

Journal of Materials Chemistry B

Materials for biology and medicine

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2023 *Journal of Materials Chemistry* Lectureship winner: Dr Jovana Milić, University of Fribourg, Switzerland



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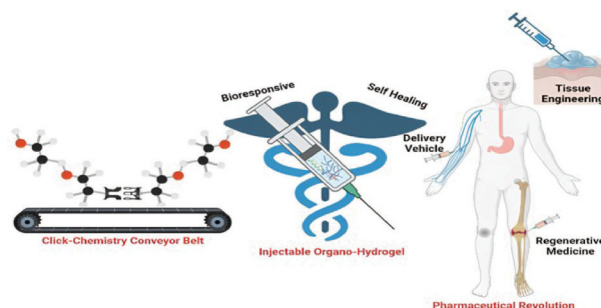


PERSPECTIVE

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Injectable organo-hydrogels influenced by click chemistry as a paramount stratagem in the conveyor belt of pharmaceutical revolution

Abhyavartin Selvam, Misba Majood, Radhika Chaurasia, Rupesh, Akanksha Singh, Tapan Dey, Omnarayan Agrawal, Yogesh Kumar Verma and Monalisa Mukherjee*

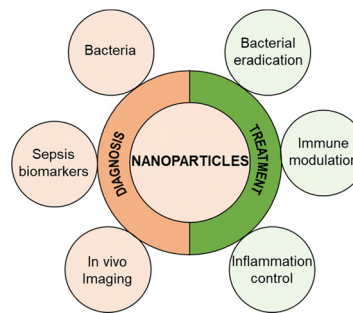


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Recent advances and prospects in nanomaterials for bacterial sepsis management

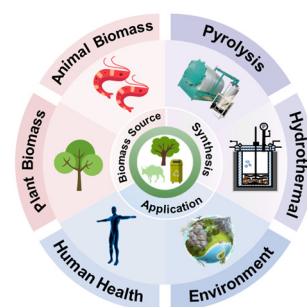
Chaoyang Zhou,* Yong Liu,* Yuanfeng Li* and Linqi Shi



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Biomass-derived 2D carbon materials: structure, fabrication, and application in electrochemical sensors

Xuanyu Xiao, Lei Li, Hui Deng, Yuting Zhong, Wei Deng, Yuanyuan Xu, Zhiyu Chen, Jieyu Zhang, Xuefeng Hu* and Yunbing Wang*

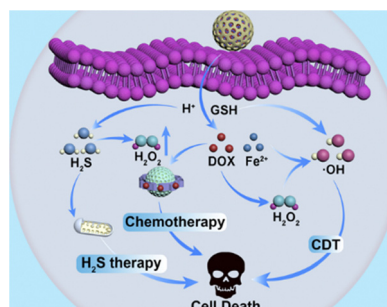


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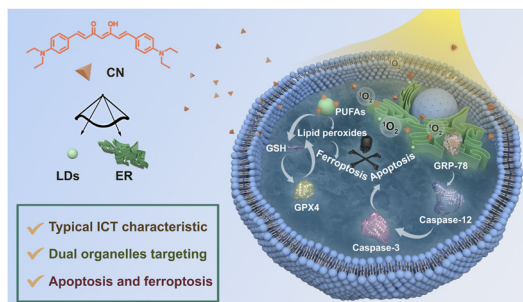
A tetrasulfide bond-bridged mesoporous organosilica-based nanoplatfrom for triple-enhanced chemodynamic therapy combined with chemotherapy and H₂S therapy

Mingzhe Liu, Hui Xu, FangFang Zhou, Xiyu Gong, Songwen Tan and Yongju He*



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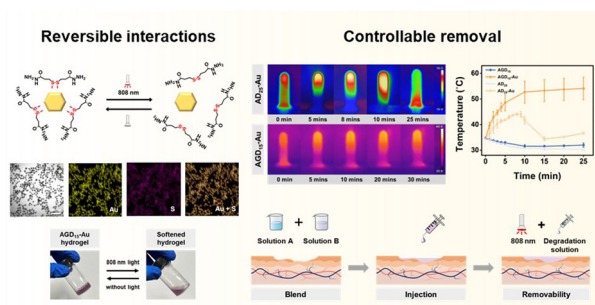
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A dual organelle-targeting photosensitizer based on curcumin for enhanced photodynamic therapy

