

# Journal of Materials Chemistry B

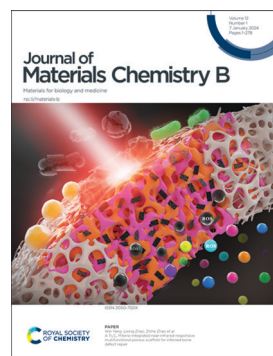
Materials for biology and medicine

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## IN THIS ISSUE

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### Cover

See Wei Yang, Lixing Zhao, Zhihe Zhao *et al.*, pp. 79–96.  
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## EDITORIAL

10

### Looking back at the 10<sup>th</sup> anniversary year of *Journal of Materials Chemistry A, B and C*

Anders Hagfeldt, Jeroen Cornelissen and Natalie Stingelin

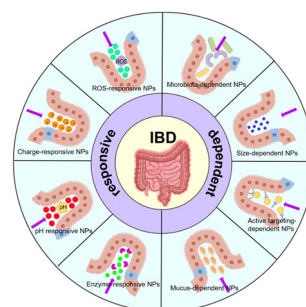


## REVIEWS

13

### Orally-administered nanomedicine systems targeting colon inflammation for the treatment of inflammatory bowel disease: latest advances

Shumeng Hu, Runan Zhao, Yu Xu, Zelin Gu, Beiwei Zhu\* and Jiangning Hu\*



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Fundamental questions  
Elemental answers



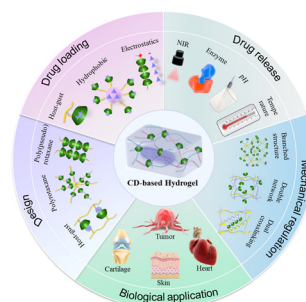


## REVIEWS

39

## Engineered cyclodextrin-based supramolecular hydrogels for biomedical applications

Yuqi Zhao, Zhi Zheng,\* Cui-Yun Yu\* and Hua Wei\*

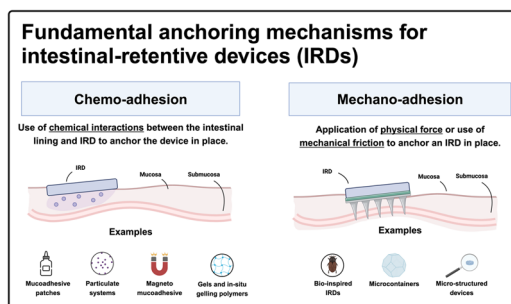


## PERSPECTIVE

64

## Intestinal retentive systems – recent advances and emerging approaches

Durva A. Naik, Spencer Matonis, Gaurav Balakrishnan and Christopher J. Bettinger\*

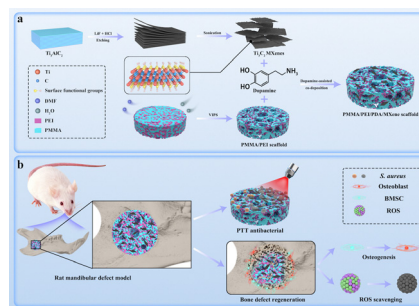


## PAPERS

79

## A Ti<sub>3</sub>C<sub>2</sub> MXene-integrated near-infrared-responsive multifunctional porous scaffold for infected bone defect repair

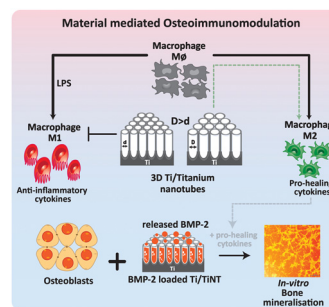
Linli Zhang, Hui Zhang, Hongling Zhou, Yi Tan, Zhengmin Zhang, Wei Yang,\* Lixing Zhao\* and Zhihe Zhao\*



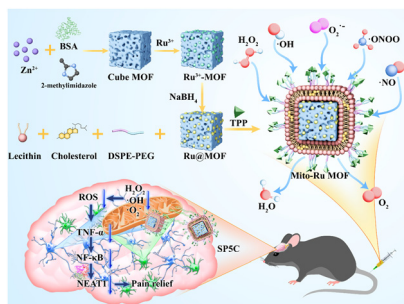
97

## Osteoimmune-modulating and BMP-2-eluting anodised 3D printed titanium for accelerated bone regeneration

Masood Ali, Yan He, Anna Sze Ni Chang, Alice Wu, Jingyu Liu, Yuxue Cao, Yousuf Mohammad, Amirali Papat, Laurie Walsh, Qingsong Ye,\* Chun Xu\* and Tushar Kumeria\*



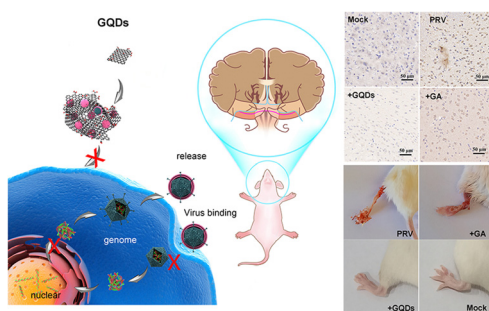
112



### Mitochondria-targeting nanozyme alleviating temporomandibular joint pain by inhibiting the TNF $\alpha$ /NF- $\kappa$ B/NEAT1 pathway

