

Journal of Materials Chemistry B

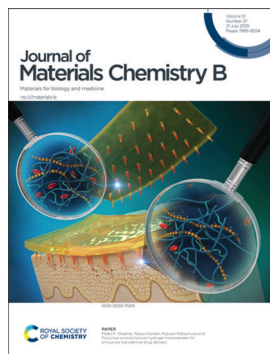
Materials for biology and medicine

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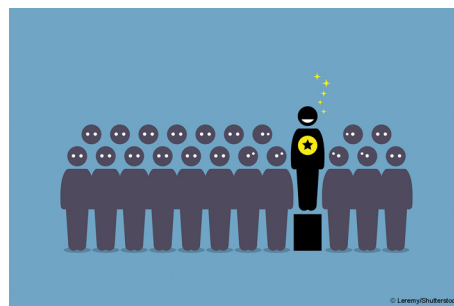
Cover

See Maiko K. Okajima,
Tatsuo Kaneko,
Kazuaki Matsumura *et al.*,
pp. 8014–8025.
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EDITORIAL

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Outstanding Reviewers for *Journal of Materials Chemistry B* in 2024

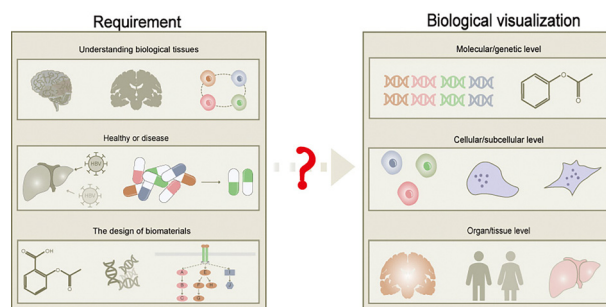


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Decoding tissue complexity: multiscale mapping of chemistry–structure–function relationships through advanced visualization technologies

Zhiyuan Zhao, Haijun Cui* and Haitao Cui*



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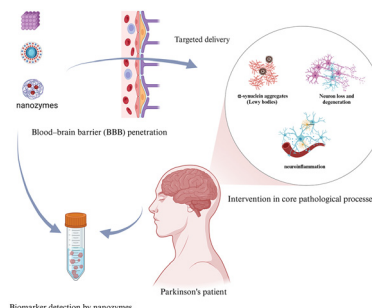
Fundamental questions
Elemental answers

REVIEWS

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Nanozymes in Parkinson's disease: strategic approaches, clinical considerations, and challenges

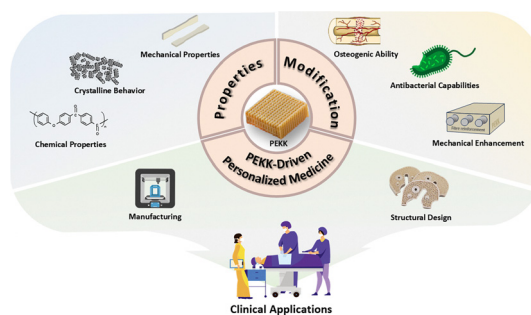
Wanli Huang, Xiaofang Ye, Zhengping Huang, Mimi Li, Binbin Yu, Lichao Ye, Shaobin He* and Chunnuan Chen*



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Exploring PEKK: properties, applications and promise of personalized medicine

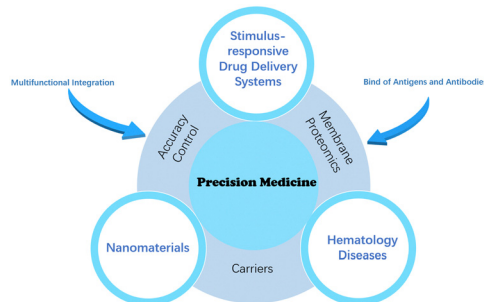
Honglin Zhu, Zhize Liu, Ming Lu, Xiao Han and Shuang Zhang*



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Nanomaterials in stimulus-responsive drug delivery systems facilitate precise therapy for hematologic diseases

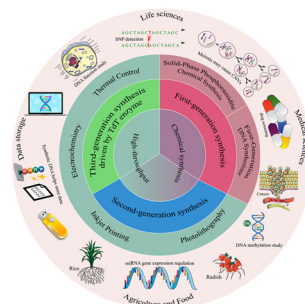
Lingrui Li, Wei Jiang* and Shaowei Qiu*



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Research progress in high-throughput DNA synthesis and its applications

Chongyu Liu, Weihua Zhuang, Liheng Liu, Ying Chen, Chengli Yang, Hao Chen,* Yongchao Yao,* Xuping Sun* and Wenchuang (Walter) Hu*

