

Journal of Materials Chemistry B

Materials for biology and medicine

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Cover

See Weidong Fei,
Mengdan Zhao
et al., pp. 742–762.
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2025, 13, 742.

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**2024 Journal of Materials Chemistry Lectureship
winner: Raphaële Clément, University of California,
Santa Barbara, United States**



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**2024 Journal of Materials Chemistry Lectureship
runners-up: Maxx Arguilla, University of California,
Irvine, United States, and Phillip Milner, Cornell
University, United States**





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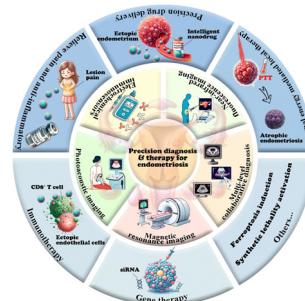


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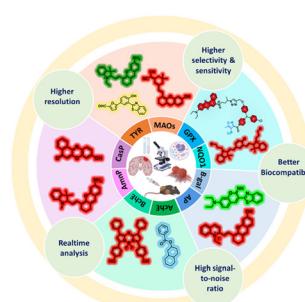
Yujie Peng, Meng Zhang, Jingjing Yan, Rong Wang, Yu Xin, Xiaoling Zheng, Libo Zhu, Weidong Fei* and Mengdan Zhao*



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Recent progress towards the development of fluorescent probes for the detection of disease-related enzymes

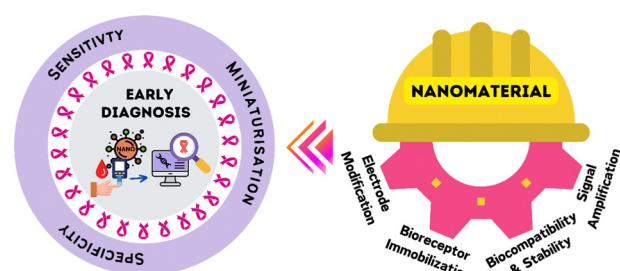
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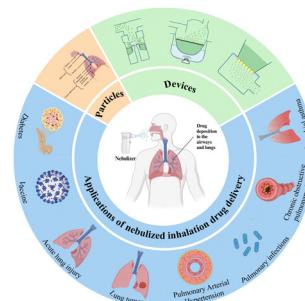
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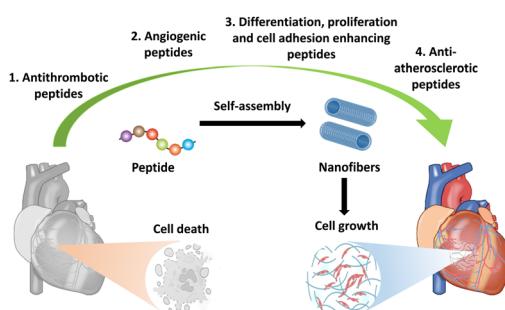
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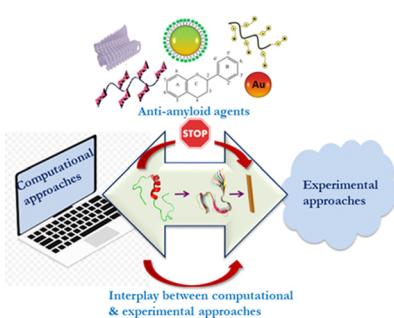
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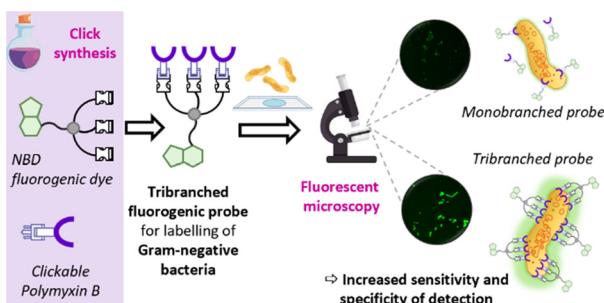
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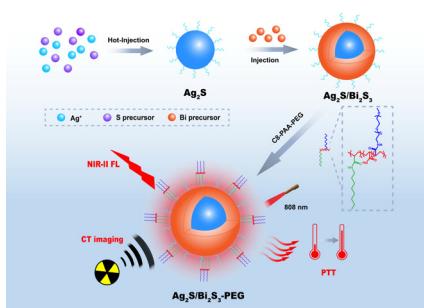
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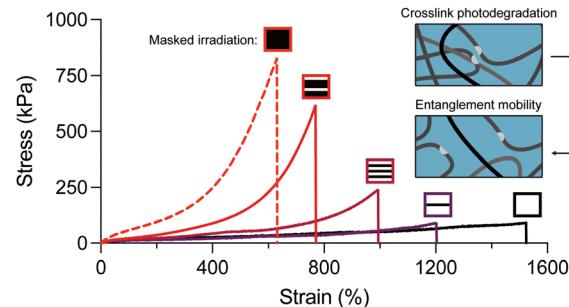