Qian Bai, Yaoyao Zhou, Xiaona Cui, Haichao Si, Tingting Wu, Abdul Nasir, Heng Ma, Junyue Xing, Yingying Wang, Xiaolei Cheng, Xiaojun Liu,\* Shaoyan Qi,\* Zhisong Li and Hao Tang\*

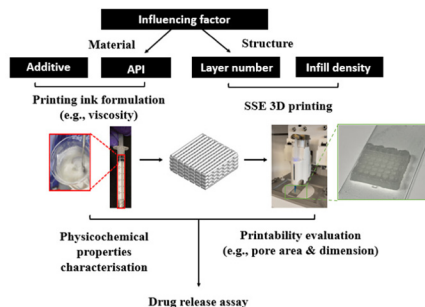
122



### Enhanced *in vivo* antiviral activity against pseudorabies virus through transforming gallic acid into graphene quantum dots with stimulation of interferon-related immune responses

Shiyi Ye, Fei Su, Junxing Li, Bin Yu, Lihua Xu, Tao Xiong, Kang Shao\* and Xiufang Yuan\*

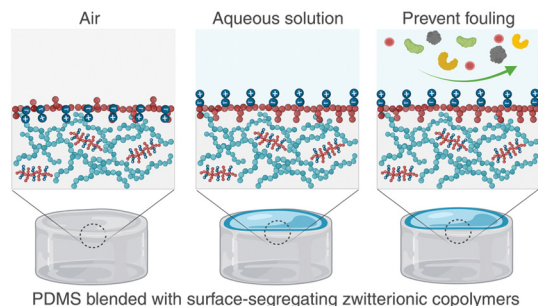
131



### An investigation into the effects of ink formulations of semi-solid extrusion 3D printing on the performance of printed solid dosage forms

Bin Zhang,\* Peter Belton, Xin Yi Teoh, Andrew Gleadall, Richard Bibb and Sheng Qi\*

145



### Surface-segregating zwitterionic copolymers to control poly(dimethylsiloxane) surface chemistry

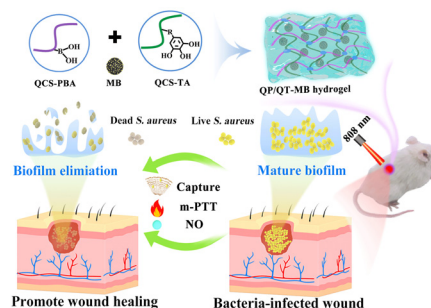
A. Aslihan Gokaltun, Luca Mazzaferro, Martin L. Yarmush, O. Berk Usta\* and Ayse Asatekin\*



158

### Photothermal synergistic nitric oxide controlled release injectable self-healing adhesive hydrogel for biofilm eradication and wound healing

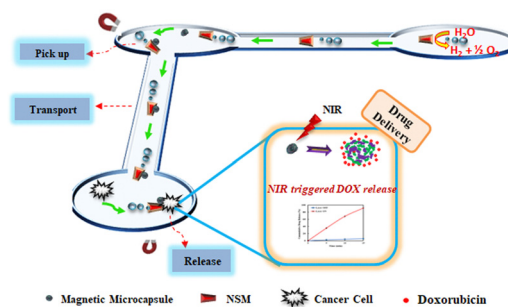
Weiling Peng, Lixia Li, Yu Zhang, Haibing Su, Xiaohe Jiang, Haimeng Liu, Xiaohua Huang,\* Li Zhou, Xing-Can Shen and Chanjuan Liu\*



176

### A novel magnetically guided, oxygen propelled CoPt/Au nanosheet motor in conjugation with a multilayer hollow microcapsule for effective drug delivery and light triggered drug release

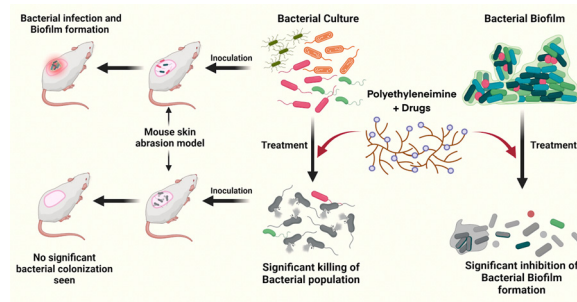
Samira Kariminia, Mojtaba Shamsipur\* and Kamran Mansouri



187

### Structure–activity relationship of drug conjugated polymeric materials against uropathogenic bacteria colonization under *in vitro* and *in vivo* settings

