

# Journal of Materials Chemistry B

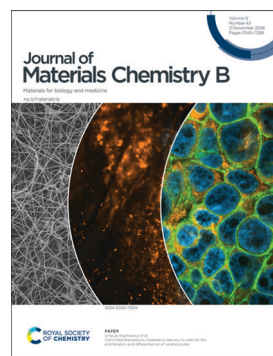
Materials for biology and medicine

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## IN THIS ISSUE

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### Cover

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### Inside cover

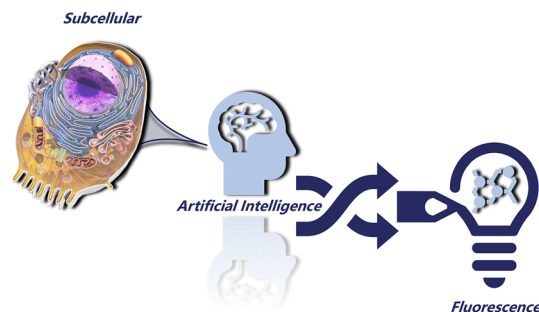
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## REVIEWS

11054

### AI-driven precision subcellular navigation with fluorescent probes

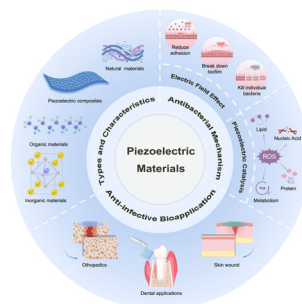
Yingli Zhu, Yanpeng Fang, Wenzhi Huang, Weiheng Zhang, Fei Chen, Jie Dong\* and Wenbin Zeng\*



11063

### Piezoelectric materials for anti-infective bioapplications

Chen Chen, Xin Yang, Yi Liu, Jia Jia, Yiping Li, Xiaohan Dai\* and Ousheng Liu



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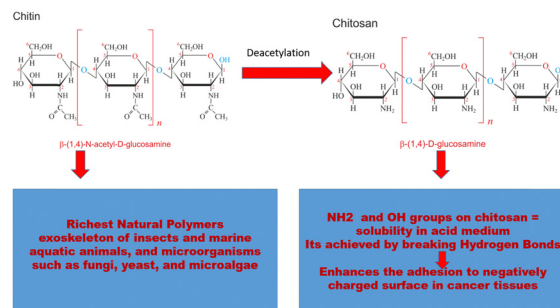
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## REVIEWS

11076

**Chitosan-functionalized nanobubbles for precision oncology: advances in targeted cancer therapeutics**

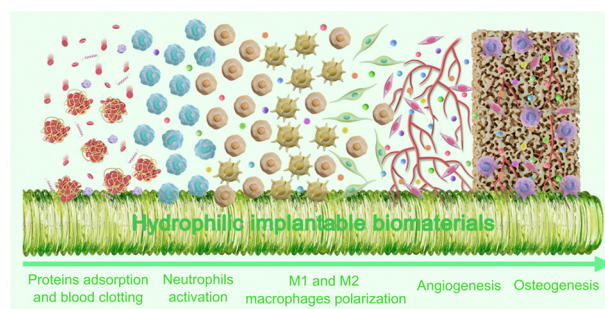
Vivek Pandey\* and Tejasvi Pandey



11089

**Advances in osteoimmunomodulation of biomaterials after intrabone implantation: focus on surface hydrophilicity**

Xinpeng Wei, Linshan Lei, Ling Luo, Ying Zhou, Zheng Zheng\* and Wenchuan Chen\*

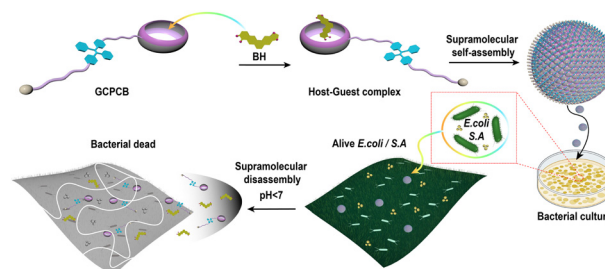


## COMMUNICATION

11105

**A guanidiniocarbonyl-pyrrole functionalized cucurbit[7]uril derivative as a cytomembrane disruptor for synergistic antibacterial therapy**

Ruixue Han, Kehan Du, Shengke Li, Minzan Zuo, Ponmani Jeyakkumar, Hao Jiang,\* Leyong Wang and Xiao-Yu Hu\*

