

Journal of Materials Chemistry B

Materials for biology and medicine

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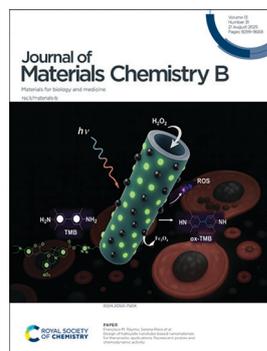
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See Nidhi Pandey and Jayesh Bellare, pp. 9392–9406. Image reproduced by permission of Nidhi Pandey and Jayesh Bellare from *J. Mater. Chem. B*, 2025, 13, 9392.



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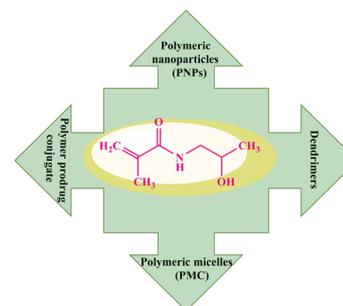
See Francisco M. Raymo, Serena Riela *et al.*, pp. 9407–9417. Image reproduced by permission of Serena Riela from *J. Mater. Chem. B*, 2025, 13, 9407.

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HPMA nanomedicine: targeting cancer with precision

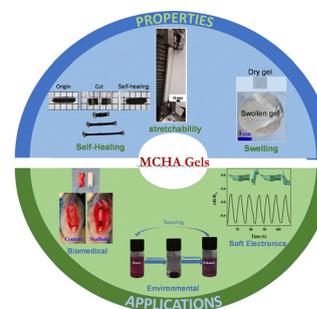
Sarita Rani, Vinay Kumar, Sofiya Tarannum and Umesh Gupta*



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Pooria Rahmani,* Akbar Shojaei,* Mohammadreza Sahabi, Mohammad Akbarizadeh, Mani Mahmoodi and Aref Zarghanishiraz



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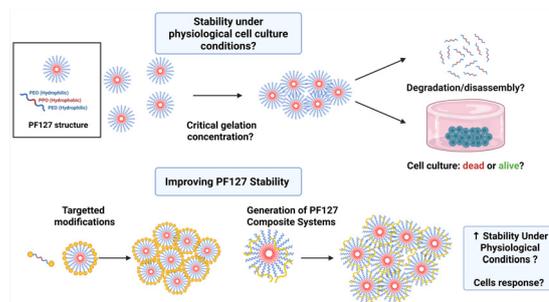


REVIEWS

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Thermoresponsive polymers for cell support: poloxamers as a case study of promise and challenge

Shane Clerkin, Krutika Singh, Danielle Winning, Ivan Krupa, John Crean, Dermot F. Brougham* and Jacek K. Wychowaniec*

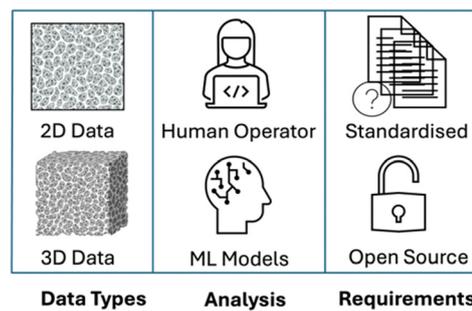


PERSPECTIVE

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Automated analysis of pore structures in biomaterials

Nicola Rossberg, Simon Corrie, Lisbeth Grøndahl and Imanda Jayawardena*

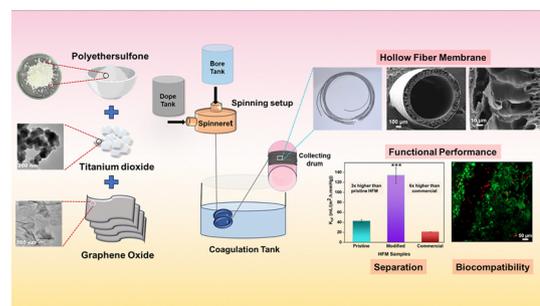


PAPERS

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Titanium dioxide/graphene oxide blending into polyethersulfone hollow fiber membranes improves biocompatibility and middle molecular weight separation for bioartificial kidney and hemodialysis applications

