

# Journal of Materials Chemistry B

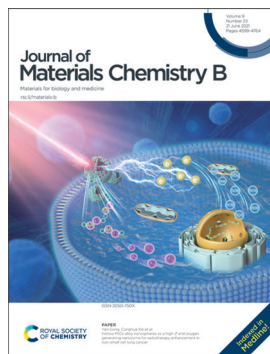
Materials for biology and medicine

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## IN THIS ISSUE

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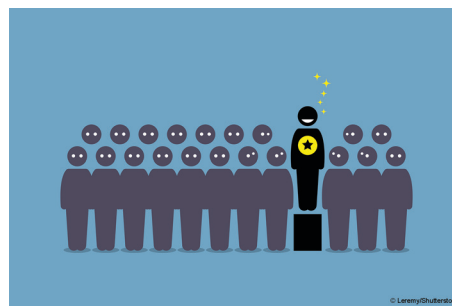
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## EDITORIAL

4607

### Outstanding Reviewers for *Journal of Materials Chemistry B* in 2020

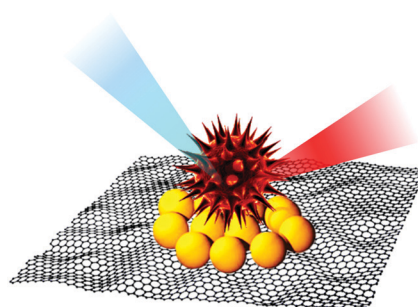


## REVIEWS

4608

### 2D materials as a diagnostic platform for the detection and sensing of the SARS-CoV-2 virus: a bird's-eye view

Pranay Ranjan, Vinoy Thomas\* and Prashant Kumar\*



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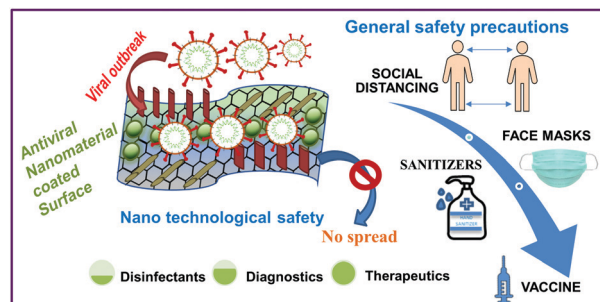
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## REVIEWS

4620

### High-performance antiviral nano-systems as a shield to inhibit viral infections: SARS-CoV-2 as a model case study

Mohd. Abubakar Sadique, Shalu Yadav, Pushpesh Ranjan, Sarika Verma, Shabi Thankaraj Salammal, Mohd. Akram Khan, Ajeet Kaushik and Raju Khan\*

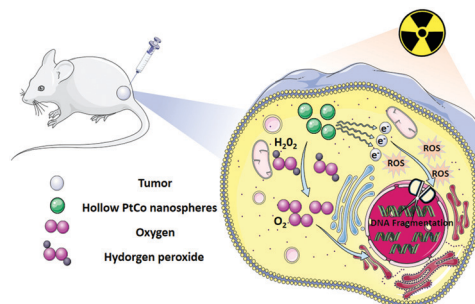


## PAPERS

4643

### Hollow PtCo alloy nanospheres as a high-Z and oxygen generating nanozyme for radiotherapy enhancement in non-small cell lung cancer

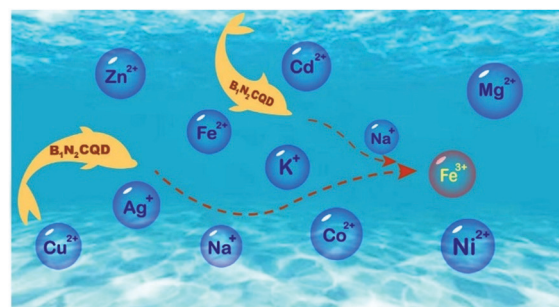
Shuying Li, Wenjie Sun, Yuan Luo, Yanping Gao, Xueping Jiang, Cheng Yuan, Linzhi Han, Kuo Cao, Yan Gong\* and Conghua Xie\*



4654

### Highly fluorescent nitrogen and boron doped carbon quantum dots for selective and sensitive detection of Fe<sup>3+</sup>

