

# Journal of Materials Chemistry B

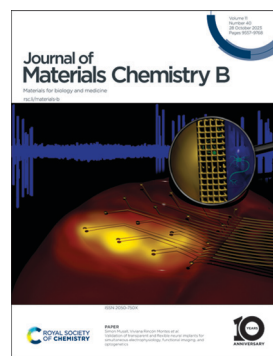
Materials for biology and medicine

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## IN THIS ISSUE

ISSN 2050-750X CODEN JMCBDV 11(40) 9557-9768 (2023)



### Cover

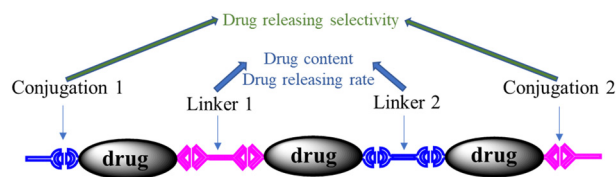
See Simon Musall, Viviana Rincón Montes *et al.*, pp. 9639–9657. Image reproduced by permission of Lina Koschinski, Simon Musall, and Viviana Rincón Montes from *J. Mater. Chem. B*, 2023, 11, 9639.

## HIGHLIGHT

9565

### Polyprodrugs for tumor chemotherapy: from molecular structure to drug release performance

Peng Liu

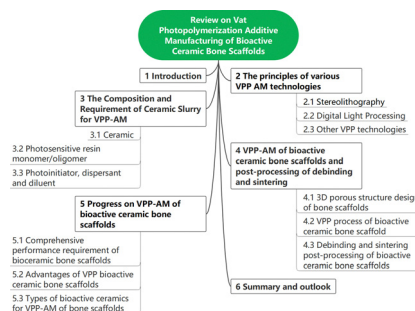


## REVIEWS

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### Review on vat photopolymerization additive manufacturing of bioactive ceramic bone scaffolds

Wang Guo,\* Bowen Li, Ping Li, Lei Zhao, Hui You\* and Yu Long\*



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Journal of Materials Chemistry B (electronic: ISSN 2050-7518) is published

48 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

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# Journal of Materials Chemistry B

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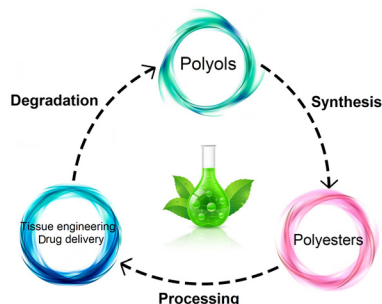


## REVIEWS

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### Harnessing the power of polyol-based polyesters for biomedical innovations: synthesis, properties, and biodegradation

Vafa Fakhri,\* Chia-Hung Su, Masoud Tavakoli Dare, Maryam Bazmi, Aliakbar Jafari and Vahid Pirouzfard

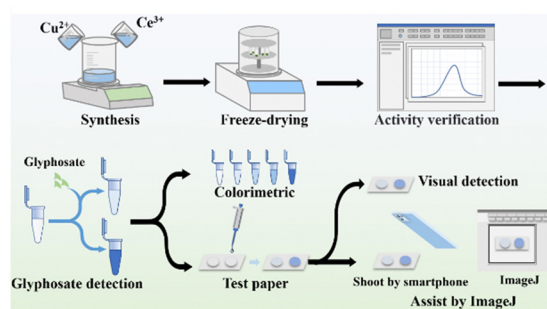


## COMMUNICATION

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### CuCeTA nanoflowers as an efficient peroxidase candidate for direct colorimetric detection of glyphosate

Cong Jiang, Huimin Zhong, Jiahui Zou, Guancheng Zhu and Yanyan Huang\*

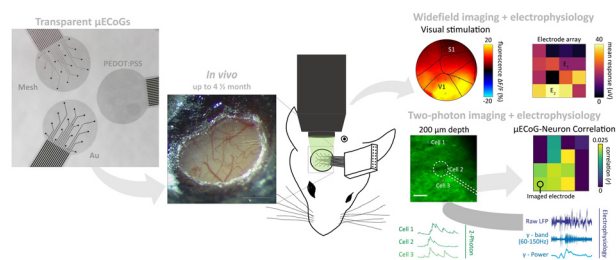


## PAPERS

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### Validation of transparent and flexible neural implants for simultaneous electrophysiology, functional imaging, and optogenetics