Yanping Wang, Xuewei Li, Weimin Liu,* Jie Sha, Zhe Yu, Shuai Wang, Haohui Ren, Wenjun Zhang, Chun-Sing Lee and Pengfei Wang*

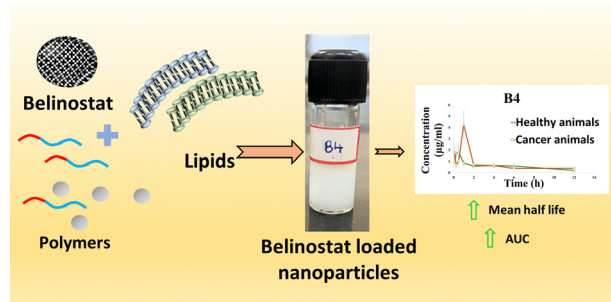
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Injectable spontaneously formed asymmetric adhesive hydrogel with controllable removal for wound healing

Lei Liang, Xi Li, Zhouying Tan, Min Liu, Yuwei Qiu, Qingyu Yu, Chaojie Yu, Mengmeng Yao, Bingyan Guo, Fanglian Yao, Pengcheng Che,* Hong Zhang* and Junjie Li*

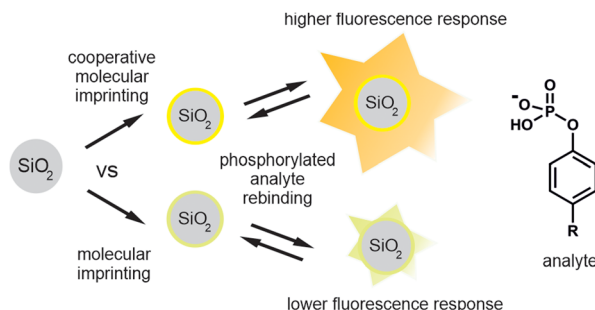
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Belinostat loaded lipid-polymer hybrid nanoparticulate delivery system for breast cancer: improved pharmacokinetics and biodistribution in a tumor model

Kommer Sai Pradyuth, Shubham A. Salunkhe, Arihant Kumar Singh, Deepak Chitkara and Anupama Mittal*

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Towards molecularly imprinted polymers that respond to and capture phosphorylated tyrosine epitopes using fluorescent bis-urea and bis-imidazolium receptors

Evgeniia Kislenco, Anıl İncel, Kornelia Gawlitza, Börje Sellergren and Knut Rurack*

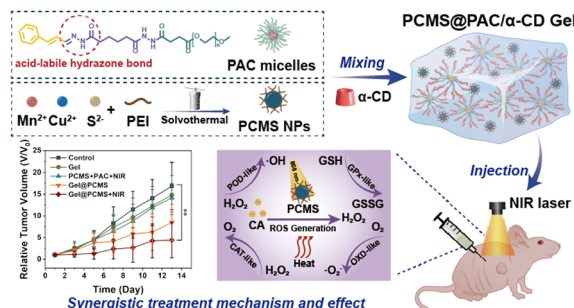


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A pH-responsive supramolecular hydrogel encapsulating a CuMnS nanoenzyme catalyst for synergistic photothermal–photodynamic–chemodynamic therapy of tumours

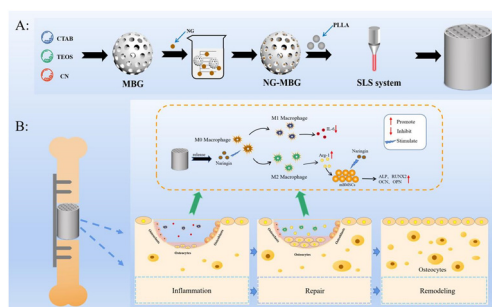
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Direct osteogenesis and immunomodulation dual function *via* sustained release of naringin from the polymer scaffold

