

Journal of Materials Chemistry B

Materials for biology and medicine

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Cover

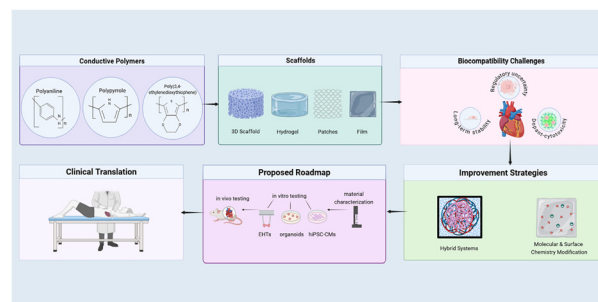
See Yi Hong, Huaxiao Yang *et al.*, pp. 775–798.
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REVIEWS

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Evaluating and improving biocompatibility of conductive polymers for cardiac tissue engineering

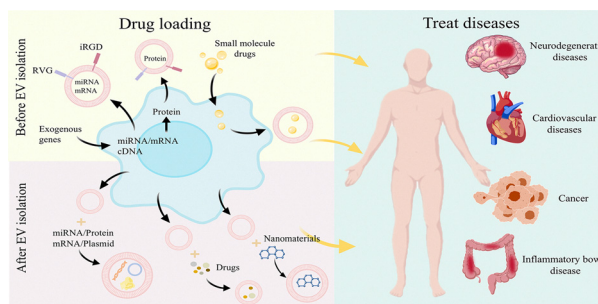
Joel Aboagye, Marcella Edwards, Jing Ge, Yi Hong* and Huaxiao Yang*



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Current research into novel nano-delivery carriers based on exosomes: preparation, targeted enhancement, delivery mechanism and clinical application

Lin Zhu, Jinqi Qu, Qiaoji Tian, Song Qin, Zongxi Xu, Jian Zhang, Chenyang Lu* and Wenjun Li*



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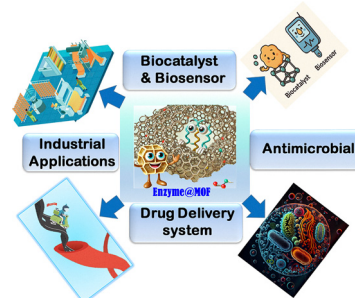


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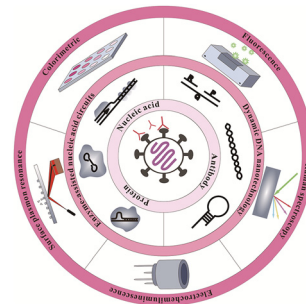
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Home-used coronavirus sensors powered by isothermal amplification

Linyao Wang, Chiliang Lin, Yujing Chuai, Qiuyang Zhang, Sihan Qin, Zewei Luo* and Yongxin Li*

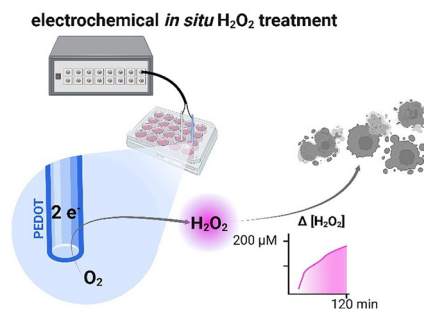


COMMUNICATION

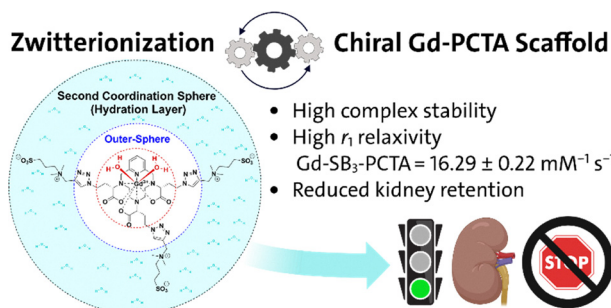
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Continuous electrochemical H₂O₂ delivery for cancer cell treatment