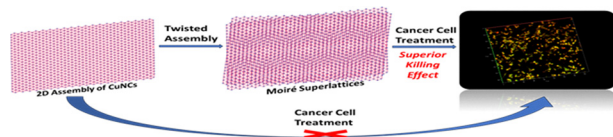


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Moiré superlattices of copper nanocluster assemblies for cancer theranostics

Priya Das, Debashree Debasmita, Sawna Roy, Siddhartha Sankar Ghosh* and Arun Chattopadhyay*

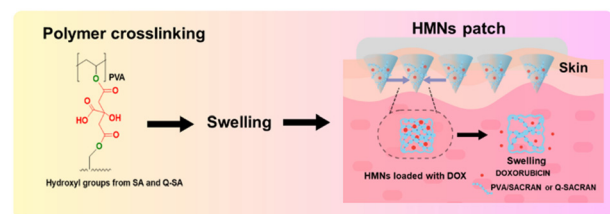


PAPERS

8014

Poly(vinyl alcohol)/sacran hydrogel microneedles for anticancer transdermal drug delivery

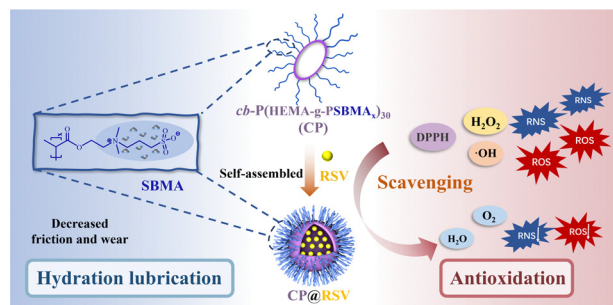
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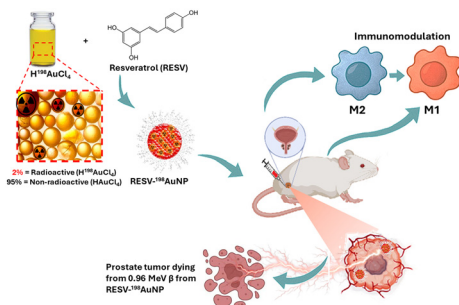
Huizhu Wang, Miao Zhang, Ying Chen, Shaopei Ding, Meng Qin, Tong Wu,* Jianshu Li and Jing Xie*



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Immunomodulatory green nanomedicine production, tumor cellular targeting, *in vivo* biodistributions and preclinical therapeutic efficacy investigations of resveratrol-functionalized gold and theranostic ¹⁹⁸gold nanoparticles

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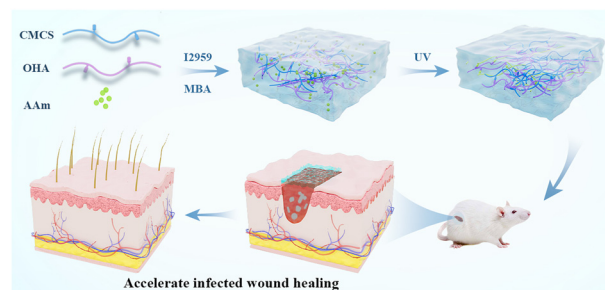


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Extracellular matrix-inspired natural polymer-based composite hydrogel dressings for infected wound healing

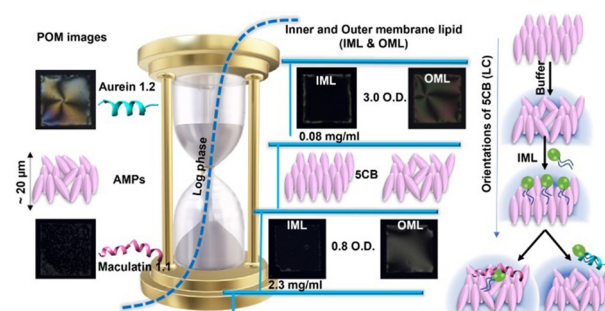
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Liquid crystal–aqueous interface renders selective detection of distinct mycobacterial cell envelope responses

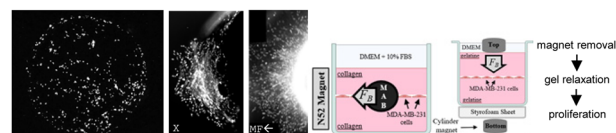
Tarang Gupta, Anjana P Menon, Shobhna Kapoor* and Santanu Kumar Pal*



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Breast cancer extracellular matrix invasion depends on local mechanical loading of the collagen network