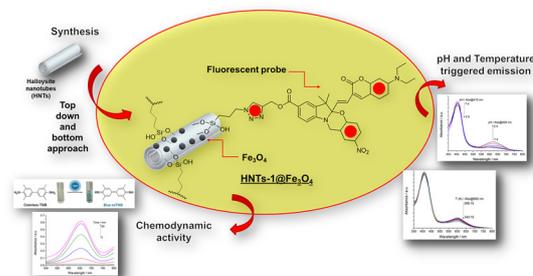
Nidhi Pandey and Jayesh Bellare*



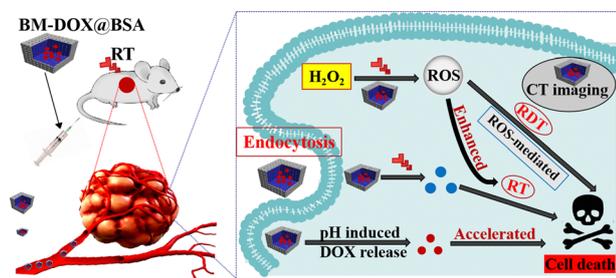
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Design of halloysite nanotube-based nanomaterials for theranostic applications: fluorescent probes and chemodynamic activity

Marina Massaro, Federica Leone, Francisco M. Raymo,* Raquel de Melo Barbosa, Rita Sánchez-Espejo, César Viseras, Renato Noto and Serena Riela*



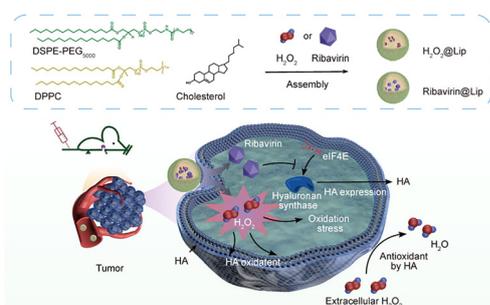
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pH-Responsive bimetallic MOF nanoparticles enable triple-synergistic radiosensitization for enhanced radiotherapy

Qijun Du, Guohua Wu, Ao Xie, Di Wu, Wenqi Hu, Qinrui Lu, Jie Liu, Jiashu Wang, Youlong Yang, Bangchuan Hu,* Haijie Hu* and Shuqi Wang*

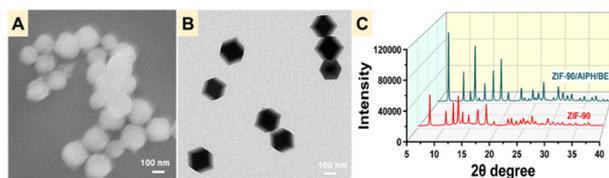
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Impairing antioxidant protection by diminishing hyaluronic acid using nanoliposomes for tumor therapy

Hegang Lu, Yunjian Yu, Shengke Zhao, Youtao Xin, Hongyu Liu, Qinghua Feng, Mahmoud Elsabagy and Hui Gao*

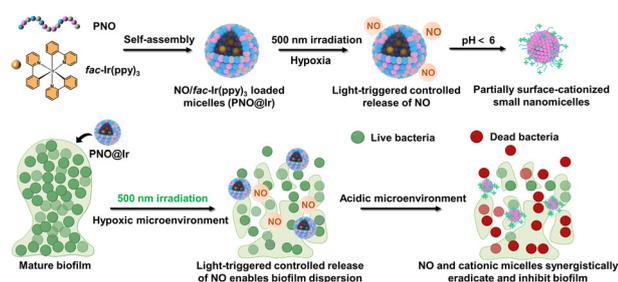
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Lung-targeted feedback regulation of the mitochondrial ATP synthesis pathway for orthotopic tumor suppression

Zhou Jiang, Songlan Pan, Jianhua Chen, Huihuang Yi, Yingfeng Li, Yi Qing, Erhu Xiong* and Zhen Zou*

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Light-mediated activation of nitric oxide and antibacterial polymers for anti-biofilm applications

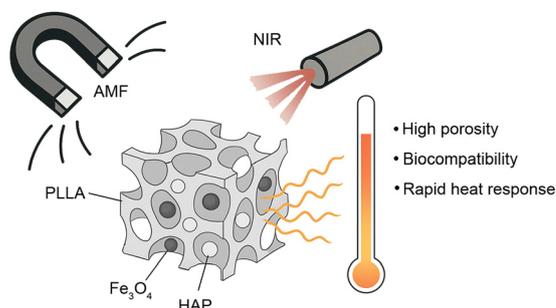
Siyuan Luo, Zuotao Zhou, Yu Jin, Haochuan Ding, Faxing Jiang* and Zhiqiang Shen*



