

# Journal of Materials Chemistry B

Materials for biology and medicine

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### Cover

See Yi Hong, Huaxiao Yang

et al., pp. 775–798.

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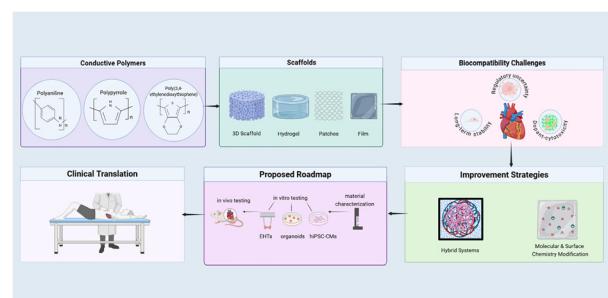
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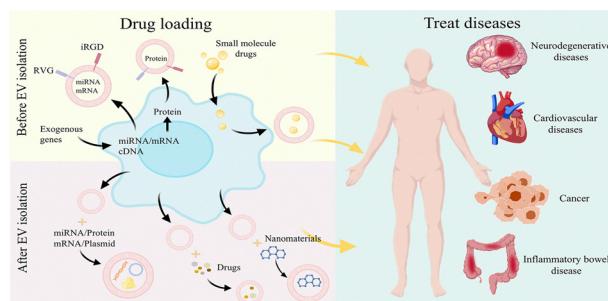
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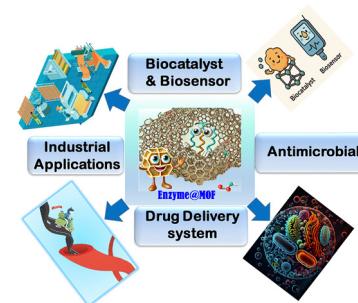
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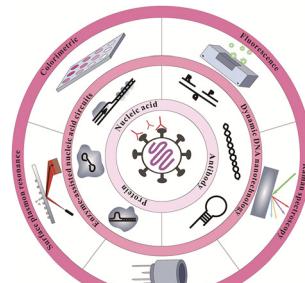
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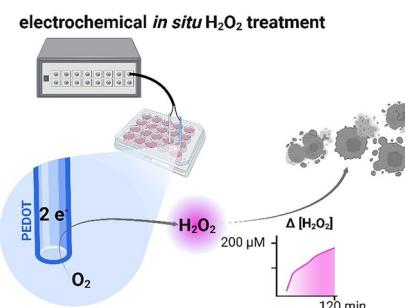


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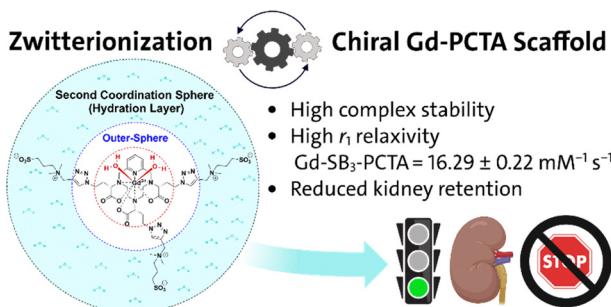
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Marie Jakešová,\* Jiří Ehlich, Sabine Erschen, Lea Nemeskeri, Verena Handl, Linda Waldherr\* and Eric D. Głowacki



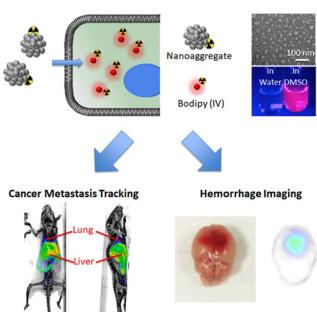
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**Zwitterionic MRI contrast agents with enhanced relaxivity, stability and reduced renal retention**