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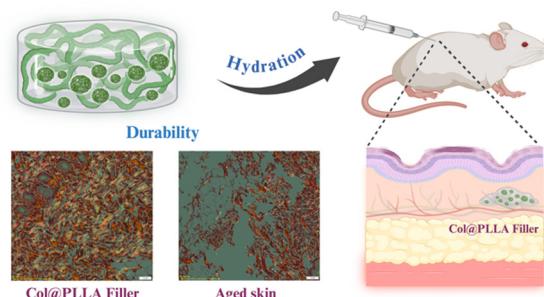
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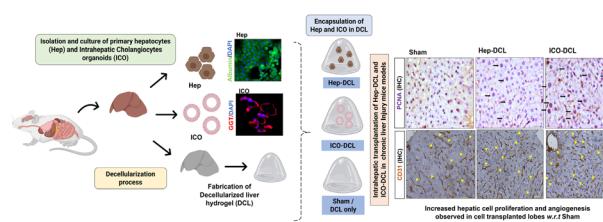
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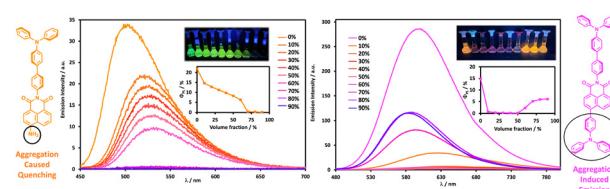
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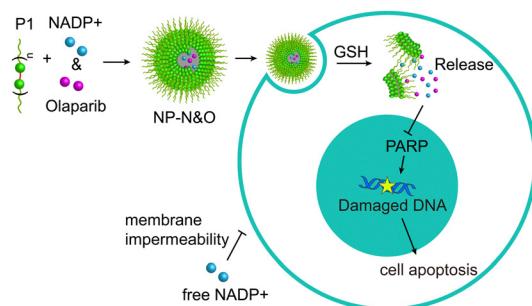
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Photocrosslinkable starch cinnamyl ethers as bioinspired bio-based polymers

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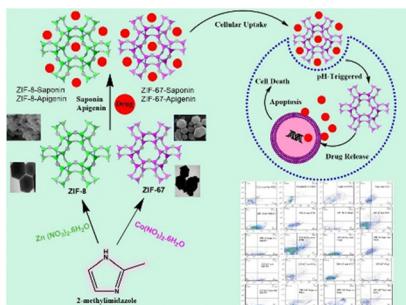
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Enhancing PARP inhibitor efficacy using reduction-responsive nanoparticles encapsulating NADP+

