

# Journal of Materials Chemistry B

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## IN THIS ISSUE

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### Cover

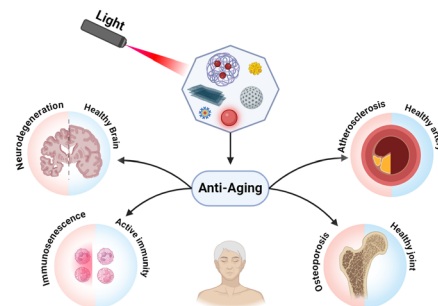
See Xiao Cen, Jianming Chen, Rong Wang *et al.*, pp. 8321–8334.  
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## REVIEWS

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### Light-responsive functional nanomaterials as pioneering therapeutics: a paradigm shift to combat age-related disorders

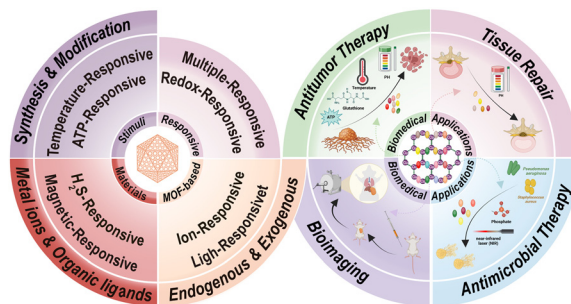
Shubham Kumar Singh, Shivay Parihar, Sanskar Jain, Ja-An Annie Ho and Raviraj Vankayala\*



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### Integrated design and application of stimuli-responsive metal–organic frameworks in biomedicine: current status and future perspectives

Hao Liu, Fei Xing, Peiyun Yu, Sujan Shakya, Kun Peng, Ming Liu, Zhou Xiang\* and Ulrike Ritz\*



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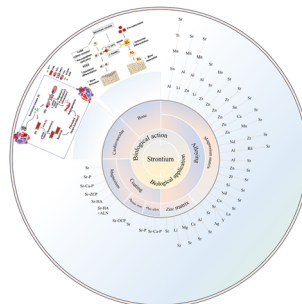
Fundamental questions  
Elemental answers

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### A comprehensive review on the role of strontium in biodegradable metals

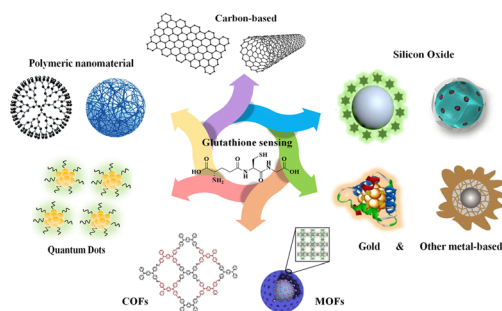
Huafang Li\* and Luqing Ma



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Saman Bagherpour and Lluïsa Pérez-García\*

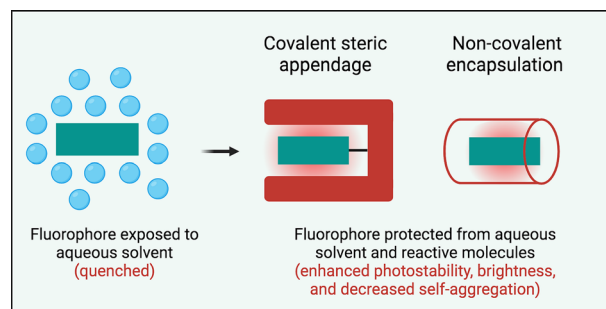


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### Steric protection of near-infrared fluorescent dyes for enhanced bioimaging

Sai Shradha Reddy Kommidi, Kirk M. Atkinson and Bradley D. Smith\*

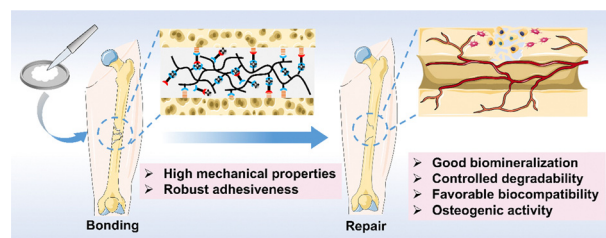


## PAPERS

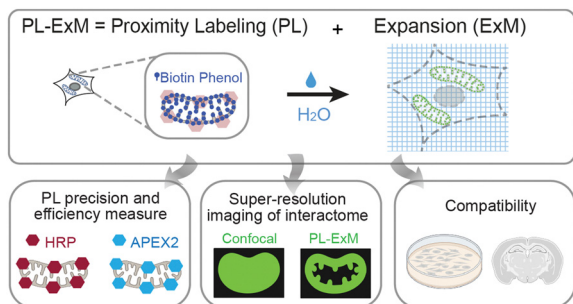
8321

### Polyacrylic acid-reinforced organic–inorganic composite bone adhesives with enhanced mechanical properties and controlled degradability