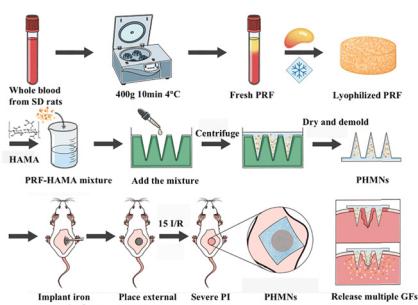
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**Turn-on near-infrared fluorescence/positron emission tomography dual-modal probe for intracranial hemorrhage diagnosis**

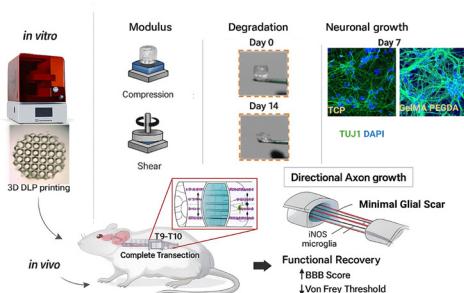
Jingjing Zhang, Jiayao Zhao, Huihui Lu, Haluk B. Sayman, Feifei An,\* Richard Ting\* and Wei Qu\*

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**A platelet-rich fibrin loaded microneedle patch for pressure injury repair**

Liping Huang, Bo Li, Shiqi Wen, Jinlu Liu, Bo Liu, Ying Hao,\* Yuwen Chen\* and Ka Li\*

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**Microchannel-containing hydrogel scaffolds enabled functional recovery in the absence of cells and bioactive molecules following spinal cord injury**

Vaibavi Srirangam Ramanujam, Kieran Lau, Chongquan Huang, Christy Kwokdinata, Paula Nunes de Oliveira, Wei Ju, Laurent David\* and Sing Yian Chew\*



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## Efficient and low-toxicity polymethacrylate guanidine salts for suppressing plant pathogenic fungi in soil: a case study of banana Fusarium wilt

Yaling Lin,\* Haojie Zhao, Haiping Fang, Yao Qiu and Anqiang Zhang\*

### Polymethacrylate Guanidine Salts (PGSs):

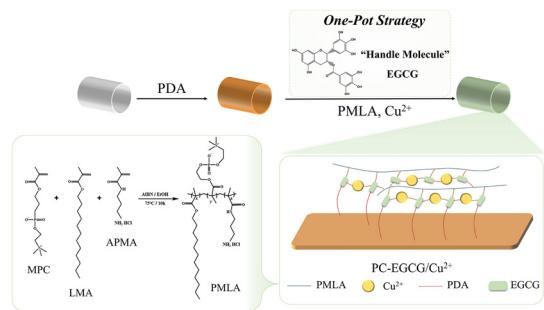
- Simple synthesis
- Well adsorption & Low toxicity in soil
- Selective inhabitation to fungi (Foc4) in soil



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## A protective coating for blood-contacting materials by the combination of passive antifouling and active nitric-oxide generation

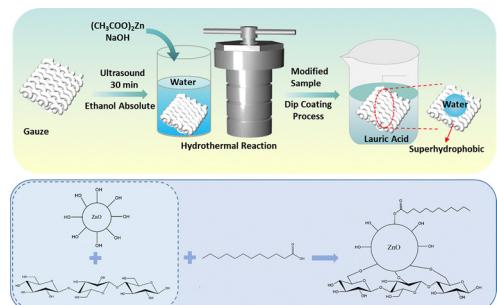
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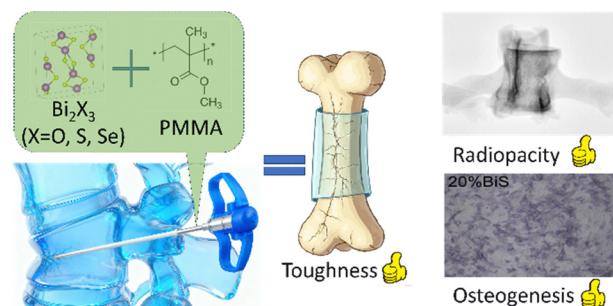
Zhaoxia Hou, Won-Chun Oh,\* XueYing Yang, Wenli Zhang, Chaogang Zhou, Guorong Liu, Jiayue Chen, Wenjing Liu, Yangguang Song and Jingjing Zhao\*



