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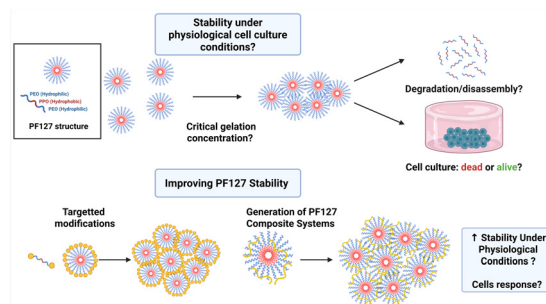


## REVIEWS

9351

### 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\*

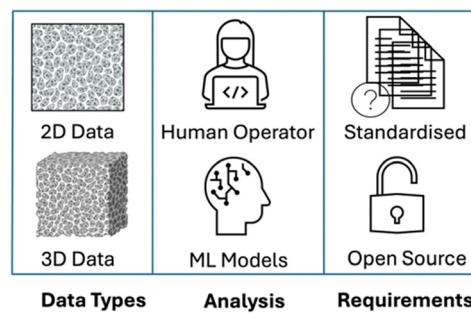


## PERSPECTIVE

9377

### Automated analysis of pore structures in biomaterials

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

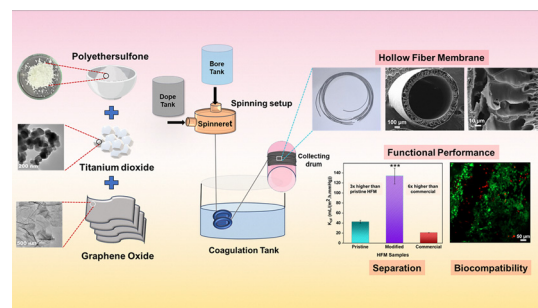


## PAPERS

9392

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

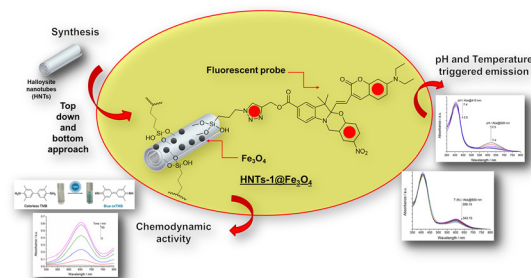
Nidhi Pandey and Jayesh Bellare\*



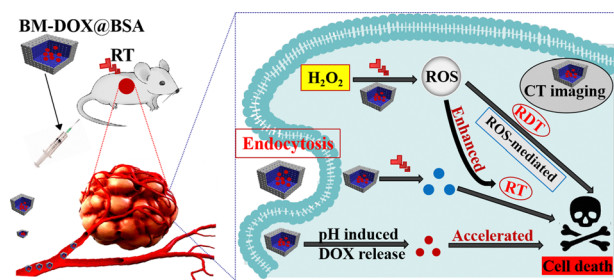
9407

### 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\*



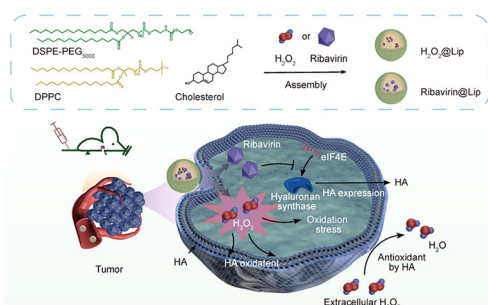
9418



### 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\*

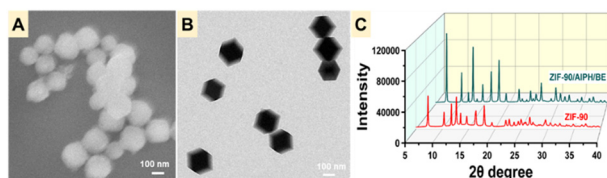
9430



### 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 Elsabahy and Hui Gao\*

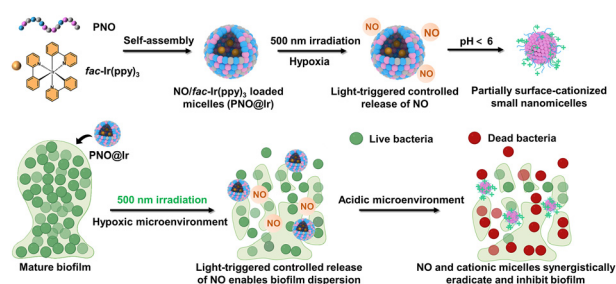
9442



### 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\*

9452



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

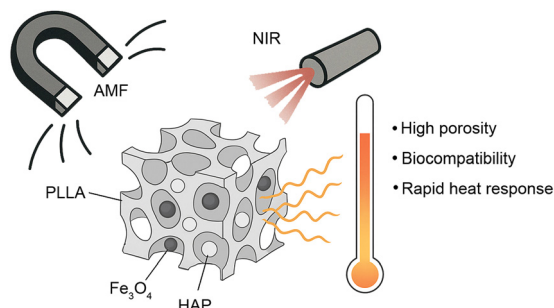
Siyuan Luo, Zuotao Zhou, Yu Jin, Haochuan Ding, Faxing Jiang\* and Zhiqiang Shen\*



9465

### Triggered by light and magnetism: smart foam PLLA/HAP/Fe<sub>3</sub>O<sub>4</sub> scaffolds for heat-controlled biomedical applications

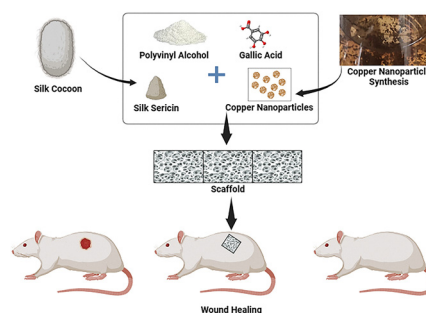