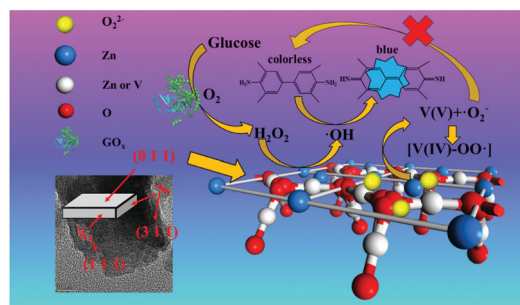
Yunhao Zhang, Hongxin Qin, Yuting Huang, Feng Zhang, Hairong Liu, Hongbo Liu, Zi Jun Wang and Run Li\*



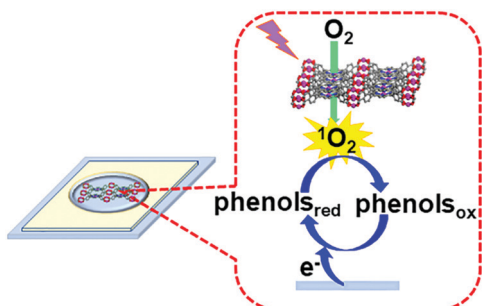
4663

### Spinel Zn<sub>3</sub>V<sub>3</sub>O<sub>8</sub> nanosheets via a one-step hydrothermal synthesis with peroxidase-like activity for high sensitivity glucose colorimetric detection in synthetic perspiration

Guizeng Yang, Yi Lu, Yi Li, Meihui Ying, Haibo Pan,\* Jiayuan Qi\* and Min Du



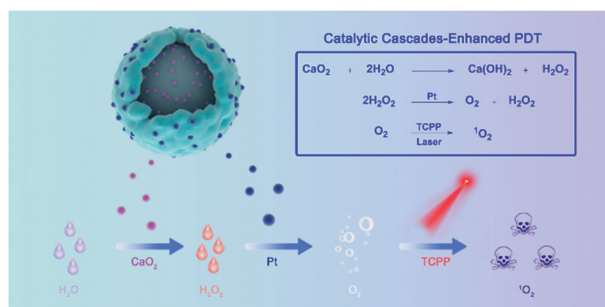
4670



### Singlet-oxygen generated by a metal–organic framework for electrochemical biosensing

Pinghua Ling,\* Shan Cheng, Nuo Chen and Feng Gao\*

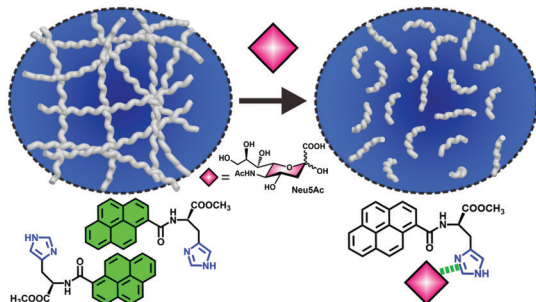
4678



### A versatile nanoplatform based on multivariate porphyrinic metal–organic frameworks for catalytic cascade-enhanced photodynamic therapy

Shen-Zhen Ren, Xiao-Hua Zhu, Bin Wang, Ming Liu, Shu-Kai Li, Yu-Shun Yang,\* Hailong An\* and Hai-Liang Zhu\*

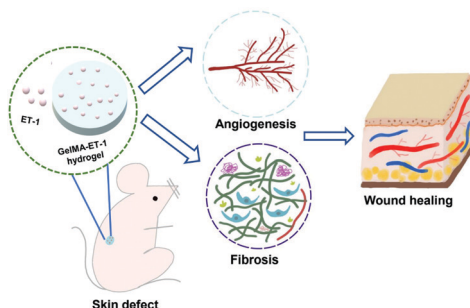
4690



### Self-assembly gel-based dynamic response system for specific recognition of *N*-acetylneuraminic acid

Xue Wang, Shengxu Qian, Dongdong Wang, Cunli Wang, Haijuan Qin, Lang Peng, Wenqi Lu, Yahui Zhang and Guangyan Qing\*