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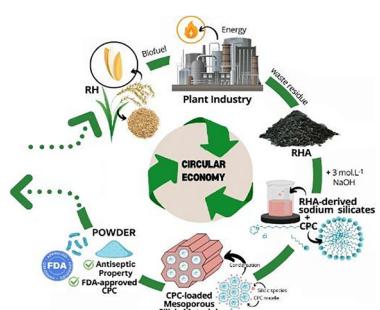
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Tong-Guang Xu, Ling-Xuan Gao, Yong Liu, Deng Chen, Feng Zhang,\* Jing-Hui He\* and Bin Meng\*



## PAPERS

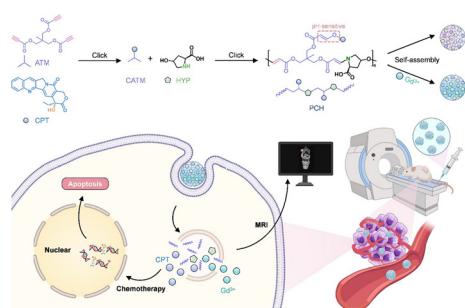
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### Upcycling rice husk ash into antiseptic-encapsulated ordered mesoporous silica materials for antimicrobial applications

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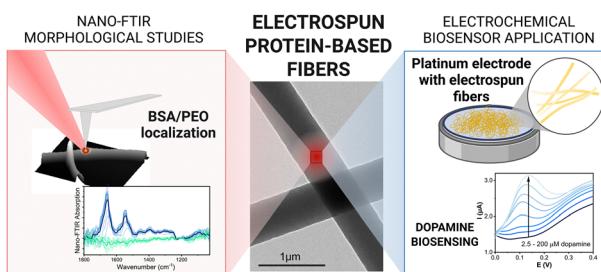
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### Metal-ion-driven self-assembly of sequence-controlled polyprodrugs for pH-responsive tumor theranostics

Daquan Wang,\* Jiali Wang, Yunpeng Luo, Gang Tan and Weixun Duan

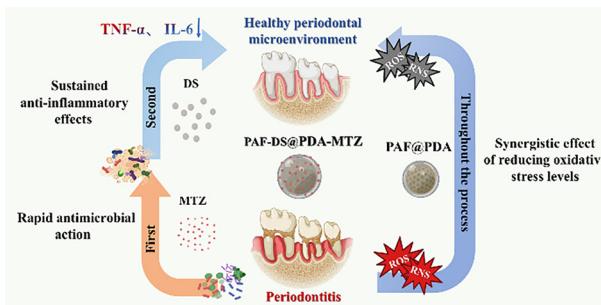
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### Electrospun protein nanofibers with nanoscale morphological control for dopamine biosensing

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### Porous aromatic framework-based sequential therapeutic strategy for the treatment of periodontitis

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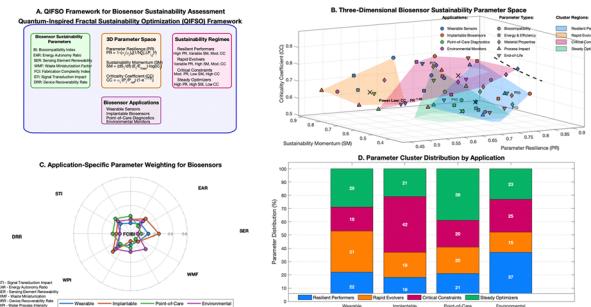


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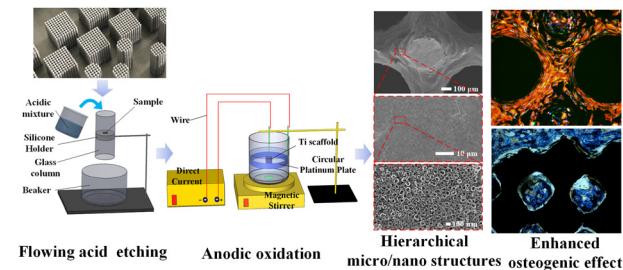
Navid Rabiee\* and Mohammad Rabiee