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



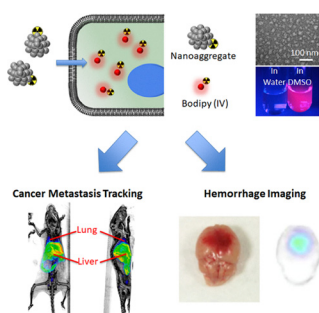
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Zwitterionic MRI contrast agents with enhanced relaxivity, stability and reduced renal retention

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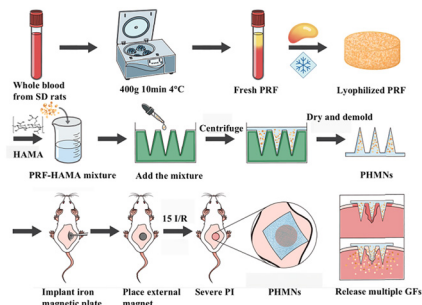
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Turn-on near-infrared fluorescence/positron emission tomography dual-modal probe for intracranial hemorrhage diagnosis

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

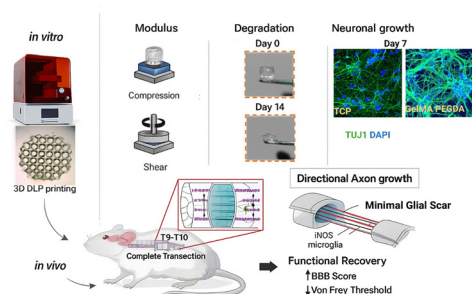
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A platelet-rich fibrin loaded microneedle patch for pressure injury repair

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*



PAPERS

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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):

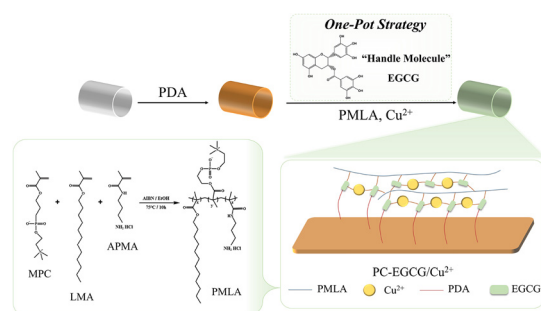
- Simple synthesis
- Well adsorption & Low toxicity in soil
- Selective inhabitation to fungi (Foc4) in soil



965

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

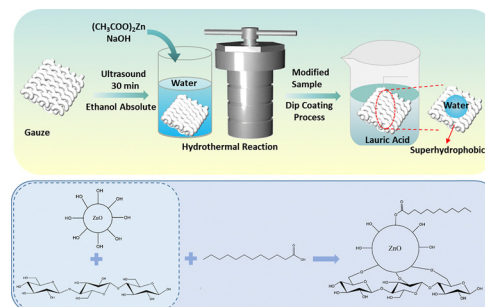
Zian Wang, Shiyu Yao, Yanan Wang, Lietao Wang, Tiantian Zheng, Hui Yan, Lu Zhang,* Rifang Luo, Jin Wang and Yunbing Wang*



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The characteristic impact of a hydrophobic medical gauze modified with lauric acid–ZnO and its antimicrobial behavior and wound healing properties

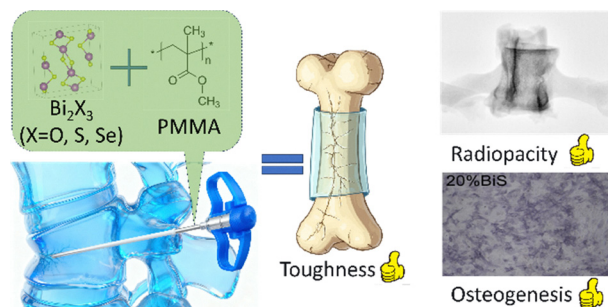
Zhaoxia Hou, Won-Chun Oh,* XueYing Yang, Wenli Zhang, Chaogang Zhou, Guorong Liu, Jiayue Chen, Wenjing Liu, Yangguang Song and Jingjing Zhao*