Emilia Zachanowicz,\* Anna Tomaszewska, Magdalena Kulpa-Greszta, Piotr Krzemiński, Jean-Marie Nedelec, Dominika Zákutná, Štefan Hricov, Aleksandra Nurzyńska, Anna Belcarz-Romaniuk and Robert Pązik\*



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

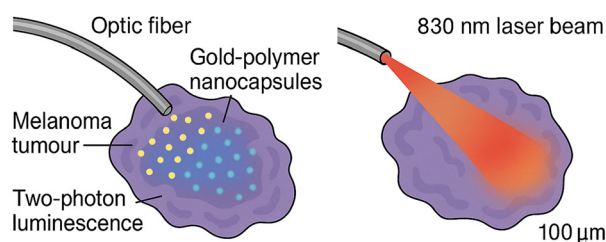
Tasduq Manzoor, Lateef Ahmad Dar, Yaawar Bashir Mir, Showkat Ahmad Shah, Sheikh F. Ahmad, Meena Godha and Syed Mudasar Ahmad\*



9498

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

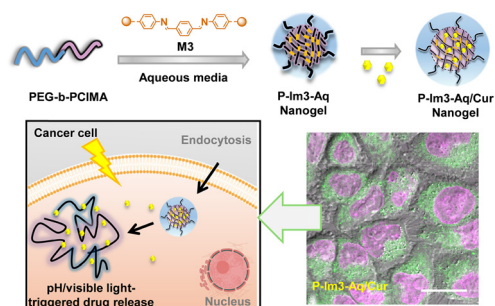
Paula Zamora-Pérez, Qiutian She, Harrison D. Santos, Jose J. Conesa, M. Carmen Iglesias de la Cruz, Nuria Fernández, Daniel Jaque and Pilar Rivera-Gil\*



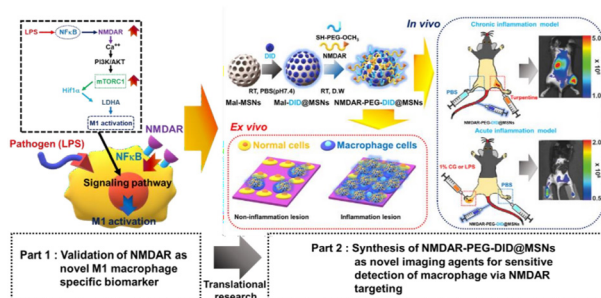
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### Development of dual acid–visible light-degradable core-crosslinked nanogels with extended conjugate aromatic imines for enhanced drug delivery

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



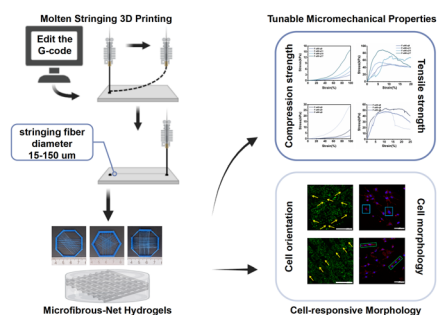
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## N-Methyl-D-aspartate receptors as novel M1 macrophage-specific biomedical imaging nanoplatform agents: feasibility of targeted imaging in an inflammatory mice model