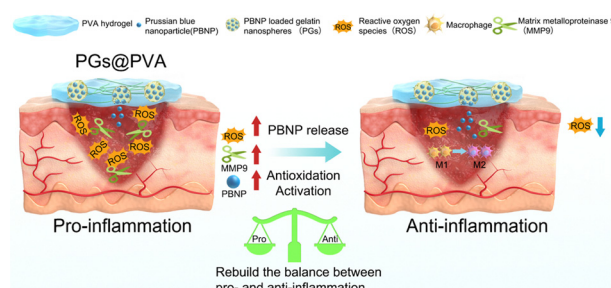
Hanadi M. Alqosiri, Hadeel M. Alqasiri, Sara E. Alqasire, Victor E. Nava, Bidhan C. Bandyopadhyay and Christopher B. Raub*



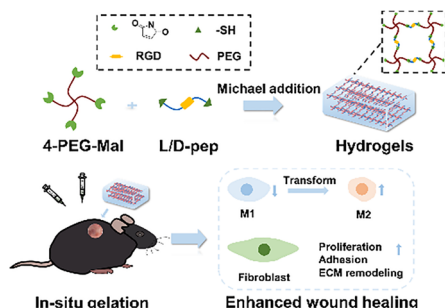
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A MMP9-responsive nanozyme hydrogel to promote diabetic wound healing by reconstructing the balance of pro-inflammation and anti-inflammation

Jinze Wang, Haiqi Zhang, Sentao Hu and Lie Ma*



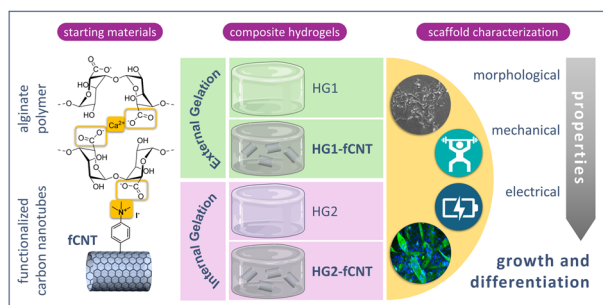
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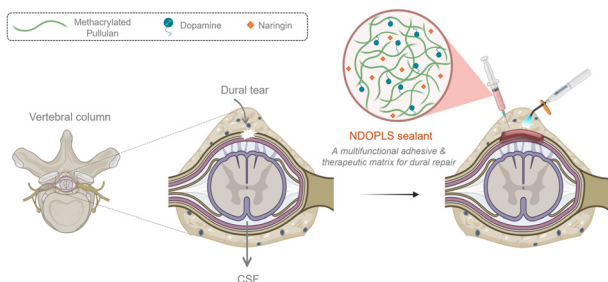
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Quaternary ammonium-functionalized carbon nanotubes/alginate nanocomposite hydrogels support myoblast growth and differentiation

Ludovica Ceroni, Tianqi Feng, Laura Calvillo, Stefano Casalini, Patrick Van Rijn* and Enzo Menna*

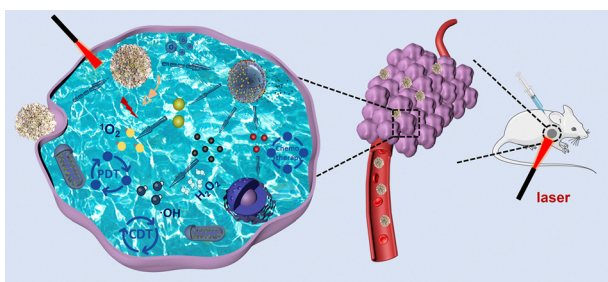
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Light-responsive pullulan-based dural adhesive with enhanced anti-fibrotic properties, *in vitro*

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A TME-responsive oxygen-self-supplying hybridized polymersome for synergistic triple-modal therapy and precision theranostics in hypoxic tumors

Zhe Tang, Wanru Luo, Mengmeng Xu, Yuan Liu, Qianqian Yu* and LinGe Wang*

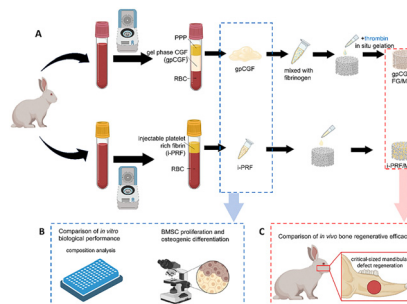


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Construction and evaluation of platelet concentrate/mesoporous bioactive glass composite scaffolds for bone repair: injectable platelet-rich fibrin (i-PRF) vs. concentrated growth factors (CGF)

