

# Journal of Materials Chemistry B

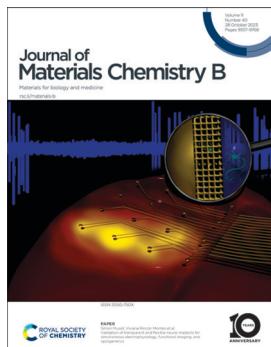
Materials for biology and medicine

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## IN THIS ISSUE

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



### Cover

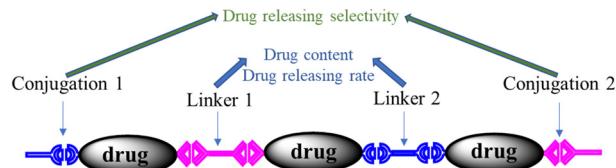
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Koschinski, Simon Musall,  
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from *J. Mater. Chem. B*,  
2023, 11, 9639.

## HIGHLIGHT

9565

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

Peng Liu

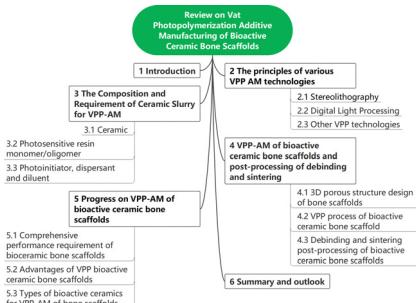


## REVIEWS

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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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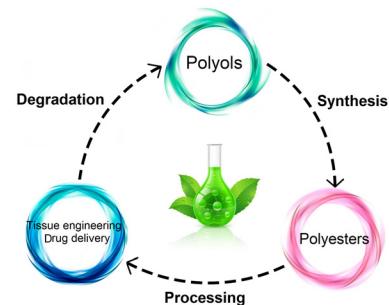


## REVIEWS

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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 Pirouzfar

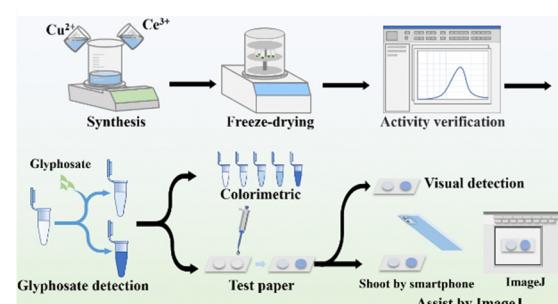


## COMMUNICATION

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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\*

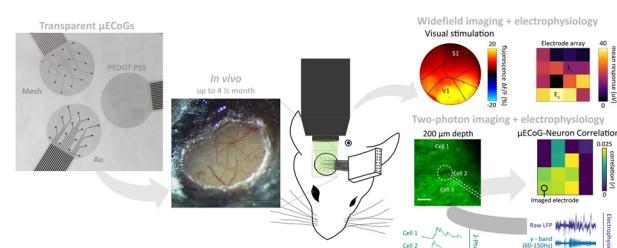


## PAPERS

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

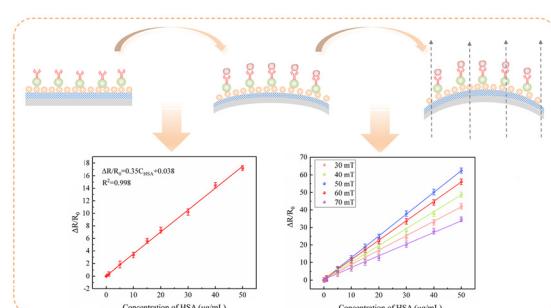
Lina Koschinski, Bohdan Lenyk, Marie Jung, Irene Lenzi, Björn Kampa, Dirk Mayer, Andreas Offenbäusser, Simon Musall\* and Viviana Rincón Montes\*



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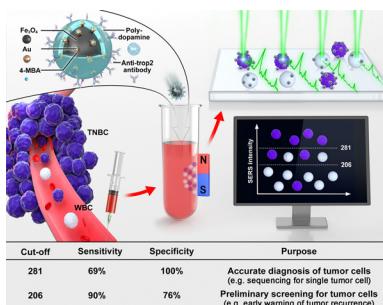
**A mechanical biosensor based on membrane-mediated magneto-stress-electric coupled sensitization for human serum albumin detection**

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



## PAPERS

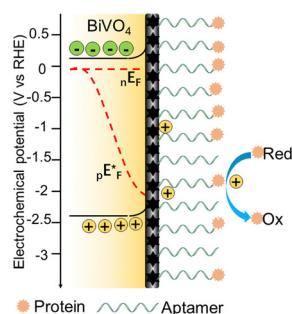
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**A novel dual-function SERS-based identification strategy for preliminary screening and accurate diagnosis of circulating tumor cells**