Hao Chen, Fan Tan, Yukui Zhang, Bingteng Xie* and Aiqin Luo*

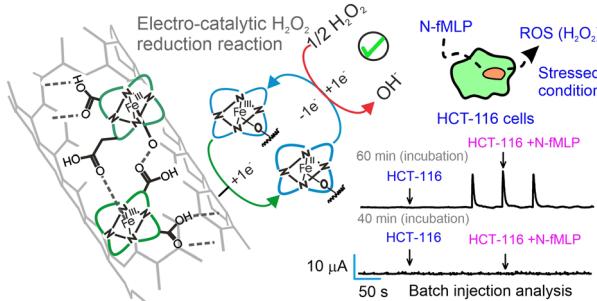
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Bioactive zeolitic imidazolate framework nanoconjugates as synergistic drug delivery agents for cancer nanotherapeutics

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Hemozoin anchored MWCNTs for mediated reduction of hydrogen peroxide and real-time intracellular oxidative stress monitoring in colon cancer cells

Sakthivel Srinivas, Mouliganesh Sekar, Kavitha Thirumurugan and Annamalai Senthil Kumar*

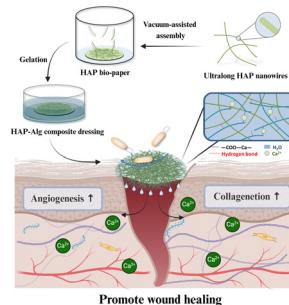


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A composite dressing combining ultralong hydroxyapatite nanowire bio-paper and a calcium alginate hydrogel accelerates wound healing

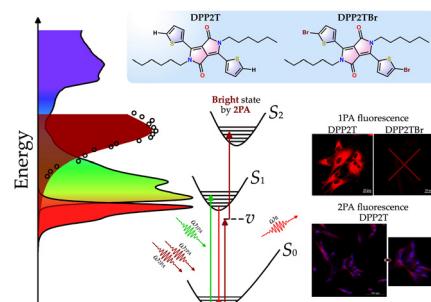
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Advancements in organic fluorescent materials: unveiling the potential of peripheral group modification in dithienyl-diketopyrrolopyrrole derivatives for one- and two-photon bioimaging

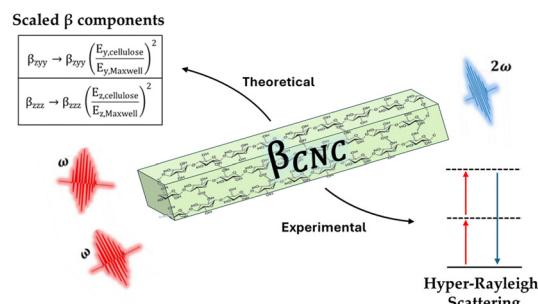
Leandro H. Zucolotto Cocca,* João V. P. Valverde, Celisnolia M. Leite, Natália S. Moreno, Alfredo L. Neto, Andreia G. Macedo, Sebastião Pratavieira, Daniel L. Silva, Paula C. Rodrigues, Valtencir Zucolotto, Cleber R. Mendonça and Leonardo De Boni



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First hyperpolarizability of cellulose nanocrystals: an experimental and theoretical investigation

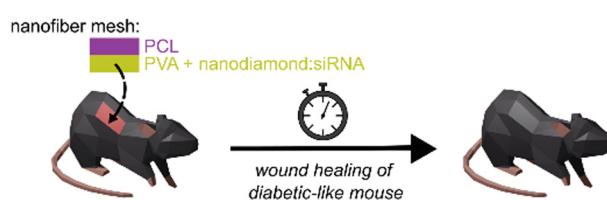
Thibaut Legat, François Mairesse, Ahmet R. Dok, Yovan de Coene, Wim Thielemans, Benoît Champagne* and Stijn Van Cleuvenbergen*



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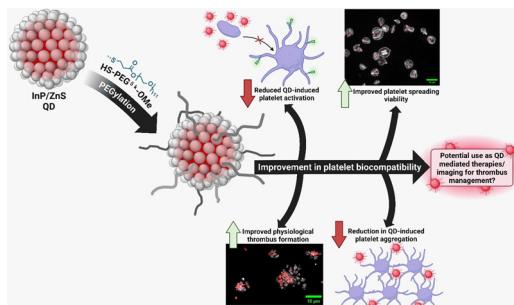
Topical siRNA therapy of diabetic-like wound healing

