

Journal of Materials Chemistry B

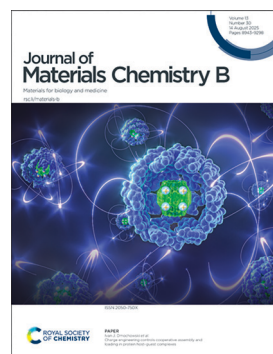
Materials for biology and medicine

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ISSN 2050-750X CODEN JMCBDV 13(30) 8943–9298 (2025)



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See Ivan J. Dmochowski *et al.*, pp. 9051–9064. Image reproduced by permission of Zhiheng Wang, Ivan Dmochowski from *J. Mater. Chem. B*, 2025, 13, 9051.



Inside cover

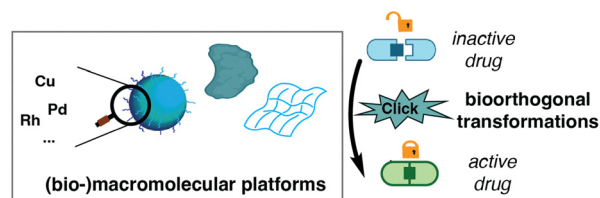
See Kevin J. Haworth *et al.*, pp. 9065–9080. Image reproduced by permission of University of Cincinnati from *J. Mater. Chem. B*, 2025, 13, 9065.

REVIEWS

8953

From simple delivery to multimodal systems: the critical role of macromolecular platforms in bioorthogonal drug synthesis

Tieze van den Elsen and Kevin Neumann*

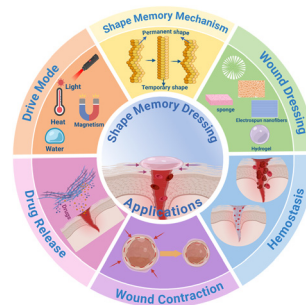


✓ biocompatibility ✓ catalyst activity ✓ targeting ✓ multimodality

8975

Insights into advanced dressings based on shape memory materials for wound management

Tianran Song, Kun Li,* Jingxi Wang, Xuemei Sun, Shuang Li, Chaojuan Yang and Ping Li*



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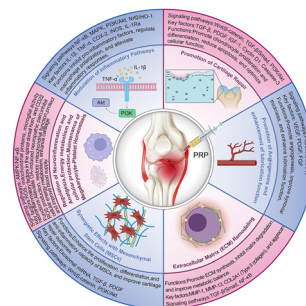
Fundamental questions
Elemental answers

REVIEWS

9001

Recent advances in platelet-rich plasma therapy for osteoarthritis: mechanisms and clinical efficacy

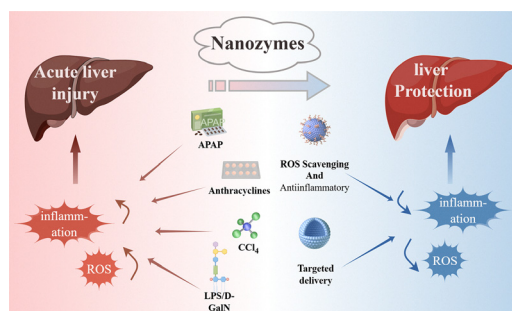
Liang Cai, Jiali Chen, Qiong Yuan, Weihua Zhuang, Gang Wang, Xuemei Xu,* Yongchao Yao* and Wenchuang (Walter) Hu*



9023

Nanozymes: new strategy for the management drug-induced acute liver injury

Minrui Kan, Yanan Wang, Nan Cheng, Kunlun Huang and Xiaoyun He*

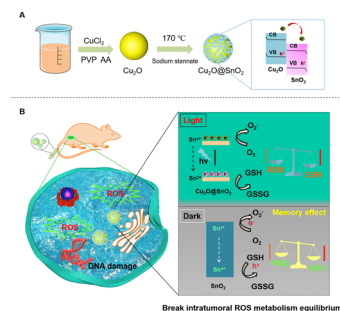


COMMUNICATION

9043

Near infrared light driven nanocatalyst with hole-mediated GSH-depletion for augmented memory therapy

Zhiming Deng, Jialian Li, Chunqian Hu,* Yiyu Tang, Jun Zhong, Hanlin Wei,* Jiayou Tao* and Qi Zheng*