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\*

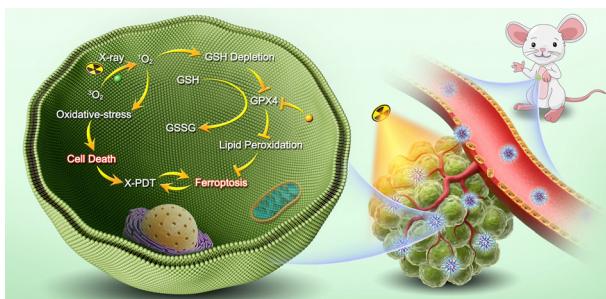
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**A carbon quantum layer modified  $\text{BiVO}_4$  photoelectrochemical aptamer biosensor for ultra-sensitive cTnI biomarker detection based on the interface nephelauxetic effect and heterojunction assistance**

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

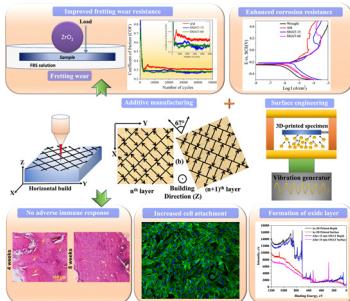
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**Application of singlet oxygen-activatable nanocarriers to boost X-ray-induced photodynamic therapy and cascaded ferroptosis for breast cancer treatment**

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\*

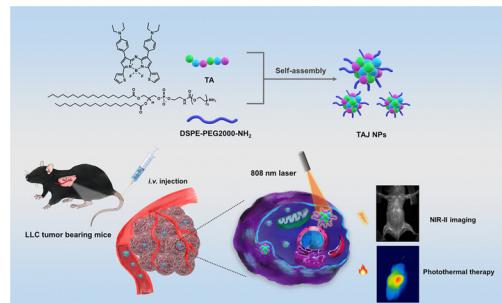


## PAPERS

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

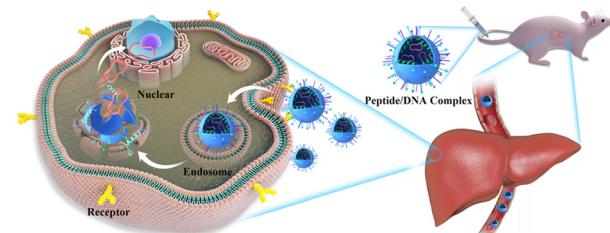
Na Yang, Shuang Song, Mahmood Hassan Akhtar, Chang Liu, Lang Yao, Jiayuan Yu, Ying Li, Qianxue Li, Di He\* and Cong Yu\*



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

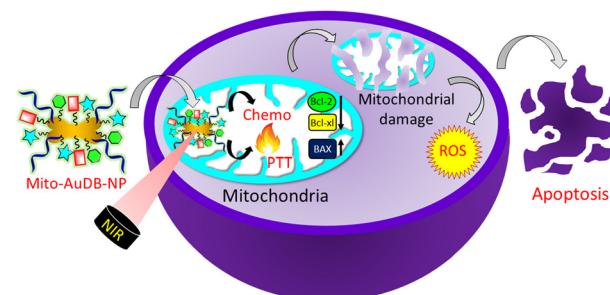
Qin Cheng, Taoran Wang, Jing Zhang, Long Tian, Chunlan Zeng, Zhao Meng,\* Changhao Zhang\* and Qingsbin Meng\*



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

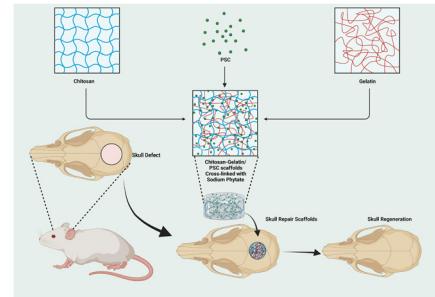
Jaypalsing Ingle, Bhawna Uttam, Reha Panigrahi, Saumyakanti Khatua\* and Sudipta Basu\*



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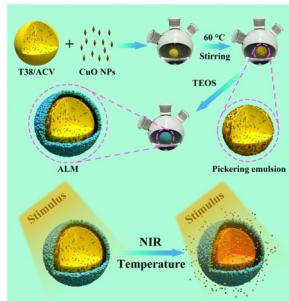
**A pH-neutral bioactive glass empowered gelatin–chitosan–sodium phytate composite scaffold for skull defect repair**

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

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**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\*

