

# Biomaterials Science

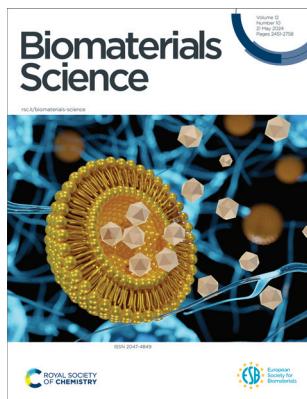
An international high impact journal exploring the underlying science behind the function, interactions and design of biomaterials

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### Cover

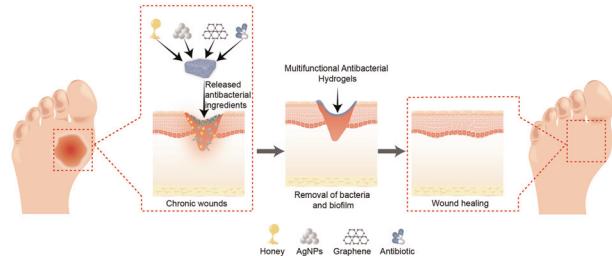
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### Multifunctional antibacterial hydrogels for chronic wound management

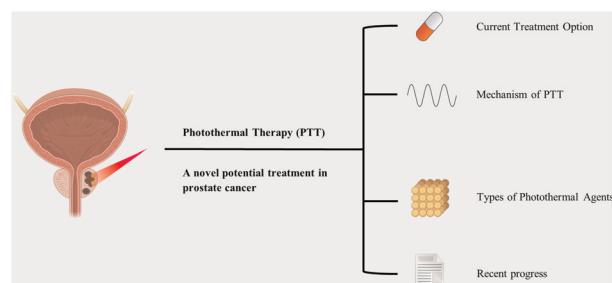
Yungang Hu, Lu Yu, Qiang Dai, Xiaohua Hu and Yuming Shen\*



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### Photothermal therapy: a novel potential treatment for prostate cancer

Zirui Dong, Kaming Xue, Anushikha Verma, Jian Shi, Zhihao Wei, Xiaotian Xia,\* Keshan Wang\* and Xiaoping Zhang\*





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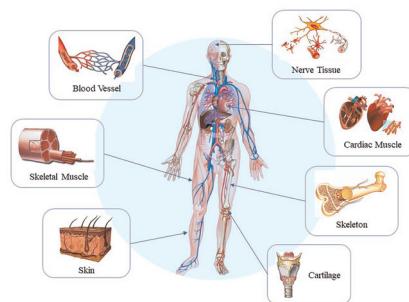


## REVIEWS

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## Janus hydrogels: merging boundaries in tissue engineering for enhanced biomaterials and regenerative therapies

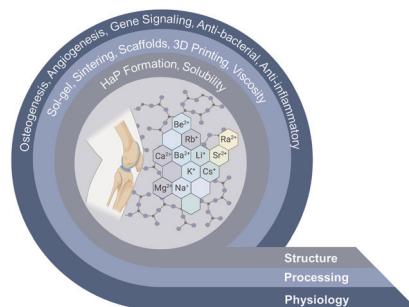
Yingxue Jiang, Chenhui Zhu, Xiaoxuan Ma\* and Dadi Fan\*



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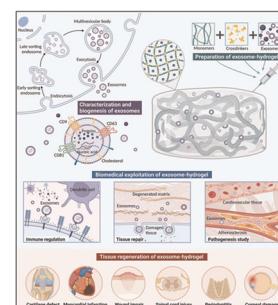
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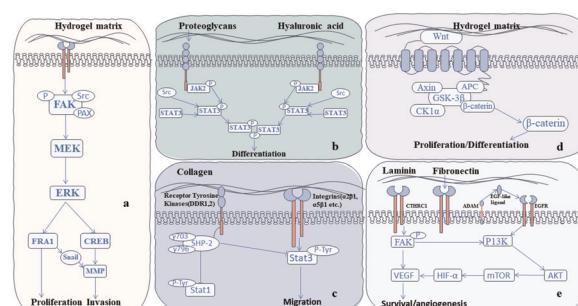
Ziba Zakeri, Morteza Heiderzadeh, Azra Kocaarslan, Ecem Metin, Seyed Nasir Hosseini Karimi, Sepideh Saghati, Atay Vural, Göktuğ Akyoldaş, Kemal Baysal, Yusuf Yağcı, Yasemin Gürsoy-Özdemir, Savaş Taşoğlu, Reza Rahbarghazi and Emel Sokullu\*



