

# Journal of Materials Chemistry B

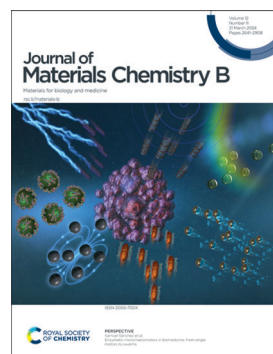
Materials for biology and medicine

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## IN THIS ISSUE

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### Cover

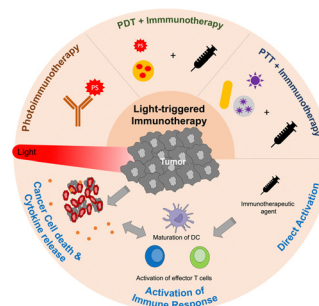
See Samuel Sánchez *et al.*, pp. 2711-2719.  
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## REVIEWS

2650

### Recent advances in light-triggered cancer immunotherapy

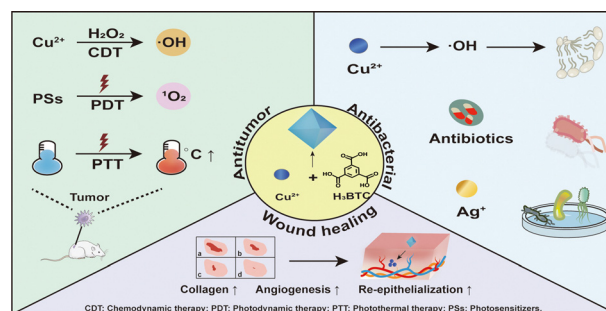
Jin-Kyoung Yang, Hayoon Kwon and Sehoon Kim\*



2670

### Unveiling the potential of HKUST-1: synthesis, activation, advantages and biomedical applications

Liuxuan Yang, Ke Wang, Ling Guo, Xiao Hu and Meiling Zhou\*



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Fundamental questions  
Elemental answers

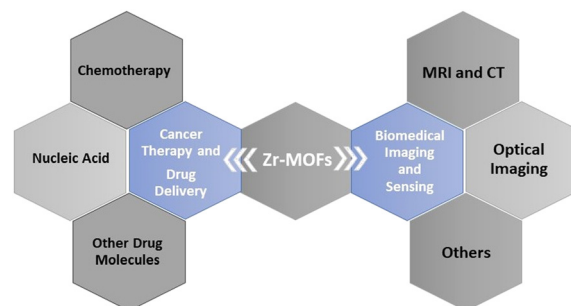


## REVIEWS

2691

**MOF magic: zirconium-based frameworks in theranostic and bio-imaging applications**

Dinesh K. Gupta, Santosh Kumar\* and Mohmmad Younus Wani

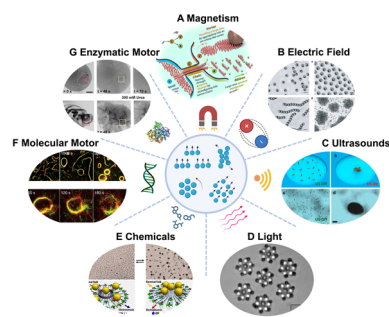


## PERSPECTIVES

2711

**Enzymatic micro/nanomotors in biomedicine: from single motors to swarms**

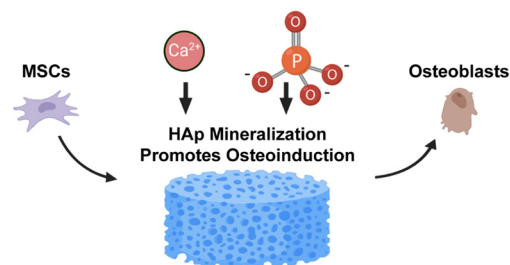
Shuqin Chen, Carles Prado-Morales, Daniel Sánchez-deAlcázar and Samuel Sánchez\*