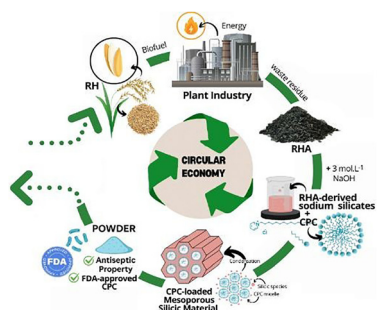
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Bismuth chalcogenides: multifunctional enhancement of radiopacity, mechanical resilience, and osteogenesis in PMMA bone cements for vertebroplasty

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



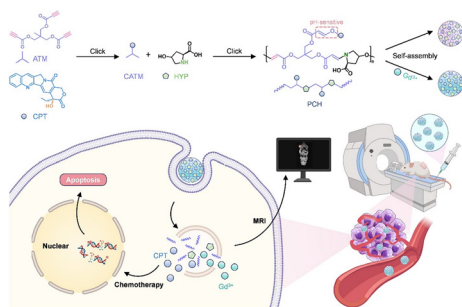
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Upcycling rice husk ash into antiseptic-encapsulated ordered mesoporous silica materials for antimicrobial applications

Glenn Ruel F. Maujon, Zuzana Neščáková, Agnieszka Witecka, Diane Rébiscoul, Noelia M. Sanchez-Ballester, Julien Schmitt, Edison Limbaga, Masayoshi Fujii, Nathalie Marcotte, Corine Gérardin, Raymond V. Rivera-Virtudazo* and Gauthier Rydzek*

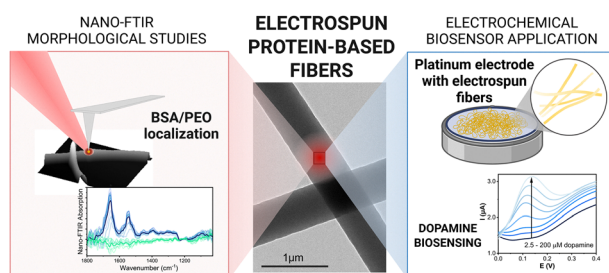
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Metal-ion-driven self-assembly of sequence-controlled polyprodrugs for pH-responsive tumor theranostics

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

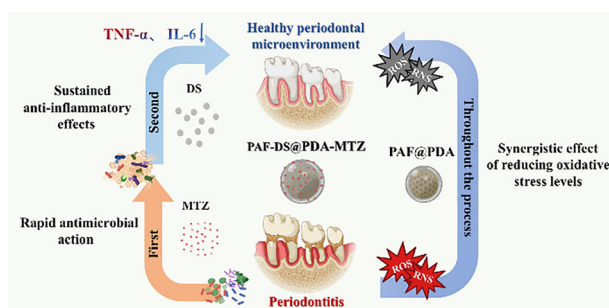
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Electrospun protein nanofibers with nanoscale morphological control for dopamine biosensing

Katarzyna Kolodzinska,* Sylwia Baluta, Adrian Cernescu, Magdalena Wojtas, Maciej Lipok, Joanna Olesiak-Bañska, Joanna Cabaj and Lech Sznitko*

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

Fuming Yang, Enpeng Xi, Yun Zhao, Gang Wang,* Nan Gao* and Guangshan Zhu



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Quantum-inspired fractal sustainability optimization for next-generation biosensor development