Pianpian Zheng, Junjie Deng, Lei Jiang, Ning Ni, Xinqi Huang, Zhihe Zhao, Xiaodong Hu, Xiao Cen,\* Jianming Chen\* and Rong Wang\*



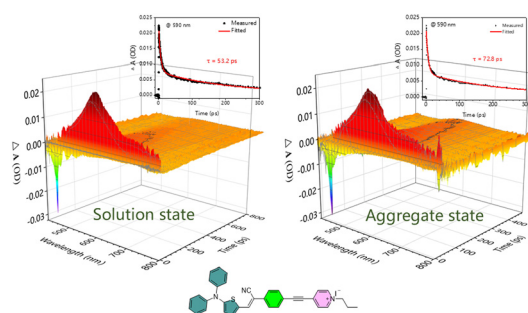
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### Proximity labeling expansion microscopy (PL-ExM) evaluates interactome labeling techniques

Sohyeon Park, Xiaorong Wang, Yajin Mo, Sicheng Zhang, Xiangpeng Li, Katie C. Fong, Clinton Yu, Arthur A. Tran, Lorenzo Scipioni, Zhipeng Dai, Xiao Huang, Lan Huang and Xiaoyu Shi\*

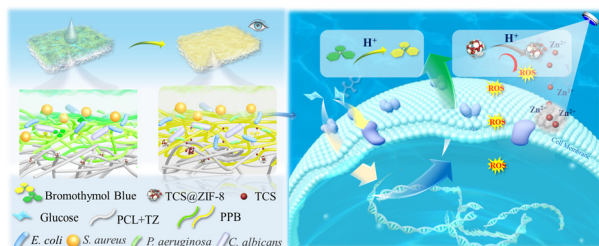
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### Study of transient absorption spectroscopy of a D- $\pi$ -A structure aggregation-induced emission luminogen and its photodynamic therapy application

Siwei Zhang, Junqiao Wang, Zaiyu Wang, Ming Shao, Chen Zhang, Ximmeng Chen, Jianwei Sun, Ryan Tsz Kin Kwok,\* Jacky Wing Yip Lam\* and Ben Zhong Tang\*

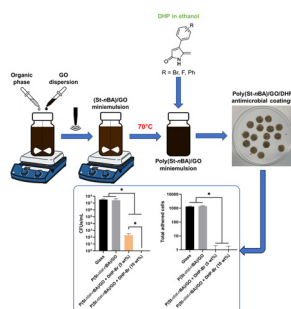
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### Bacteria-responsive functional electrospun membrane: simultaneous on-site visual monitoring and inhibition of bacterial infection

Min Wang, Yuanzhang Jiang, Kaiwen Zhuang\* and Lin Tan\*

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### Quorum sensing inhibiting dihydropyrrol-2-ones embedded polymer/graphene oxide nanocomposite waterborne antimicrobial coatings

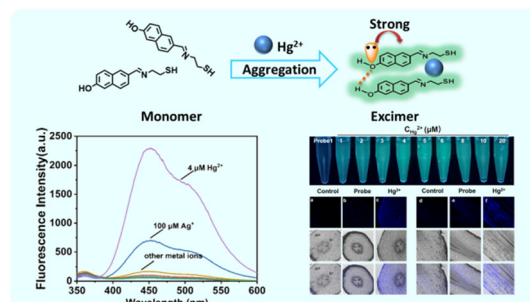
Renxun Chen,\* Namrata Maslekar, Sudip Chakraborty, Le N. M. Dinh, Yin Yao, Per B. Zetterlund, Naresh Kumar and Vipul Agarwal\*



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### An excimer process induced a turn-on fluorescent probe for detection of ultra-low concentration of mercury ions

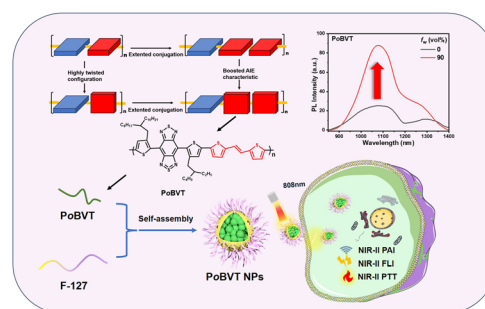
Shujing Fang, K. M. K. Swamy, Wen-Yan Zan, Juyoung Yoon\* and Shudi Liu\*



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### Fabrication of conjugated polymers with aggregation-induced near-infrared-II emission for efficient phototheranostics