2720

**Trends in bioactivity: inducing and detecting mineralization of regenerative polymeric scaffolds**

Brandon M. Nitschke, Felipe O. Beltran, Mariah S. Hahn and Melissa A. Grunlan\*

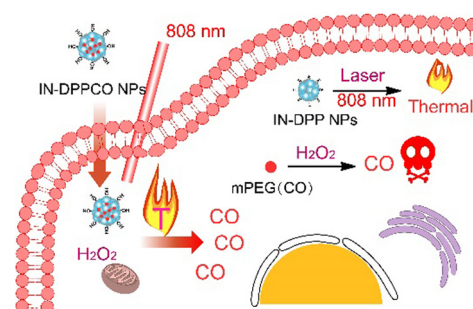
**Bioactive Regenerative Polymeric Scaffold**

## PAPERS

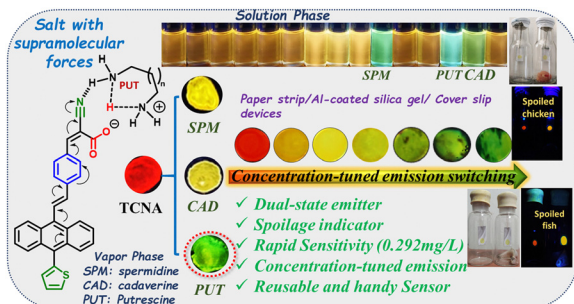
2737

**H<sub>2</sub>O<sub>2</sub>-triggered controllable carbon monoxide delivery for photothermally augmented gas therapy**

Kaiwen Chang, Xiaolin Sun, Mingying Fu, Bing Han, Xiaopeng Jiang, Qiaofang Qi, Yang Zhang, Tianjun Ni,\* Chunpo Ge\* and Zhijun Yang\*



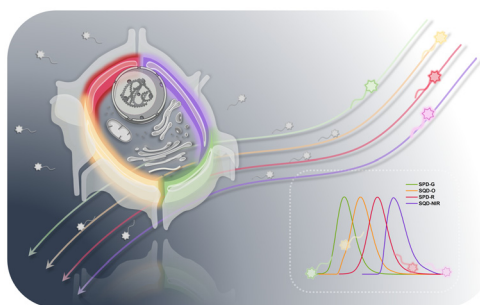
2746



### Concentration-tuned diverse response to selective biogenic amines using a reusable fluorophore: monitoring protein-rich food spoilage

Madhuparna Chakraborty, Pandiyan Sivasakthi, Pralok K. Samanta and Manab Chakravarty\*

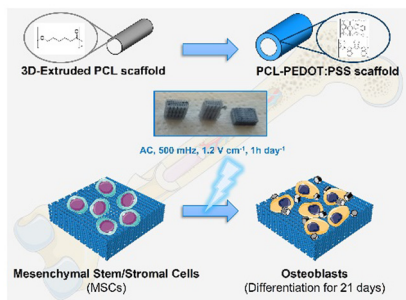
2761



### Target-activated multicolor fluorescent dyes for 3D imaging of plasma membranes and tracking of apoptosis

Junjun Pan, Xin Peng, Chuangye Yao, Jiaqi Zuo, Tingting Lei, Hui Feng, Kewei Zhang, Engao Zhu\* and Zhaosheng Qian\*

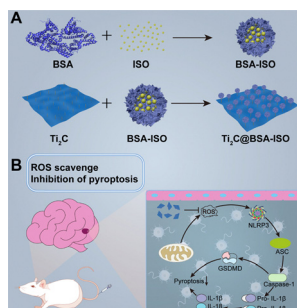
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### Synergy between 3D-extruded electroconductive scaffolds and electrical stimulation to improve bone tissue engineering strategies

João C. Silva,\* Pedro Marcelino, João Meneses, Frederico Barbosa, Carla S. Moura, Ana C. Marques, Joaquim M. S. Cabral, Paula Pascoal-Faria, Nuno Alves, Jorge Morgado, Frederico Castelo Ferreira\* and Fábio F. F. Garrudo\*