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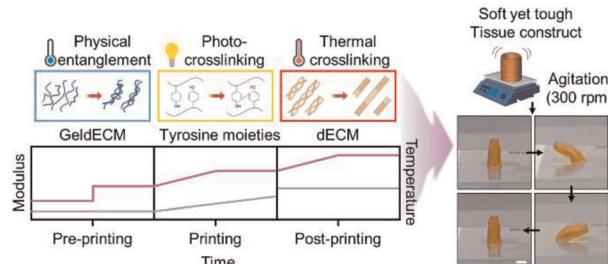
## Applications of hydrogels in tissue-engineered repairing of temporomandibular joint diseases

Xuan Wang, Fushuang Liu, Tianyi Wang, Yikai He and Yongwen Guo\*



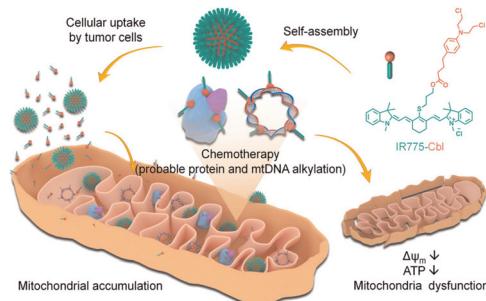
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**Tissue-specific gelatin bioink as a rheology modifier for high printability and adjustable tissue properties**

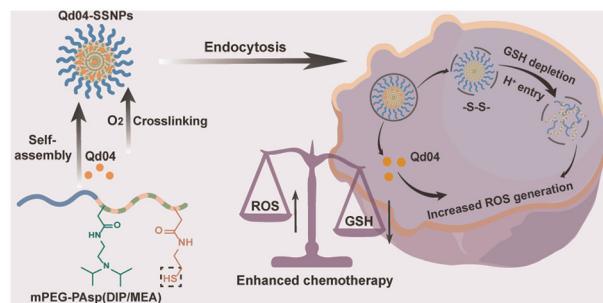
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**A mitochondria-targeting heptamethine cyanine-chlorambucil formulated polymeric nanoparticle to potentiate native tumor chemotherapeutic efficacy**

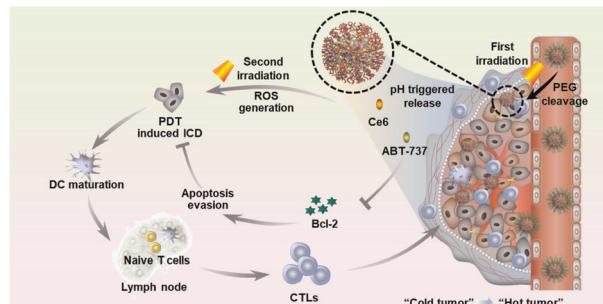
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Jing Huang, Xingliang Liu, Minzhao Lin, Zecong Xiao\* and Xintao Shuai

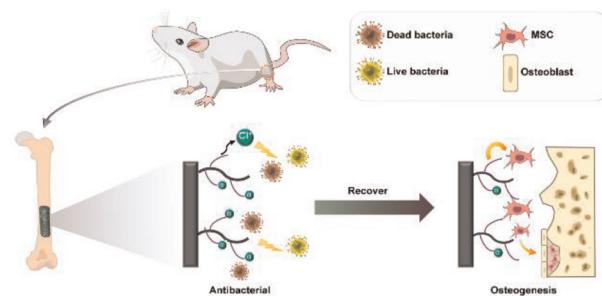


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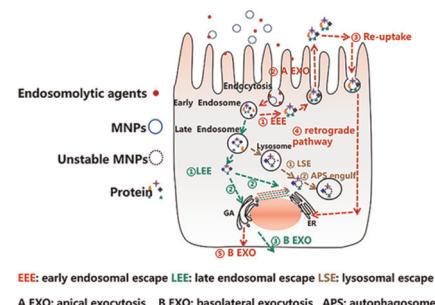
Hang Ren, Peng Wang, Hanwen Huang, Junshen Huang, Yuheng Lu, Yanfeng Wu, Zhongyu Xie, Youchen Tang,\* Zhaopeng Cai\* and Huiyong Shen\*



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## Escape sites from the endo-lysosomal trafficking route manipulate exocytosis of nanoparticles in polar epithelium

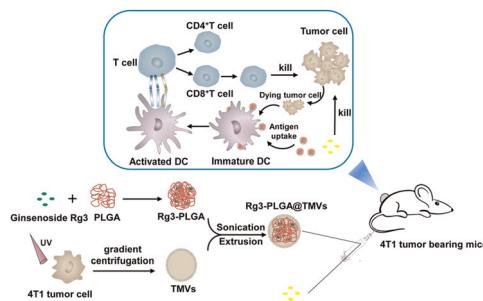
Lingling Wang, Yuting Li, Xi Liu, Liyun Xing, Ruinan Wu and Yuan Huang\*