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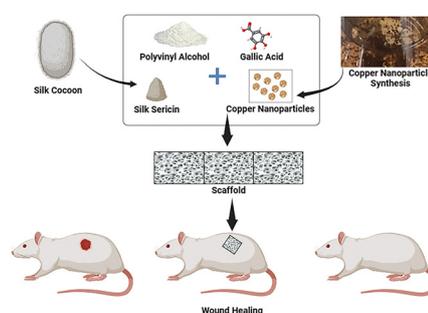
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SSP–CG scaffolds: a synergistic approach to enhance wound healing and tissue repair

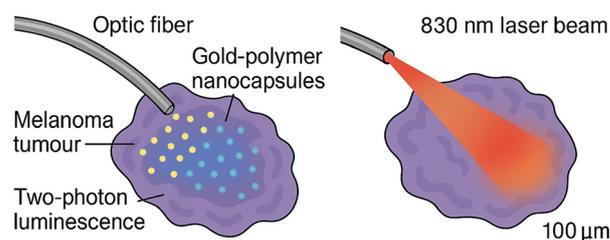
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Two photon-responsive gold nanocapsules enable targeted photothermal hyperthermia of chemoresistant melanoma: injection-route-dependent efficacy and renal evidence of fragment clearance

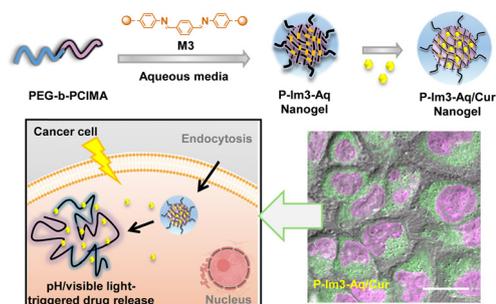
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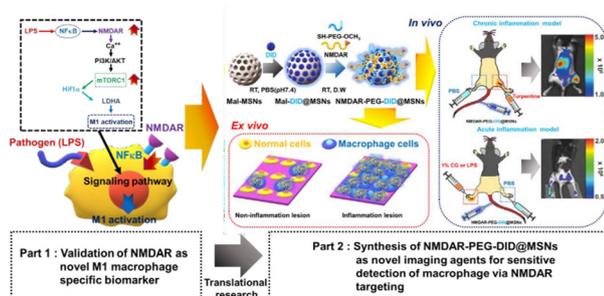
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Development of dual acid–visible light-degradable core-crosslinked nanogels with extended conjugate aromatic imines for enhanced drug delivery

Kadambari Bairagi, Mehdi Shamekhi, Ioanna Tountas, Natasha Letourneau, Gilles H. Peslherbe, Alisa Piekny and Jung Kwon Oh*



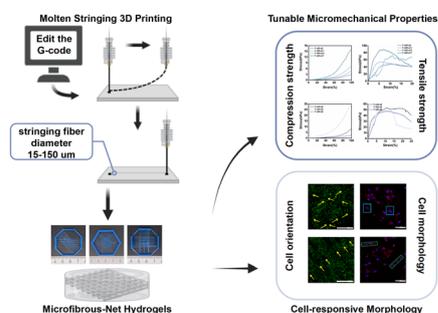
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N-Methyl-D-aspartate receptors as novel M1 macrophage-specific biomedical imaging nanoplatform agents: feasibility of targeted imaging in an inflammatory mice model

Sang Bong Lee, Hui-Jeon Jeon, Dinesh Kumar, Hoon Hyun* and Yong Hyun Jeon*

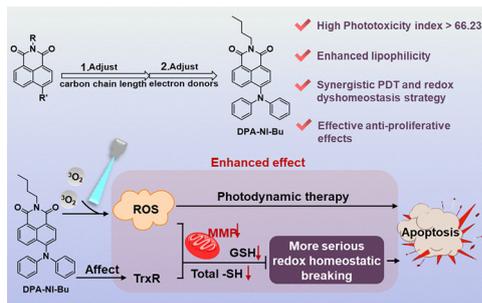
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Molten stringing 3D printed microfibrillar net-integrated mineralized hydrogels with tunable micromechanical and cell-responsive properties

Dongxuan Li, Fengxiong Luo, Yu Yang, Ziqi Zhao, Ruiqi Mao, Yawen Huang, Yafang Chen,* Kefeng Wang,* Yujiang Fan and Xingdong Zhang

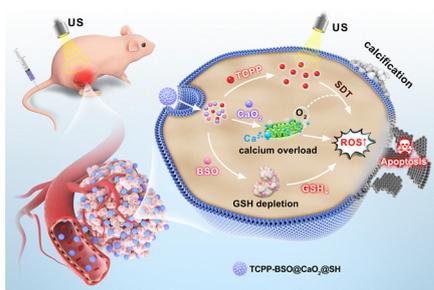
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Boosting PDT with DPA-NI-Bu: high photocytotoxicity through redox homeostasis perturbation