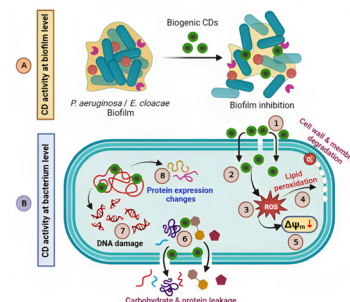
Sourav Sarkar, Parikshit Moitra and Santanu Bhattacharya\*



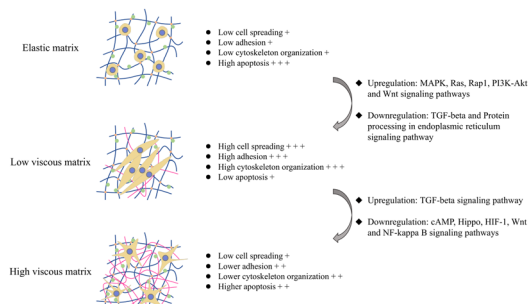
202

### Biogenic carbon dots: a novel mechanistic approach to combat multidrug-resistant critical pathogens on the global priority list

Ajith Manayil Parambil, Abhinav Prasad, Anuj Kumar Tomar, Ilora Ghosh and Paulraj Rajamani\*



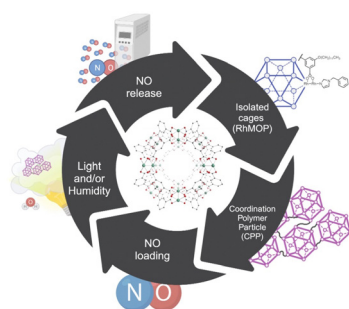
222



## Effects of matrix viscoelasticity on cell–matrix interaction, actin cytoskeleton organization, and apoptosis of osteosarcoma MG-63 cells

Huan Deng, Yao Wang, Yue Yin, Jun Shu, Junwei Zhang, Xuedong Shu, Fang Wu\* and Jing He\*

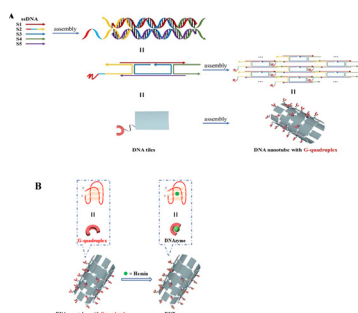
233



## Dual photoresponsive & water-triggered nitric oxide releasing materials based on rhodium-based metal–organic polyhedra

Francisco J. Carmona, Thiago Negrão Chuba, Eli Sánchez-González, Jenny Pirillo, Yuh Hijikata and Shuhei Furukawa\*

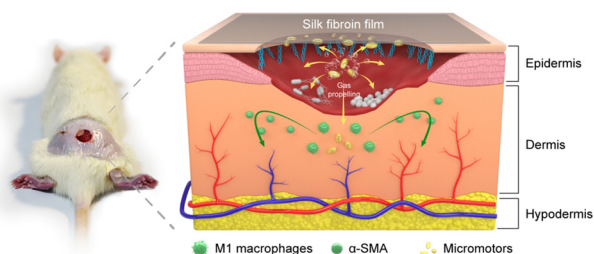
240



## Construction of a highly efficient DNA nanotube sensor with peroxide-like activity

Ying Zhang, Lingqi Wu, Xin Su\* and Hao Liang\*

250



## CaO<sub>2</sub>–Cu<sub>2</sub>O micromotors accelerate infected wound healing through antibacterial functions, hemostasis, improved cell migration, and inflammatory regulation

Ga Liu, Menghang Zu, Lingshuang Wang, Cheng Xu, Jiamei Zhang, Rui L. Reis, Subhas C. Kundu, Bo Xiao,\* Lian Duan\* and Xiao Yang\*

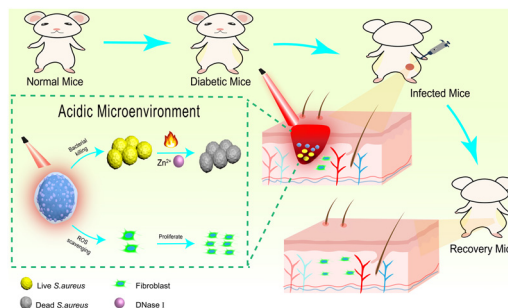


## PAPERS

264

### Ternary low-temperature phototherapy nano-systems for the treatment of diabetic wounds

Shaopeng Liu, Dan Peng, Shuohan He, Xuan Li, Yi Wu, Xin Liu, Yang Zhang, Peng Liu\* and Kaiyong Cai\*



## CORRECTION

275

### Correction: Mitochondria-targeting nanozyme alleviating temporomandibular joint pain by inhibiting the $\text{TNF}\alpha/\text{NF-}\kappa\text{B}/\text{NEAT1}$ pathway

Qian Bai, Yaoyao Zhou, Xiaona Cui, Haichao Si, Tingting Wu, Abdul Nasir, Heng Ma, Junyue Xing, Yingying Wang, Xiaolei Cheng, Xiaojun Liu,\* Shaoyan Qi,\* Zhisong Li and Hao Tang\*