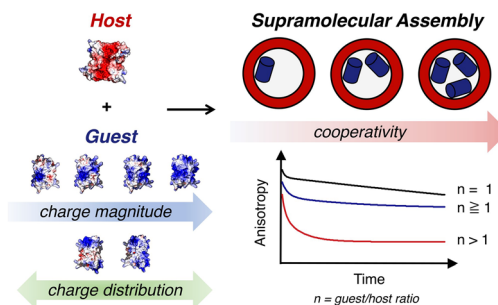


PAPERS

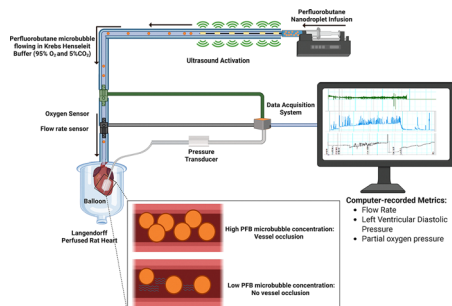
9051

Charge engineering controls cooperative assembly and loading in protein host–guest complexes

Zhiheng Wang, Dai-Bei Yang, Joshua A. Bulos, Rui Guo, Thomas Troxler, Sergei Vinogradov, Jeffery G. Saven and Ivan J. Dmochowski*



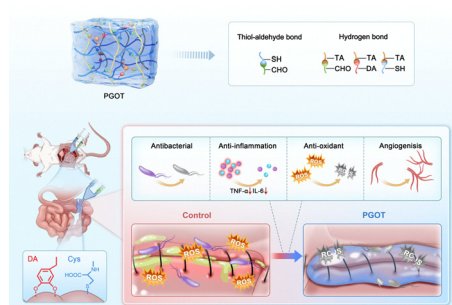
9065



Assessing the oxygen scavenging capacity and myocardial gas embolization risk of ultrasonically activated phase shift perfluorobutane droplets

Nour Al Rifai, Kateryna Stone, Bin Bo, Bin Zhang, Diviyashree Kasiviswanathan, Andrew N. Redington and Kevin J. Haworth*

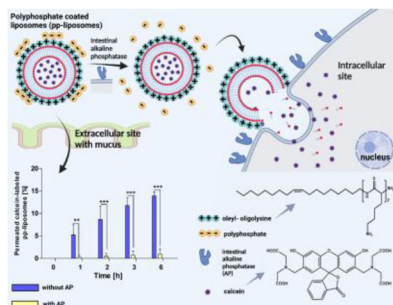
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Tissue-adhesive, antibacterial, and macrophage-reprogramming hydrogel for sealing colorectal anastomotic leakage and promoting healing

Yuzhou Zhu, Zhongwu Bei, Tianying Luo, Ziqiang Wang and Zhiyong Qian*

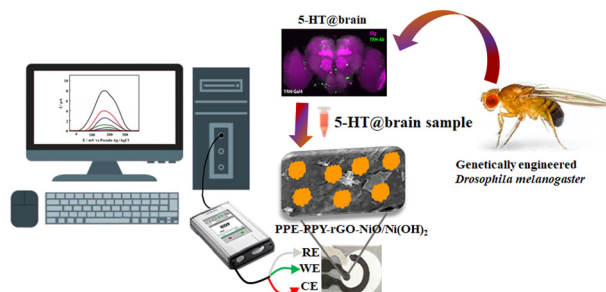
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Addressing the polycation dilemma in drug delivery: charge-converting liposomes

Martyna Truszkowska, Ahmad Saleh, Melanie Lena Ebert, Gergely Kali and Andreas Bernkop-Schnürch*

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Conductive nano nickel oxide/hydroxide paper electrochemical sensor for serotonin detection in genetically engineered *Drosophila*

Sharmila Prashanth, Manvitha Kadandelu, Shamprasad Varija Raghu, K. Sudhakara Prasad* and Airody Vasudeva Adhikari*

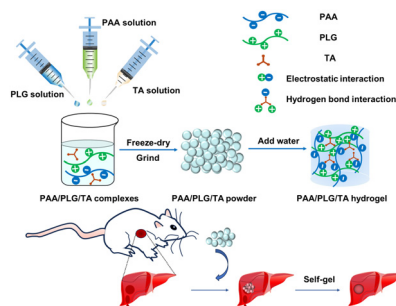


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A self-gelling hemostatic powder driven by hydrogen bonding and electrostatic interactions with antibacterial and antioxidant properties