Jingwen Tu, Zhiyuan Wang, Mengzhao Zhang, Suntao Shi, Miao Zhong, Zhengyu Ma, Haijuan Zhang, Jiang Wu, Zhongtian Bai and Baoxin Zhang*

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A versatile nanoplatform for enhanced sonodynamic therapy via hypoxia alleviation, glutathione depletion, and calcium overload

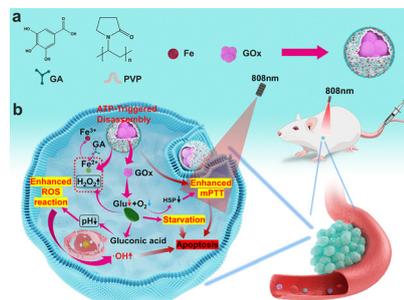
Min Zhang, Xuehui Wang, Chaocai Zhang, Dandan Sun, Zhuole Wu, Dayan Yang, Pingyang Zhang* and Xiangxiang Jing*



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An ATP-activated self-cascade nanoplatfom for ROS/mPTT/starvation tri-therapy through tumor microenvironment remodeling

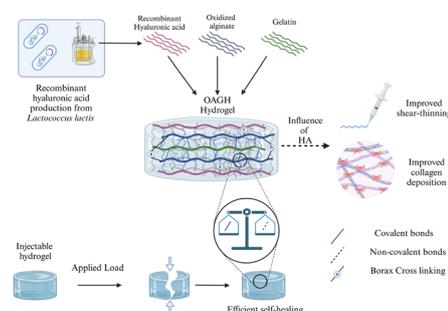
Jing Yu,* Hao Gao, Huayu Zhang, Shenglei Che and Dan Su*



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Recombinant hyaluronic acid-incorporated self-healing injectable hydrogels for cartilage tissue engineering: a case study on effects of molecular weight

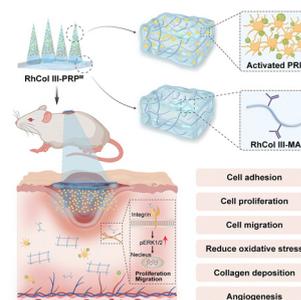
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Recombinant human collagen microneedle patches loaded with PRP for diabetic wound treatment

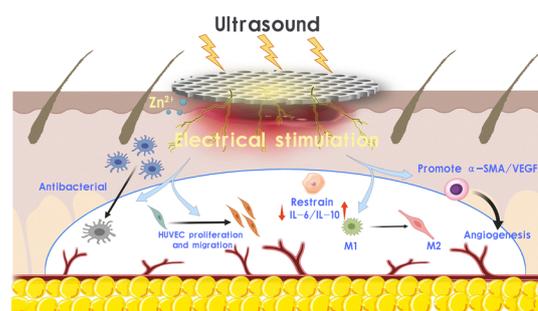
Xinyue Wang, Xinyue Zhang, Yihan Zhao, Xue Zhan, Chen Hu, Haihang Li, Xiaoju Fan, Jie Liang, Yafang Chen* and Yujiang Fan



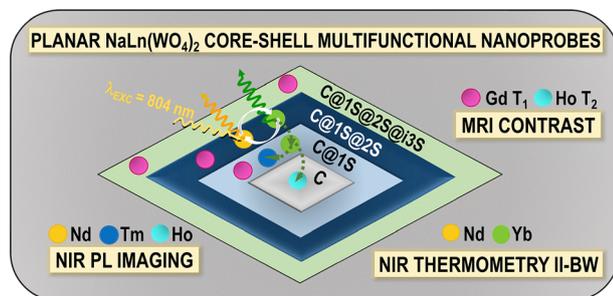
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A multifunctional piezoelectric ZIF-8/PVDF fiber dressing for managing infected wound healing

Mengnan Chai, Shengqian Wang, Jiangshan Liu, Yufan Li, Yulun Liu, Yubao Li and Jidong Li*



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Biocompatible $\text{NaLn}(\text{WO}_4)_2$ core-shell nanoplatelets for multimodal MRI contrast, NIR imaging, and high sensitivity infrared luminescent ratiometric thermometry

Carlos Alarcón-Fernández, Carlos Zaldo, Manuel Bañobre-López, Juan Gallo, Pedro Ramos-Cabrer, Sandra Plaza-García, Gonzalo Villaverde, Alejandro Ruperti and Concepción Cascales*