2795



### Simultaneous antioxidant and neuroprotective effects of two-dimensional (2D) MXene-loaded isoquercetin for ischemic stroke treatment

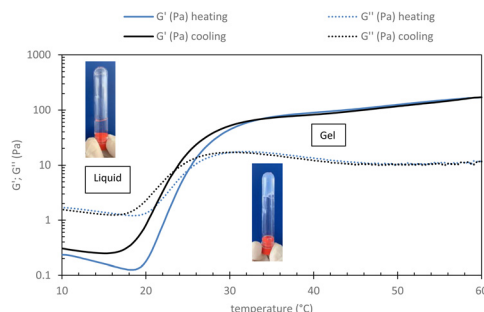
Limin Fan, Xinhua Lin, Limin Hong, Lehui Li, Run Lin, Tianbin Ren, Jia Tian\* and Miao Chen\*



2807

## Injectable polyoxazoline grafted hyaluronic acid thermoresponsive hydrogels for biomedical applications

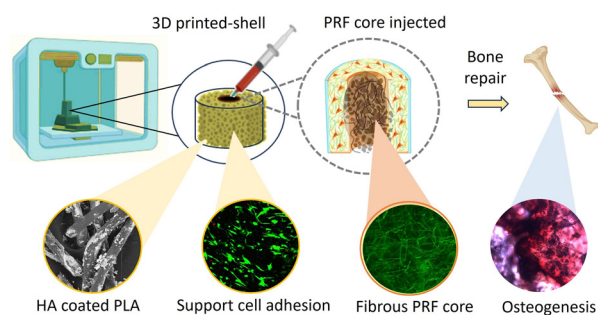
Morgane Morel, Mathieu Madau, Didier Le Cerf, Virginie Dulong, Anne-Claire Groo, Aurélie Malzert-Fréon and Luc Picton\*



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## Development of bioactive short fiber-reinforced printable hydrogels with tunable mechanical and osteogenic properties for bone repair

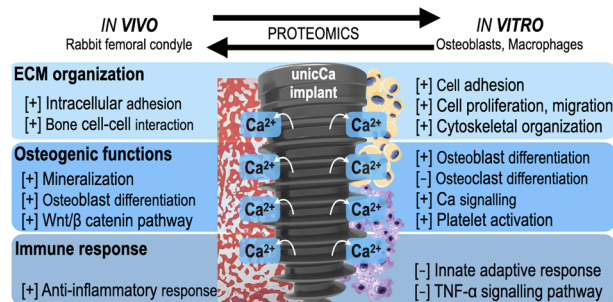
Nafiseh Moghimi,\* Meenakshi Kamaraj, Fatemeh Zehtabi, Saber Amin Yavari, Mohammad Kohandel, Ali Khademhosseini\* and Johnson V. John\*



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## Enhancing the correlation between *in vitro* and *in vivo* experiments in dental implant osseointegration: investigating the role of Ca ions

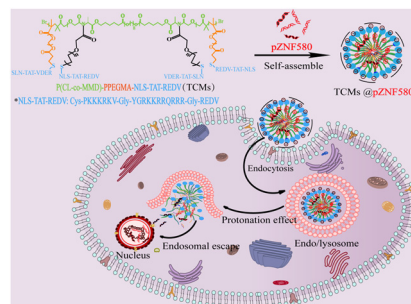
Francisco Romero Gavilán, Andreia Cerqueira, Eduardo Anitua, Fernando Muñoz, Iñaki García Arnáez, Mikel Azkargorta, Félix Elortza, Mariló Gurruchaga, Isabel Goñi, Julio Suay and Ricardo Tejero\*



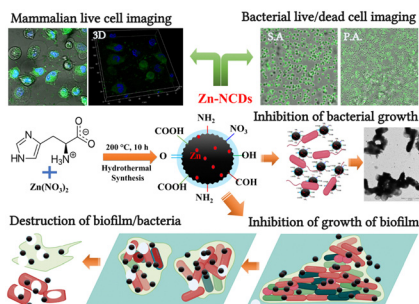
2843

## Amphiphilic multi-targeting copolymer micelles efficiently deliver pZNF580 to promote endothelial cell proliferation and migration