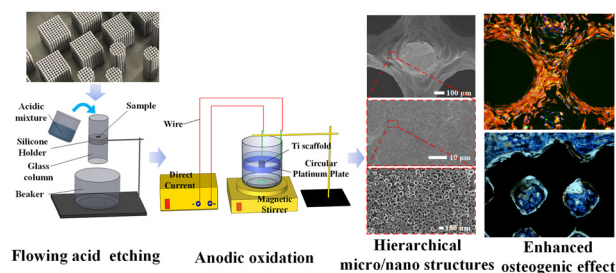
Navid Rabiee* and Mohammad Rabiee



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

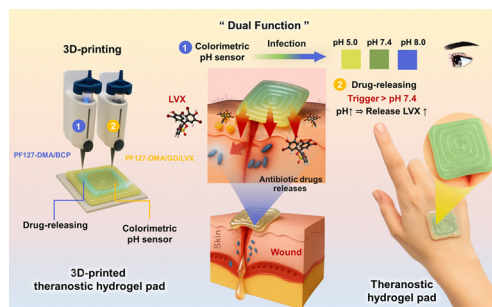
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Dual-functional 3D-printed hydrogels for pH-responsive wound monitoring and on-demand therapy

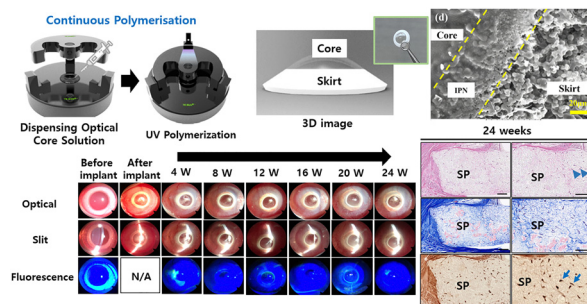
Thitiyaporn Phookum, Tatiya Siripongpreda, Karl Albright Tiston, Pawinee Rerknimitr, Charles S. Henry, Benjaporn Narupai and Nadnudda Rodthongkum*



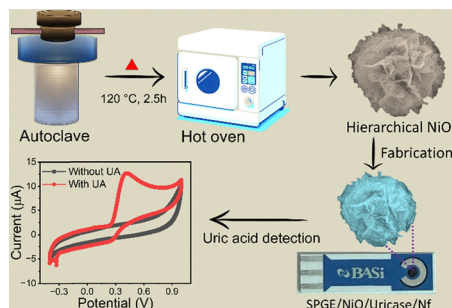
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Enhanced fabrication of dual-compartment artificial cornea C-Clear via precision moulding and continuous polymerisation: biocompatibility and functional efficacy in rabbit model

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



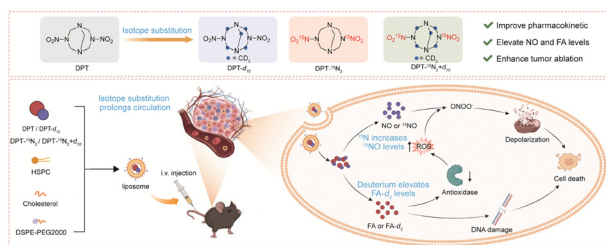
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High-performance uric acid detection using a hierarchical NiO nanostructure-based biosensor

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

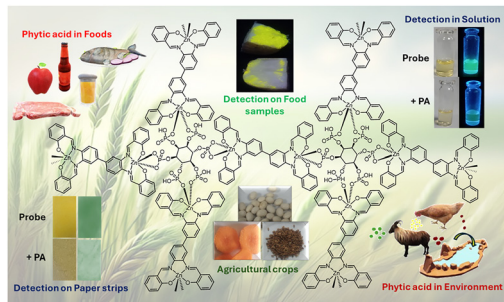
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Enhancing the anticancer efficacy of a nitric oxide and formaldehyde co-donor through isotope substitution

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

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Coordination-induced self-assembly of metallosalens enables sustainable monitoring of phytic acid in agricultural foods

Sourav Mondal and Nilanjan Dey*