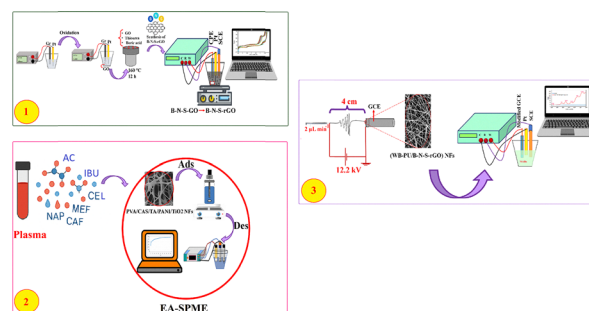
Cheng Cao, Qi Yang, Liming Chen, Xiuqiang Li, Jiazhao Gong, Lei Liang, Chaojie Yu, Bingyan Guo, Xueyu Wang, Zhongming Zhao, Yuwei Qiu, Fanglian Yao,* Junjie Li* and Hong Zhang*



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Concurrent analysis of six NSAIDs in human plasma using polyurethane/B–N–S-co-doped rGO nanofiber-modified glassy carbon electrode followed by EA-SPME

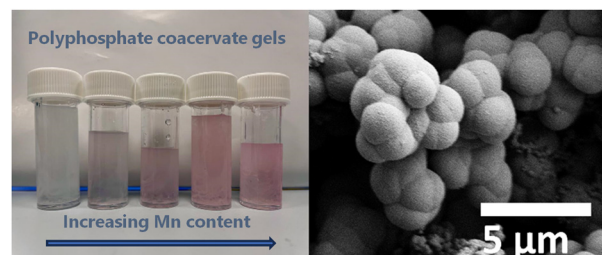
Fatemeh Nejabati and Homeira Ebrahimzadeh*



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Polyphosphate coacervate gels for manufacturing of manganese loaded glass powders and fibres: structural, cytocompatibility and surface bioactivity study

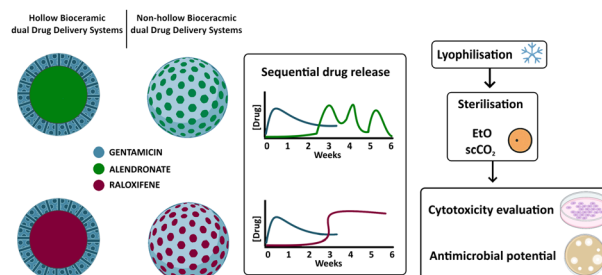
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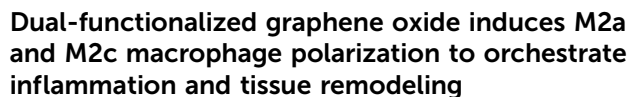


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Dual and sequential drug delivery systems with antimicrobial and bone regenerative therapeutic effects

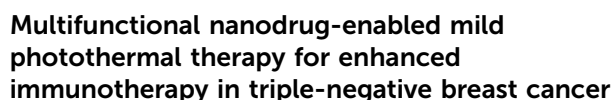
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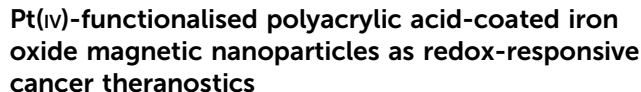
Hui Li, Hefeng Yang, Bo Ma, Jia Qiao, Fanfan Chen,
Pinwen Wang, Riyue Yu,* Jingjing Sun* and
Yuanwei Chen*

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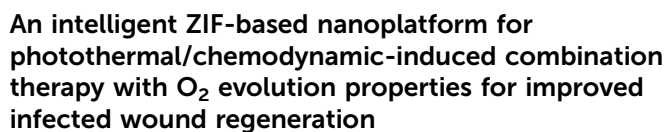
Xinyue Du, Ying Zhang, Bingxin Gu, Ziyi Yang,
Xiaoping Xu, Haibao Peng,* Shaoli Song* and
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Beatriz Brito, Thomas W. Price, Cátia V. Rocha,
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Juan Gallo*