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## Enhancing the osteogenic capability of additively manufactured Ti6Al4V scaffolds: uniform internal/external composite coating while maintaining mechanical performance

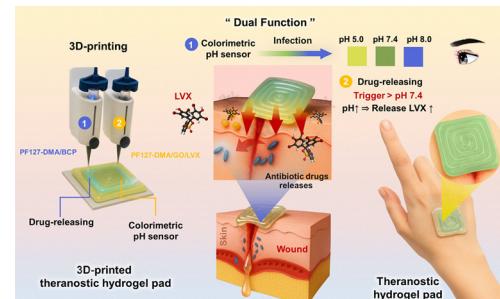
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## Dual-functional 3D-printed hydrogels for pH-responsive wound monitoring and on-demand therapy

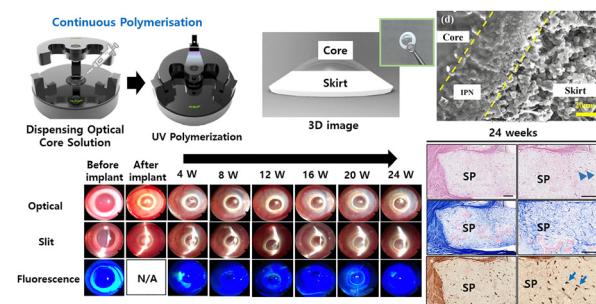
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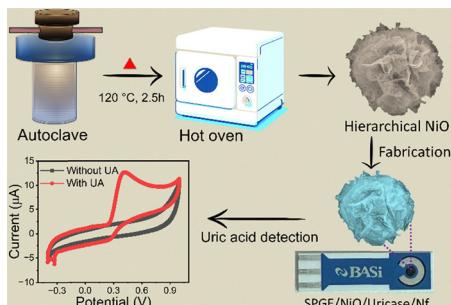
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Tae-Hyun Kim, Jae Hong Park, Eun Ji Choi, Do-Sun Jeong, Joong-Hyun Kim and Chul Min Kim\*



## PAPERS

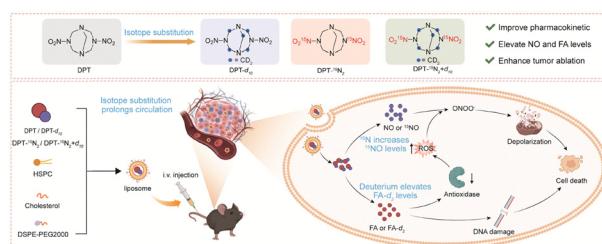
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### High-performance uric acid detection using a hierarchical NiO nanostructure-based biosensor

Rafiq Ahmad,\* Aisha Akhtar, Vandana Nagal, Abdullah, Mohd Sadiq, Akil Ahmad, Mohammed B. Alshammari and Byeong-Il Lee\*

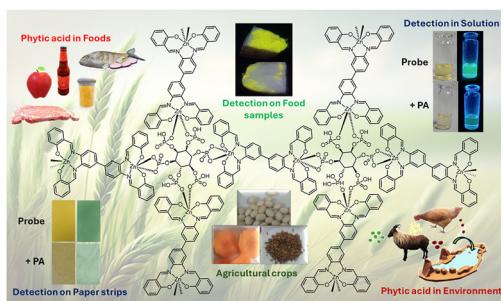
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### Enhancing the anticancer efficacy of a nitric oxide and formaldehyde co-donor through isotope substitution

Ziyao Zhao, Yu Zhang,\* Chunyuan Hou, Jun Wan, Peicheng Wang, Xijie Feng and Jun Luo\*

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Sourav Mondal and Nilanjan Dey\*