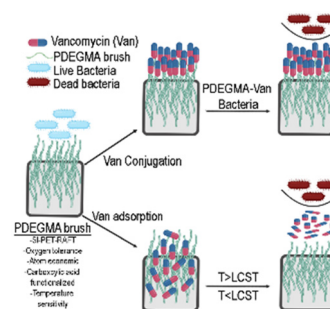
Yuanyuan Guo, Zhizheng Li, Mengran Ma, Lingqiang Meng* and Dan Lin*



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Antibacterial abilities of Vancomycin interactions in PDEGMA brushes fabricated by interface-mediated PET-RAFT polymerization on implant surfaces

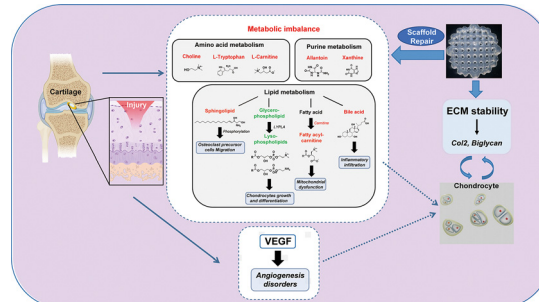
Ayla Abbaslı, Kübra Erkan Türkmen, Dilek Cimen Eren and Ertan Yildirim*



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Astragalus polysaccharide-containing 3D-printed scaffolds promote cartilage regeneration by correcting metabolic disorders and promoting cellular matrix remodeling

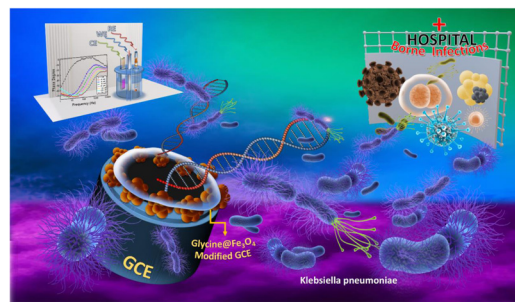
Weibin Du,* Zhenwei Wang, Wenxiang Zeng, Huahui Hu, Yanghua Tang, Guoping Cao, Gang Qu and Rongliang Chen*



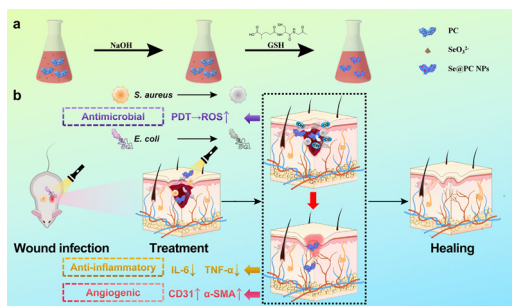
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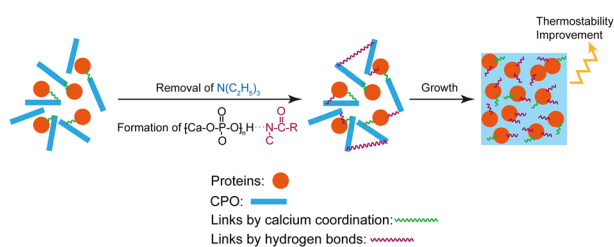
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Phycocyanin functionalized selenium nanoparticles for type I photodynamic antibacterial therapy and wound healing

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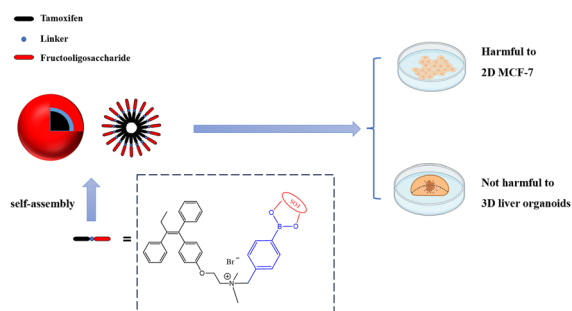
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Biomimetic mineralization with enhanced hydrogen-bond interactions for protein stabilization

Yihao Cui, Shuling Tang, Tianren Liu, Chen Luo and Xiaoyu Wang*

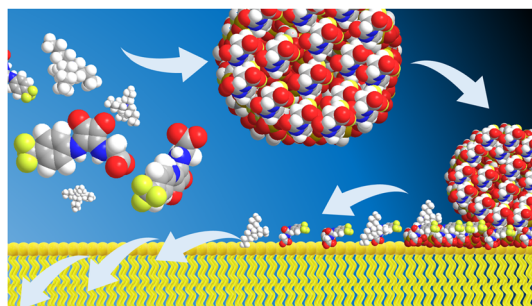
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Efficacy and hepatotoxicity of tamoxifen-loaded fructose-based nanodrug for breast cancer treatment

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