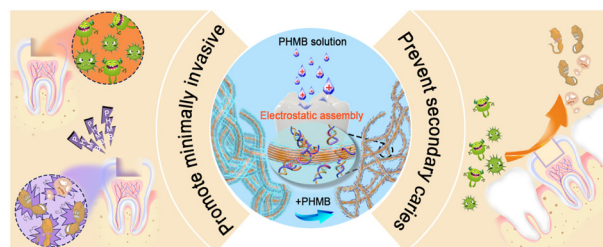
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A polyhexamethylene biguanide-assembly assisted strategy of dentin bonding greatly promotes bonding effects and caries treatment

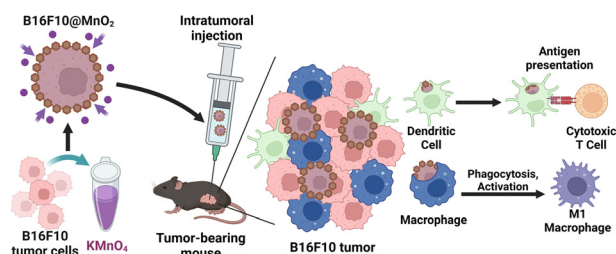
Chang Shu, Yadong Chen, Zhenzhen Zhang, Yuqing Lei, Jiajia Xu, Weiwei Lao, Qingping Xi, Qiang Sun, Xiaojun Li, Hongbing Liao, Qiaojie Luo* and Xiaodong Li



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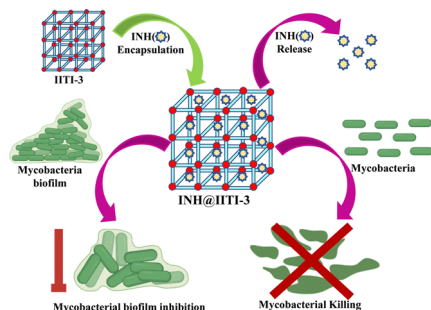
Manganese-mineralized cancer cells as immunogenic cancer vaccines for tumor immunotherapy

Zhenyu Liu, Jiake Lin, Benke Li, Yuemin Zhou, Chen Li, Yihao Cui, Fengchao Tian, Ruikang Tang* and Xiaoyu Wang*



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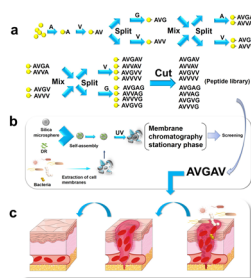
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Exploring the antimicrobial potential of isoniazid loaded Cu-based metal–organic frameworks as a novel strategy for effective killing of *Mycobacterium tuberculosis*

Pawan Kumar, Ananyaashree Behera, Pranav Tiwari, Sibi Karthik, Mainak Biswas, Avinash Sonawane and Shaikh M. Mobin*

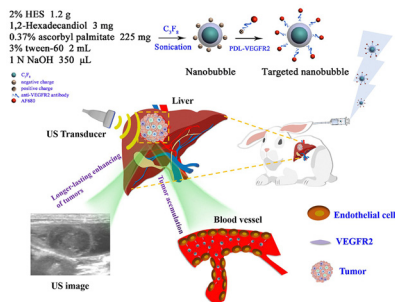
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Screening and investigation of a short antimicrobial peptide: AVGAV

Yang Cao, Linlin Kang, Yumei Wang, Zekai Ren, Han Wu, Xin Liu, Hailin Cong,* Bing Yu* and Youqing Shen

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Novel anti-VEGFR2 antibody-conjugated nanobubbles for targeted ultrasound molecular imaging in a rabbit VX2 hepatic tumor model

Houqiang Yu, Shuanghua Zheng, Cai Wang, Jun Xing and Ling Li*

CORRECTION

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Correction: Injectable organo-hydrogels influenced by click chemistry as a paramount stratagem in the conveyor belt of pharmaceutical revolution

Abhyavartin Selvam, Misba Majood, Radhika Chaurasia, Rupesh, Akanksha Singh, Tapan Dey, Omnarayan Agrawal, Yogesh Kumar Verma and Monalisa Mukherjee*