Eva Neuhöferova, Marek Kindermann, Matej Buzgo, Karolina Vocetkova, Dalibor Panek, Petr Cigler* and Veronika Benson*



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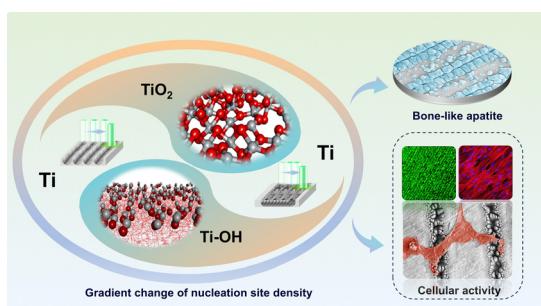
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PEGylation of indium phosphide quantum dots prevents quantum dot mediated platelet activation

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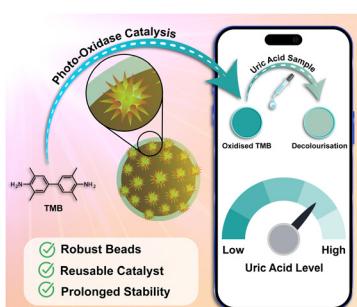
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Quantitative features of osteo-bioactive Ti surfaces at the atomic/molecular level

Fengxiong Luo, Dongxuan Li, Yu Yang, Jiajun Liu, Ruiqi Mao, Yawen Huang, Jian Lu, Xiangdong Zhu, Kefeng Wang,* Yujiang Fan and Xingdong Zhang

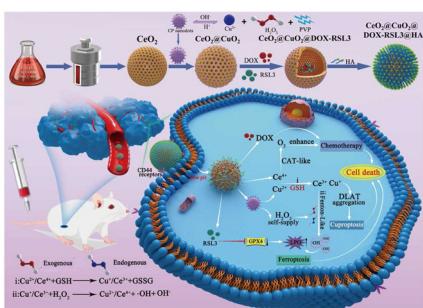
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In situ fabricated gold nanostars on hydrogel beads as photo-oxidase mimics for rapid and sustainable POCT of uric acid

Tanushree Das, Saurav Das and Debabratim Das*

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Tumor microenvironment-regulated nanoplatform for enhanced chemotherapy, cuproptosis and nonferrous ferroptosis combined cancer therapy

Xiangyu Meng, Lu Tian,* Jingmei Zhang, Jiaoyu Wang, Xuewei Cao, Zunfu Hu, Yunqiang Sun,* Zhichao Dai* and Xiuwen Zheng*



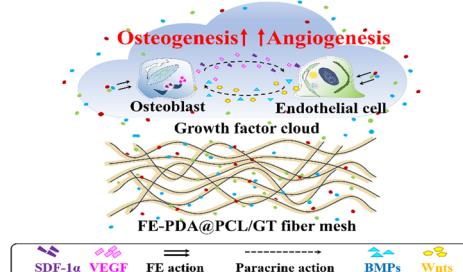
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Enhanced osteo–angiogenic coupling by a bioactive cell-free fat extract (CEFFE) delivered through electrospun fibers

Donghong Li, Tingting Xu, Xiaoli Wang, Qiong Xiao, Wenjie Zhang, Fen Li, Hao Zhang, Bei Feng* and Yanzhong Zhang*

FE-mediated osteo–angiogenic coupling



CORRECTION

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Correction: Hedgehog-inspired immunomagnetic beads for high-efficient capture and release of exosomes

Jia Cheng, Nanhang Zhu, Yujia Zhang, Yue Yu, Ke Kang, Qiangying Yi* and Yao Wu*