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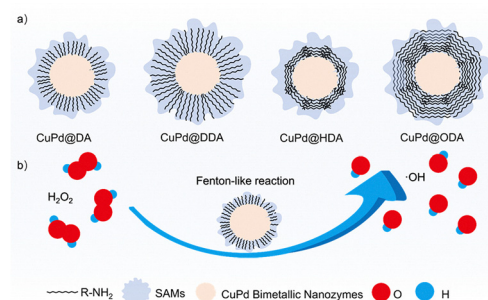
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Ali Kalantari-Hesari, Satar Yousefiasl, Lidia Maeso,
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Mohammad Seyedhamzeh, Faezeh Almasi and
Aziz Maleki*

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Enhancing Fenton-like biocatalysis of CuPd bimetallic nanozymes by alkylamine ligand self-assembled monolayers

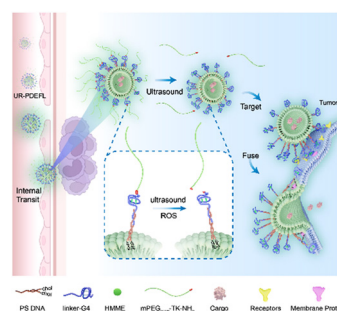
Fangming Zhang, Jingxia Xu, Zhuyuan Peng, Guofeng Li, Lingyun Zhao, Wensheng Xie* and Xing Wang*



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Phosphorothioated DNA engineered fusion liposomes for ultrasound-responsive targeted intracellular protein delivery

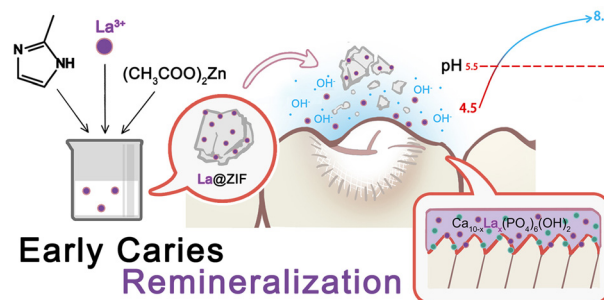
Danchu Gong, Dajiang Du* and Di Li*



9260

Lanthanum-loaded ZIF nanomaterials for caries prevention

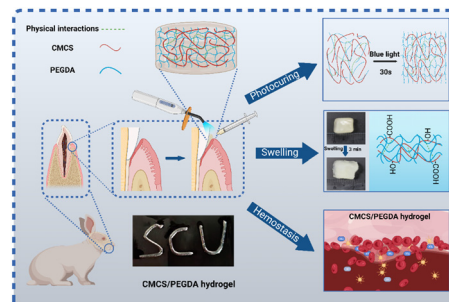
Han Xiao, Yuping Qian, Lijun Zhao, Yiman Tang, Yuan Pan, Yunzi Long, Shihan Li, Yukun Chen, Jiale Sun, Chao Yuan,* Ludan Zhang* and Wenshu Ge*



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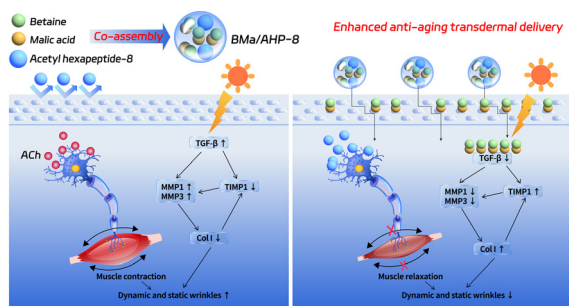
CMCS/PEGDA-based photoresponsive hydrogel with high efficiency for gingival retraction and rapid hemostasis

Jiaxin Wu, Yi Liang, Ruyi Li, Mingxin Qiao, Xibo Pei, Xue Yuan, Qianbing Wan* and Jian Wang*



PAPERS

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Dual-function supramolecular system of α -hydroxy acid-based ionic liquids and peptides for enhanced anti-aging transdermal delivery

Zhenyuan Wang, Lu Zhang, Biao Wang, Mi Wang* and Jiaheng Zhang*

CORRECTION

9294

Correction: Charge engineering controls cooperative assembly and loading in protein host–guest complexes

Zhiheng Wang, Dai-Bei Yang, Joshua A. Bulos, Rui Guo, Thomas Troxler, Sergei Vinogradov, Jeffery G. Saven and Ivan J. Dmochowski*

