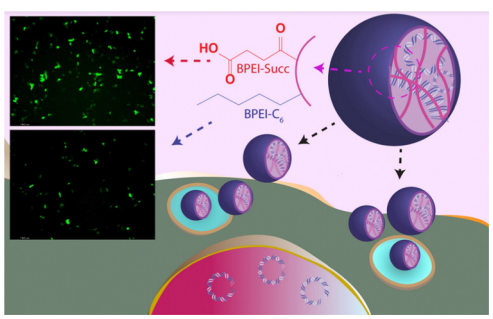

Balancing gene transfection and cytotoxicity of nucleic acid carriers with focus on ocular and hepatic disorders: evaluation of hydrophobic and hydrophilic polyethyleneimine derivatives

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

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