4700



### Gelatin methacryloyl hydrogels functionalized with endothelin-1 for angiogenesis and full-thickness wound healing

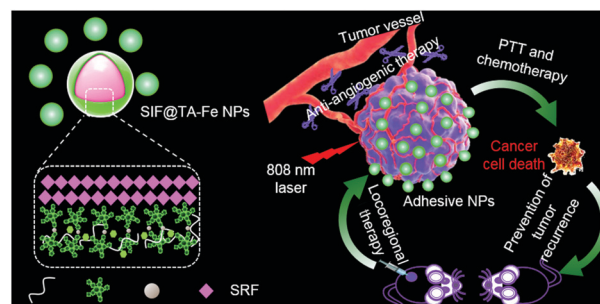
Meng-Na Li, Hong-Ping Yu, Qin-Fei Ke, Chang-Qing Zhang, You-Shui Gao\* and Ya-Ping Guo\*

## PAPERS

4710

# Bioadhesive metal–phenolic nanoparticles for enhanced NIR imaging-guided locoregional photothermal/antiangiogenic therapy

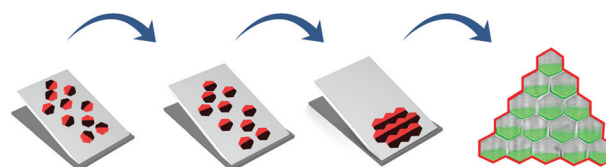
Xiuxia Wang, Hongyu Li, Fanling Meng\* and Liang Luo



4718

# Friction-directed self-assembly of Janus lithographic microgels into anisotropic 2D structures

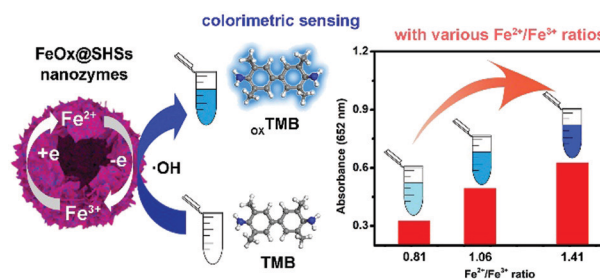
Yadu Nath Vakkipurath Kodakkadan, Charlie Maslen, Petr Cigler, František Štěpánek and Ivan Rehor\*



4726

# Sensitive colorimetric glucose sensor by iron-based nanozymes with controllable Fe valence

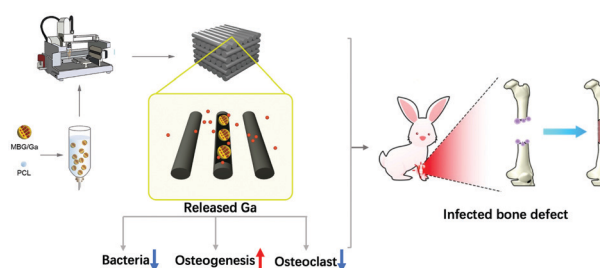
Wenli Zhao, Guangpu Zhang, Yang Du, Shuangqin Chen, You Fu, Fan Xu, Xiangyun Xiao, Wei Jiang\* and Qingmin Ji\*



4735

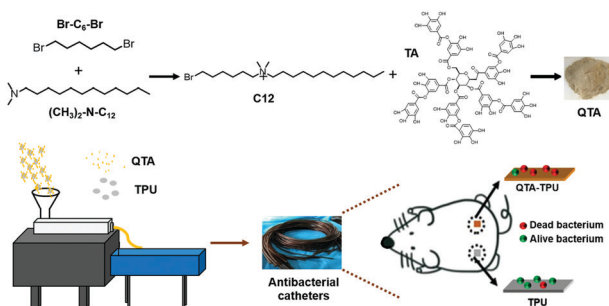
# A 3D printed Ga containing scaffold with both anti-infection and bone homeostasis-regulating properties for the treatment of infected bone defects

Minqi Wang, Yiqi Yang, Guanghao Chi, Kai Yuan, Feng Zhou, Liang Dong, Haibei Liu, Qinghui Zhou, Weihua Gong,\* Shengbing Yang\* and Tingting Tang\*





4746



## Quaternary tannic acid with improved leachability and biocompatibility for antibacterial medical thermoplastic polyurethane catheters

Yue Wang, Shuaizhen Liu, Kaidi Ding, Yaocheng Zhang, Xuejia Ding\* and Jianguo Mi