

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. Image reproduced by permission of Weidong Fei from *J. Mater. Chem. B*, 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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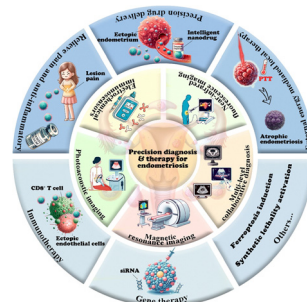
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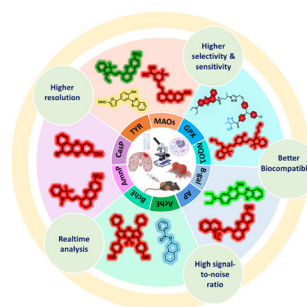
Yujie Peng, Meng Zhang, Jingjing Yan, Rong Wang,
Yu Xin, Xiaoling Zheng, Libo Zhu, Weidong Fei* and
Mengdan Zhao*

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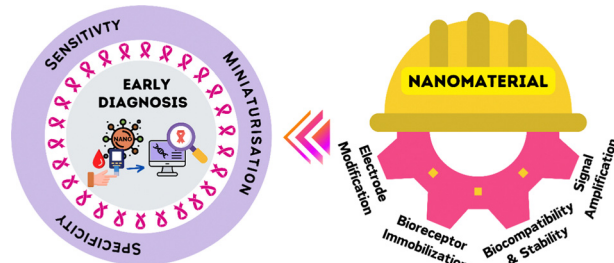
Recent progress towards the development of fluorescent probes for the detection of disease-related enzymes

Lopamudra Mishra and Monalisa Mishra*



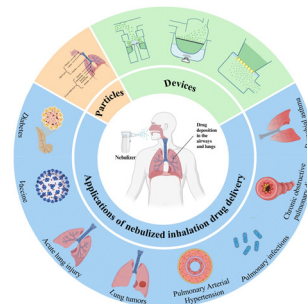
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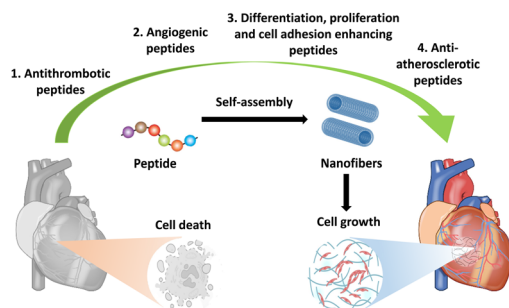
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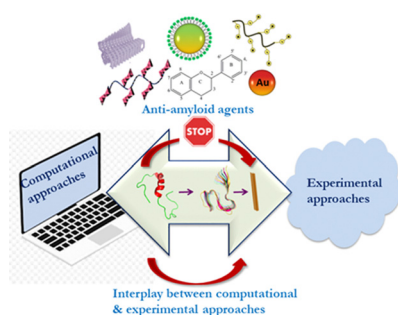
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Dhriti Shenoy, Sowmya Chivukula, Nursu Erdogan, Enrica Chiesa,* Sara Pellegrino,* Meital Rechtes* and Ida Genta

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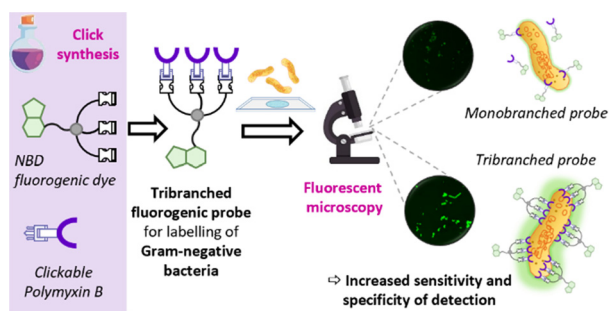


From experimental studies to computational approaches: recent trends in designing novel therapeutics for amyloidogenesis

Pooja Ghosh,* Agnibin Kundu and Debabani Ganguly*

COMMUNICATIONS

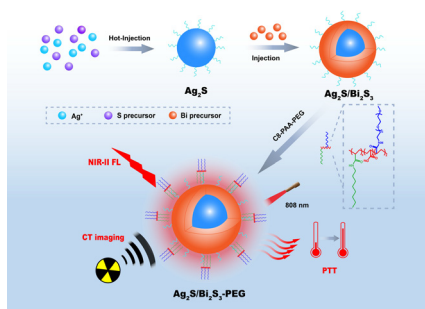
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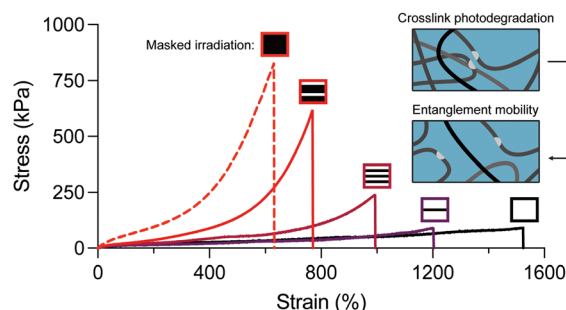
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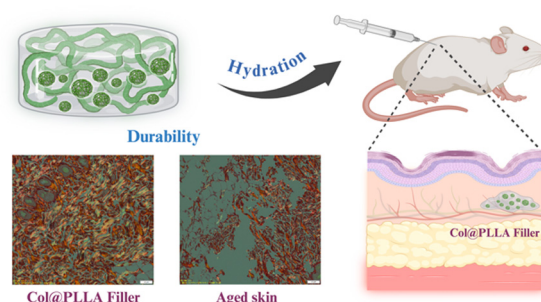
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Engineered collagen/PLLA composite fillers to induce rapid and long-term collagen regeneration