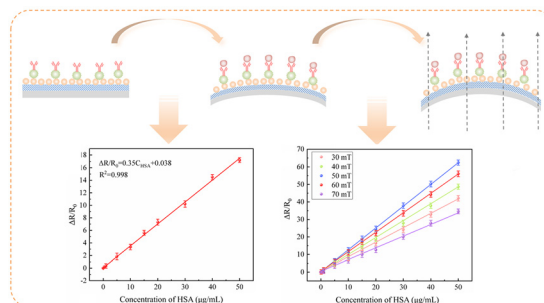
Lina Koschinski, Bohdan Lenyk, Marie Jung, Irene Lenzi, Björn Kampa, Dirk Mayer, Andreas Offenhäusser, Simon Musall\* and Viviana Rincón Montes\*



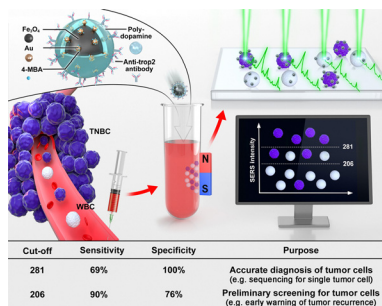
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### A mechanical biosensor based on membrane-mediated magneto-stress-electric coupled sensitization for human serum albumin detection

Dong Zhao, Pengli Xiao, Xiushan Dong, Yang Ge, Xing Guo, Jianlong Ji, Yongqiang Cheng and Shengbo Sang\*



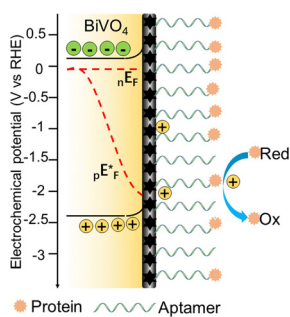
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### A novel dual-function SERS-based identification strategy for preliminary screening and accurate diagnosis of circulating tumor cells

Dinghu Zhang, Jie Lin,\* Yanping Xu, Xiaoxia Wu, Xiawei Xu, Yujiao Xie, Ting Pan, Yiwei He, Jun Luo, Zhewei Zhang, LinYin Fan, Shunxiang Li, Tianxiang Chen, Aiguo Wu\* and Guoliang Shao\*

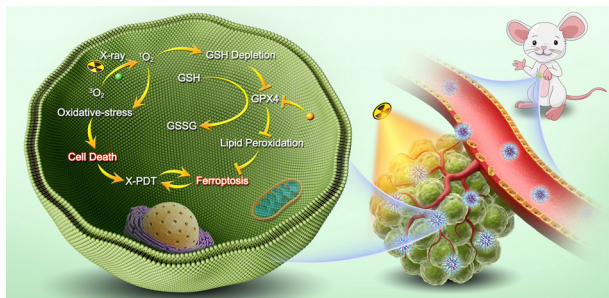
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### A carbon quantum layer modified BiVO<sub>4</sub> photoelectrochemical aptamer biosensor for ultra-sensitive cTnI biomarker detection based on the interface nephelauxetic effect and heterojunction assistance

Lin Wang, Jie Liu, Xianying Dai, Linfu Zhou,\* Yuyu Bu\* and Gang Zhao

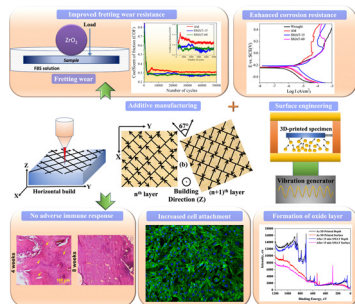
9685



### Application of singlet oxygen-activatable nanocarriers to boost X-ray-induced photodynamic therapy and cascaded ferroptosis for breast cancer treatment

Beibei Zhang,\* Hao Liu, Yifei Wang, Yong Zhang\* and Jingliang Cheng\*

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### Surface nanocrystallization enhances the biomedical performance of additively manufactured stainless steel