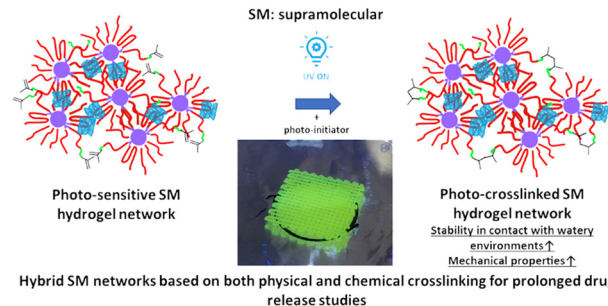
Hui Han, Yuwen Xue, Yafeng Yang, Kai Chen, Pengfei Sun,\* Qingming Shen\* and Quli Fan\*



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### Double-crosslinkable poly(urethane)-based hydrogels relying on supramolecular interactions and light-initiated polymerization: promising tools for advanced applications in drug delivery

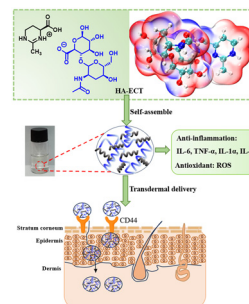
Alessandro Torchio, Monica Boffito,\* Rossella Laurano, Claudio Cassino, Mario Lavella and Gianluca Ciardelli\*



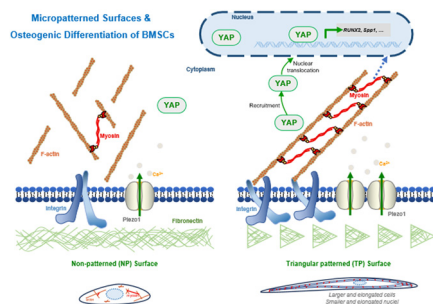
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### Anti-inflammatory and antioxidant effects on skin based on supramolecular hyaluronic acid–ectoin

Beibei Lu, Siran Zhao, Jichuan Zhang, Jingbo Zhan, Jianglin Zhang,\* Zhe Liu\* and Jiaheng Zhang\*



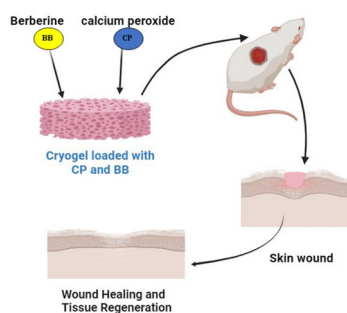
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## Osteogenic differentiation of bone mesenchymal stem cells on linearly aligned triangular micropatterns

Ye Zeng,\* Junyi Shen, Xintong Zhou, Zhi Ouyang, Jian Zhong, Yixue Qin, Linlu Jin, Xueling He, Liang Li, Jing Xie and Xiaoheng Liu

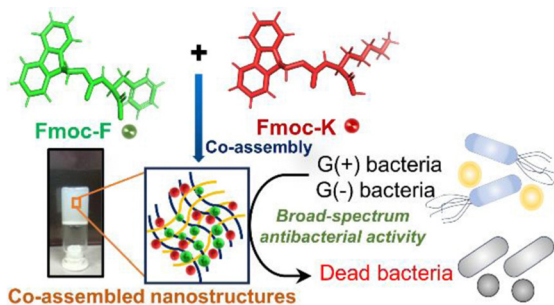
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## Fabrication and characterization of calcium peroxide and berberine loaded cryogels for enhanced wound healing

Lateef Ahmad Dar, Tasaduq Manzoor, Sabeeha Shafi, Ashok Kumar and Syed Mudassir Ahmad\*

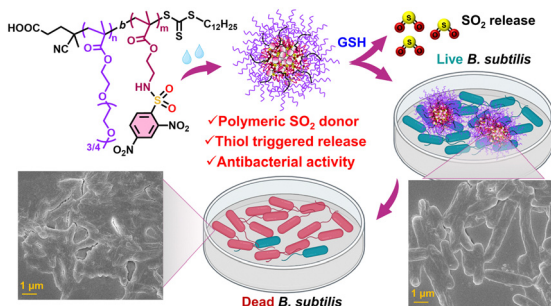
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## A broad-spectrum antibacterial hydrogel based on the synergistic action of Fmoc-phenylalanine and Fmoc-lysine in a co-assembled state

Bodhisattwa Das Gupta, Arpita Halder, Thangavel Vijayakanth, Nandita Ghosh, Ranik Konar, Oindrilla Mukherjee, Ehud Gazit\* and Sudipta Mondal\*

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## A chemically engineered water-soluble block copolymer for redox responsive SO<sub>2</sub> release in antibacterial therapy

Anushree Mondal, Tanushree Mondal, Sayan Chattopadhyay, Subhamoy Jana, Arindam Banerjee\* and Priyadarsi De\*



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## Inhalable mucin-permeable nanomicelles deliver antibiotics for effective treatment of chronic pneumonia

Zitong Jiang, Shaohu Huo, Lei Qiao, Paiyu Lin, Ling Fu, Yaling Wu, Wenhong Li, Chenrong Bian, Yaoyao Li, Nan Li, Haiyan Cheng, Xuan Nie\* and Shenggang Ding\*