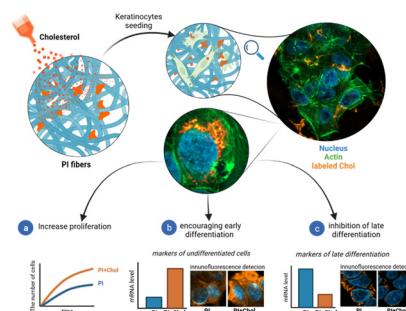


## PAPERS

11110

**Controlled therapeutic cholesterol delivery to cells for the proliferation and differentiation of keratinocytes**

Krzysztof Berniak, Ahmadreza Moradi, Agata Lichawska-Cieslar, Weronika Szukala, Jolanta Jura and Urszula Stachewicz\*

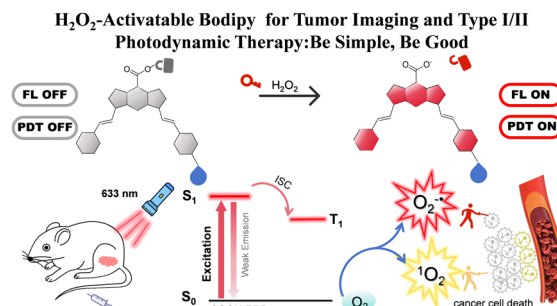




11165

### A simple hydrogen peroxide-activatable Bodipy for tumor imaging and type I/II photodynamic therapy

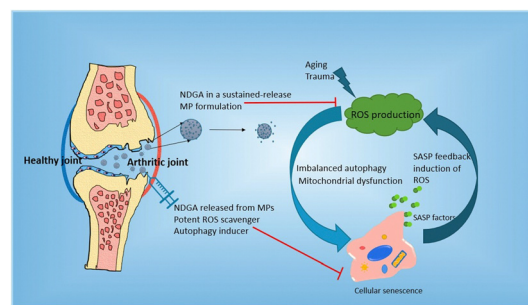
Fangqing Ge, Yujie Sun, Yu Wang, Dan Yu, Zhijia Wang,\*  
Fabiao Yu,\* Bingran Yu\* and Hongbing Fu



11172

### Nordihydroguaiaretic acid microparticles are effective in the treatment of osteoarthritis

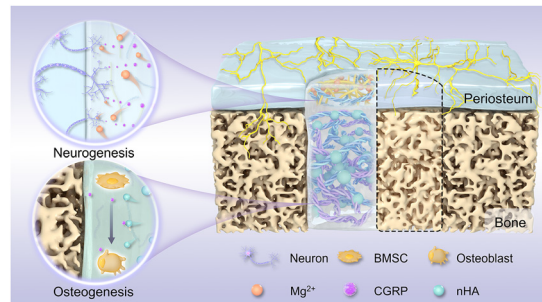
Kaamini M. Dhanabalan, Bhagyashree Padhan,  
Ameya A. Dravid, Smriti Agarwal, Nicholas M. Pancheri,  
Angela Lin, Nick J. Willet, Ashok Kumar Padmanabhan  
and Rachit Agarwal\*



11187

### A bilayer hydrogel mimicking the periosteum-bone structure for innervated bone regeneration

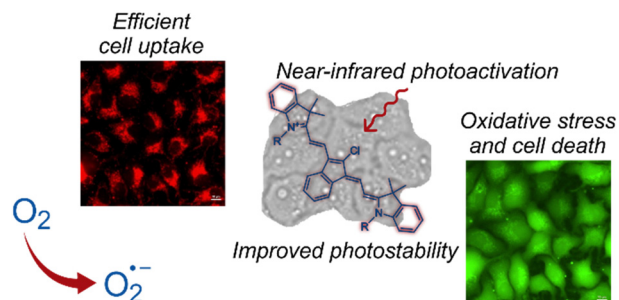
Wenhui Lyu, Yuyue Zhang, Shaopei Ding, Xiang Li,  
Tong Sun, Jun Luo, Jian Wang, Jianshu Li and Lei Li\*



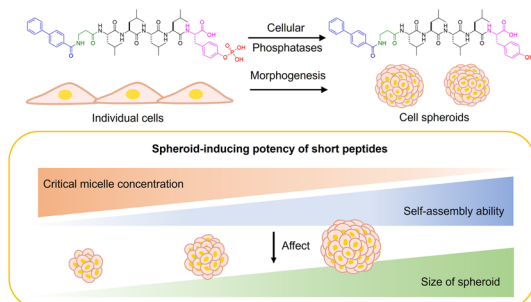
11202

### A near-infrared superoxide generator based on a biocompatible indene-bearing heptamethine cyanine dye

Nikita Bel'ko, Anna Mal'tanova, Anastasiya Bahdanava,  
Anatol Lugovski, Sviatlana Fatykhava, Polina Shabunya,  
Adam Smaliakou, Sergey Poznyak, Tatsiana Kulahava and  
Michael Samtsov\*