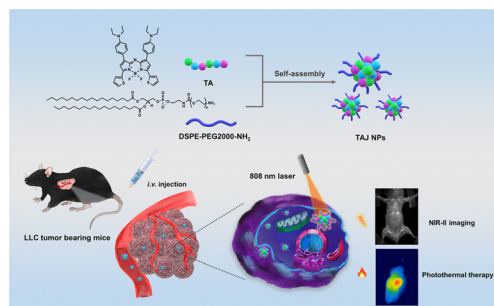
Sumit Ghosh, Sushma Indrakumar, Santanu Ghosh, Vasanth Gopal, Sagar Nilawar, Geetha Manivasagam, Jayanth S. Kesave, Satyam Suwas and Kaushik Chatterjee\*



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### J-Aggregation induced NIR-II fluorescence: an aza-BODIPY luminogen for efficient phototheranostics

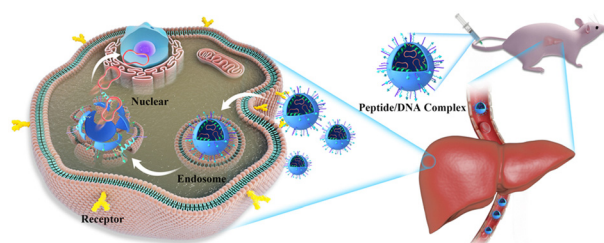
Na Yang, Shuang Song, Mahmood Hassan Akhtar, Chang Liu, Lang Yao, Jiayuan Yu, Ying Li, Qianxue Li, Di He\* and Cong Yu\*



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### Multifunctional gene delivery vectors containing different liver-targeting fragments for specifically transfecting hepatocellular carcinoma (HCC) cells

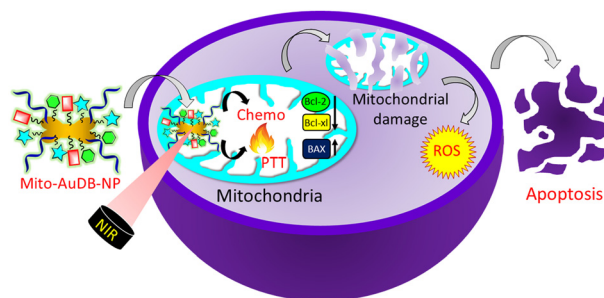
Qin Cheng, Taoran Wang, Jing Zhang, Long Tian, Chunlan Zeng, Zhao Meng,\* Changhao Zhang\* and Qingbin Meng\*



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### Dog-bone shaped gold nanoparticle-mediated chemo-photothermal therapy impairs the powerhouse to trigger apoptosis in cancer cells

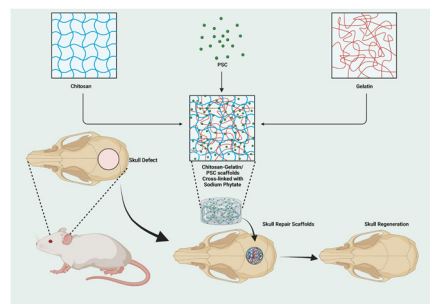
Jaypalsing Ingle, Bhawna Uttam, Reha Panigrahi, Saumyakanti Khatua\* and Sudipta Basu\*



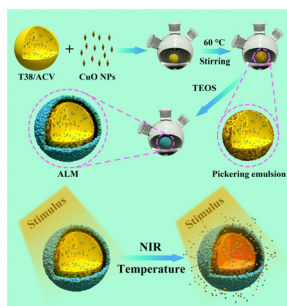
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### A pH-neutral bioactive glass empowered gelatin–chitosan–sodium phytate composite scaffold for skull defect repair

Bin Zhu, Yu Liu, Yanlei Zhao, Xinyu Dou, Linbang Wang, Shuyuan Min, Xiaoguang Liu\* and Dong Qiu\*



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### Preparation and performance of a stimuli-responsive drug delivery system: novel light-triggered temperature-sensitive drug-loaded microcapsules

Zhengguo Chen, Wangting Zhou, Yujing Wei, Lingling Shi, Zhaoxia Zhang, Mehran Dadgar, Guocheng Zhu and Guoqing Zhang\*

## CORRECTION

9765

### Correction: Hybrid lanthanide nanoparticles as a new class of binary contrast agents for *in vivo* $T_1/T_2$ dual-weighted MRI and synergistic tumor diagnosis

Zhigao Yi, Xiaolong Li, Wei Lu, Hongrong Liu, Songjun Zeng\* and Jianhua Hao\*