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

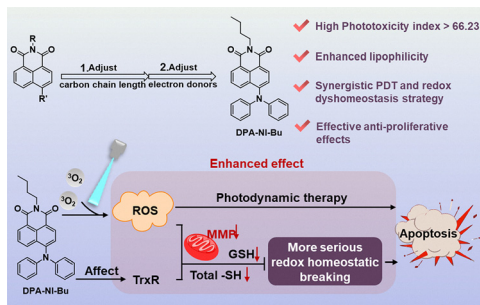
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## Molten stringing 3D printed microfibrillar net-integrated mineralized hydrogels with tunable micromechanical and cell-responsive properties

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

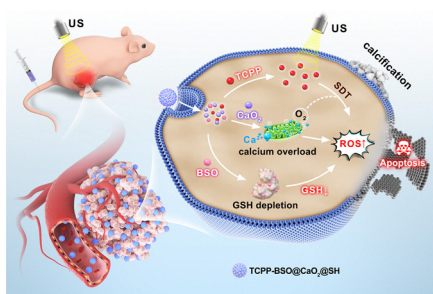
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## Boosting PDT with DPA-NI-Bu: high photocytotoxicity through redox homeostasis perturbation

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

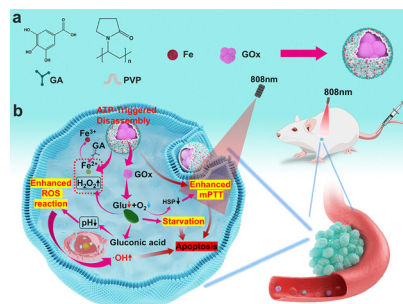
Min Zhang, Xuehui Wang, Chaocai Zhang, Dandan Sun, Zhuole Wu, Dayan Yang, Pingyang Zhang\* and Xiangxiang Jing\*



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

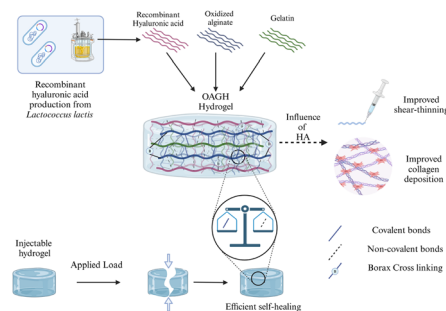
Jing Yu,\* Hao Gao, Huayu Zhang, Shenglei Che and Dan Su\*



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

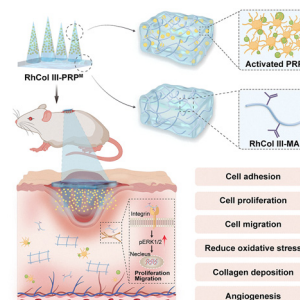
Manoj Kumar Sundaram, Chelladurai Karthikeyan Balavigneswaran,\* Iniyan Saravanakumar, Guhan Jayaraman and Vignesh Muthuvijayan\*



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

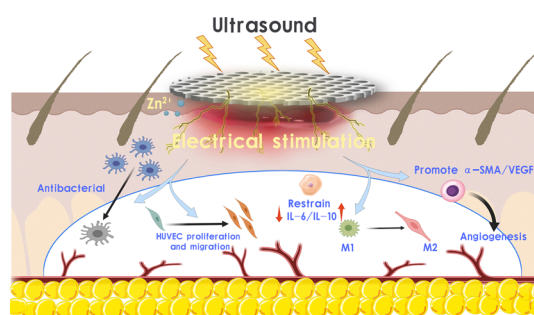
Xinyue Wang, Xinyue Zhang, Yihan Zhao, Xue Zhan, Chen Hu, Haihang Li, Xiaoju Fan, Jie Liang, Yafang Chen\* and Yujiang Fan



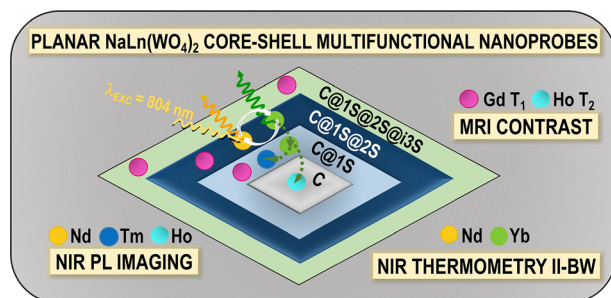
9625

### 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\*