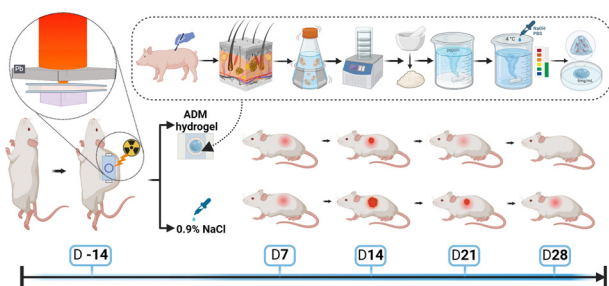
11210



## Enzymatic self-assembly of short peptides for cell spheroid formation

Jiaqi Guo, Weiyi Tan and Bing Xu\*

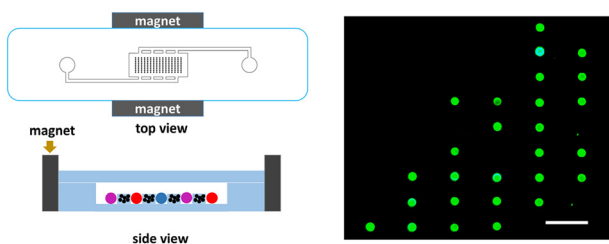
11218



## Acellular dermal matrix hydrogels promote healing of radiation-induced skin injury in a rat model

Xin Liu, Tian Guo, Zhifeng Huang, Sen Chen, Li Chen, Chenyang Li, Tian Tian, Yerong Qian, Lifei Yang, Junxi Xiang, Qiufang Liu\* and Peng Liu\*

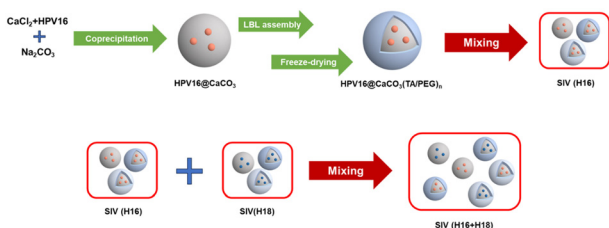
11230



## Microfluidic synthesis and accurate immobilization of low-density QD-encoded magnetic microbeads for multiplex immunoassay

Zhou Sha, Tianyi Ling, Wenqi Yang, Haosu Xie, Chunnan Wang and Shuqing Sun\*

11237



## A single-injection vaccine providing protection against two HPV types

Jianchen Zhang, Yu Liu, Ying Guan\* and Yongjun Zhang\*

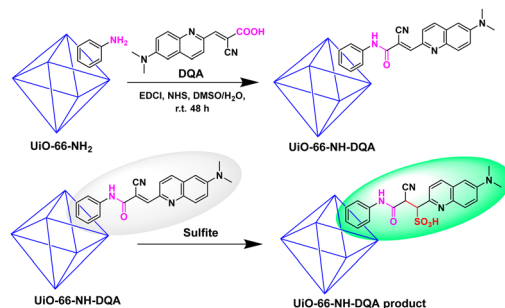


## PAPERS

11251

### Improving the sulfite-detection performance of a fluorescent probe via post-synthetic modification with a metal–organic framework

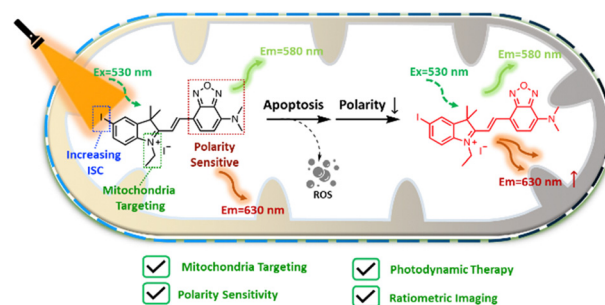
Jing-Yi Shi, Bin Wang, Xin-Yue Cui, Xiao-Wei Hu,\*  
Hai-Liang Zhu\* and Yu-Shun Yang\*



11259

### A dual-functional photosensitizer for mitochondria-targeting photodynamic therapy and synchronous polarity monitoring

Liu Yang, Shenglong Gan, Jie Zhang, Yin Jiang,\*  
Qingxin Chen\* and Hongyan Sun\*



## CORRECTION

11265

### Correction: Blood-clotting model and simulation analysis of polyvinyl alcohol–chitosan composite hemostatic materials

Yifan Zhao, Junhong Hao,\* Zexin Chen, Mengmeng Li, Jianxun Ren and Xiaobing Fu