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## Bioinspired ginsenoside Rg3 PLGA nanoparticles coated with tumor-derived microvesicles to improve chemotherapy efficacy and alleviate toxicity

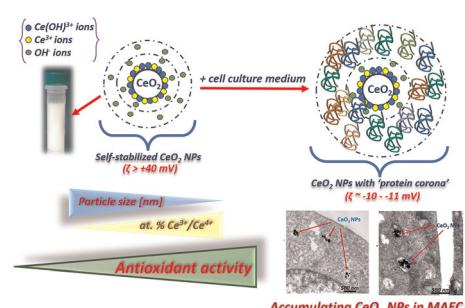
Shulei Zhang, Bo Zheng, Yiqi Wei, Yuhao Liu, Lan Yang, Yujiao Qiu, Jing Su and Mingfeng Qiu\*



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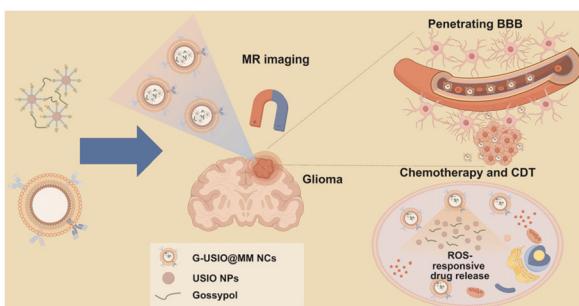
## Bioactivity of cerium dioxide nanoparticles as a function of size and surface features

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## PAPERS

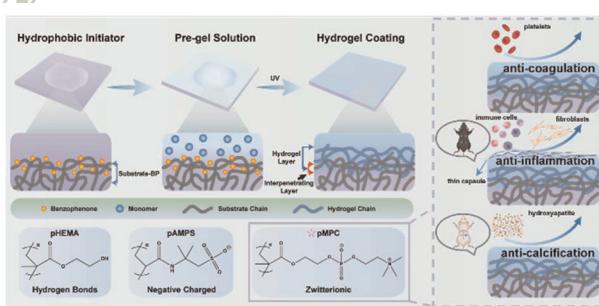
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### Macrophage membrane-camouflaged nanoclusters of ultrasmall iron oxide nanoparticles for precision glioma theranostics

Bin Zhang, Rui Yang, Hongwei Yu, Yamin Peng, Haoyu Huang, Meera Moydeen Abdul Hameed, Han Wang, Guixiang Zhang,\* Mohamed EL-Newehy, Mingwu Shen, Xiangyang Shi\* and Shaojun Peng\*

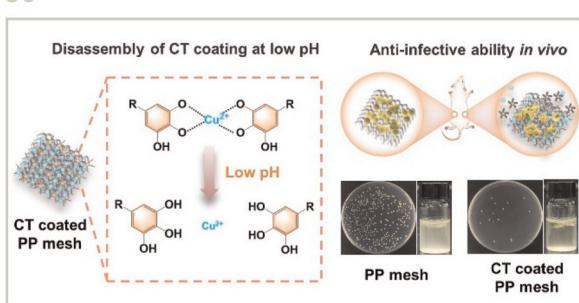
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### Comparison study of surface-initiated hydrogel coatings with distinct side-chains for improving biocompatibility of polymeric heart valves

Yiduo Chen, Yirong Guo, Xinyi Li, Yanchen Chen, Jiarong Wang, Honglin Qian, Jing Wang,\* Youxiang Wang, Xinyang Hu, Jian'an Wang and Jian Ji\*

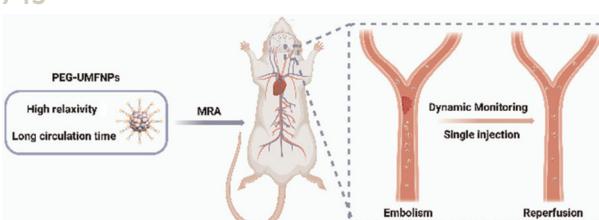
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### pH-Responsive antibacterial metal-phenolic network coating on hernia meshes

Rui Ding, Pandi Peng, Jingjing Huo, Kun Wang, Pengxiang Liu, Hanxue Wu, Likun Yan\* and Peng Li\*

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### Ultrasmall catechol-PEG-anchored ferrite nanoparticles for highly sensitive magnetic resonance angiography

Yanzhi Dong, Jiaoqiao Wang, Ting Zhou, Jinbing Pan, Xu Wang and Shao-Kai Sun\*



## CORRECTION

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**Correction: Hindering the unlimited proliferation of tumor cells synergizes with destroying tumor blood vessels for effective cancer treatment**

Ya Liu, Yajun Xu,\* Ying Wang, Jianlin Lv, Kun Wang and Zhaojun Tang\*