Chen Li, Qirong Xu, Xiangyan Meng, Xinghong Duo\* and Yakai Feng\*



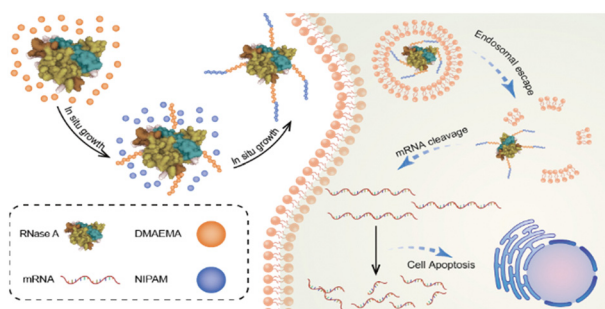
2855



### Preventing biofilm formation and eradicating pathogenic bacteria by Zn doped histidine derived carbon quantum dots

Vijay Bhooshan Kumar,\* Maoz Lahav and Ehud Gazit\*

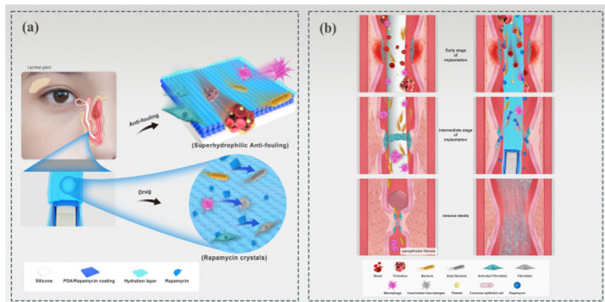
2869



### Ribonuclease A–polymer conjugates *via in situ* growth for cancer treatment

Lin Jiang, Xiao Liang, Jiaxin Jia, Haobo Han,\* Jun Tang\* and Quanshun Li\*

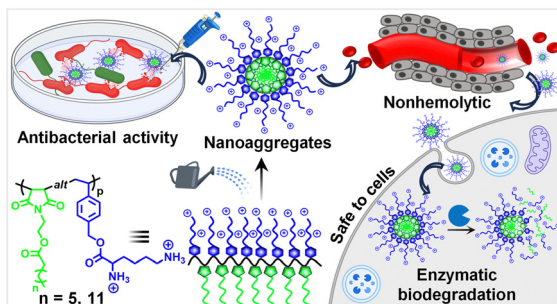
2877



### Two-electron oxidized polyphenol chemistry-inspired superhydrophilic drug-carrying coatings for the construction of multifunctional nasolacrimal duct stents

Wenzhe Xiao, Binjian Wang, Xuemei Wang, Guanghong Zhang, Yihao Zhao, Zezhen Zhang, Linhua Li\* and Chao Qu\*

2894



### Antibacterial activity of hydrophobicity modulated cationic polymers with enzyme and pH-responsiveness

Desoshree Ghosh, Sandeep Yadav, Sagar Bag, Amirul Islam Mallick\* and Priyadarsi De\*



## EXPRESSION OF CONCERN

2905

**Expression of Concern: One-pot synthesis of acid-degradable polyphosphazene prodrugs for efficient tumor chemotherapy**

Na Zhou, Ning Zhang, Zhe Zhi, Xunan Jing, Daomeng Liu, Yongping Shao, Daquan Wang\* and Lingjie Meng\*

## CORRECTION

2906

**Correction: Investigating the effect of acidic and basic precipitation on the antibacterial activity of ZnO nanoparticles against Gram-negative and Gram-positive bacteria**

Sreekanth R.,\* S. Naveen Kumar, Madhusudana Reddy MB, Jayadev Pattar and Vaddi Damodara Reddy