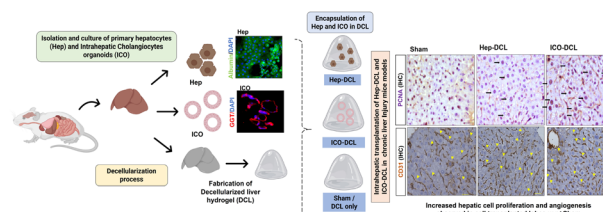
Shuhua Chang, Miaoran Zhao, Wenxia Gao,* Jun Cao and Bin He*



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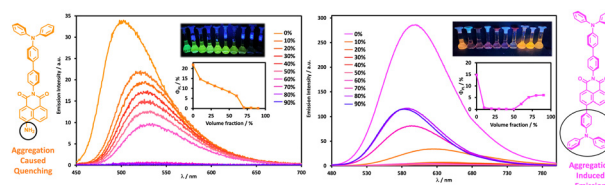
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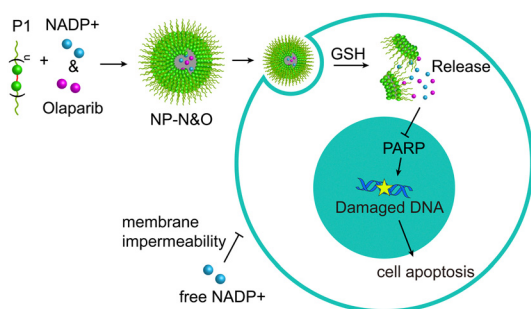
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Photocrosslinkable starch cinnamyl ethers as bioinspired bio-based polymers

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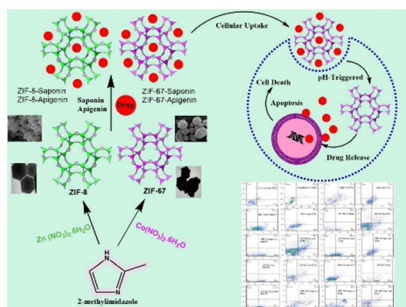
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Enhancing PARP inhibitor efficacy using reduction-responsive nanoparticles encapsulating NADP+

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

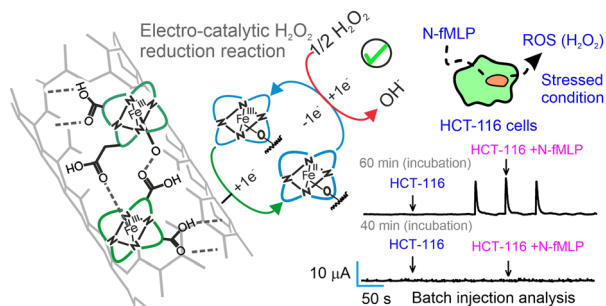
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Bioactive zeolitic imidazolate framework nanoconjugates as synergistic drug delivery agents for cancer nanotherapeutics

Seyyed Mojtaba Mousavi, Wei-Hung Chiang* and Ahmad Gholami*

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

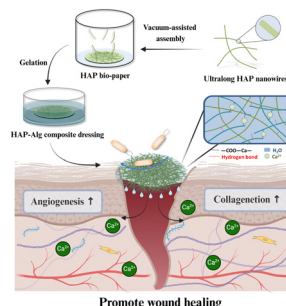
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A composite dressing combining ultralong hydroxyapatite nanowire bio-paper and a calcium alginate hydrogel accelerates wound healing

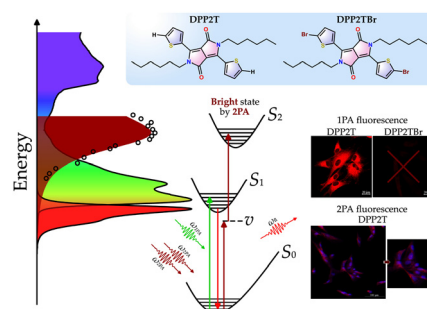
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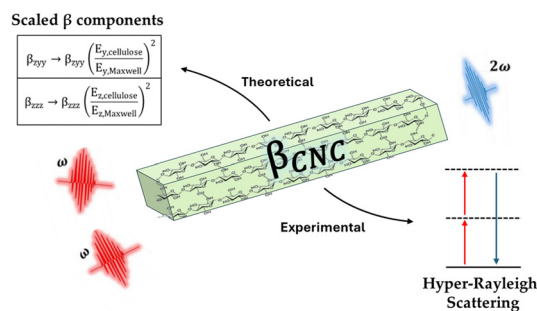
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First hyperpolarizability of cellulose nanocrystals: an experimental and theoretical investigation

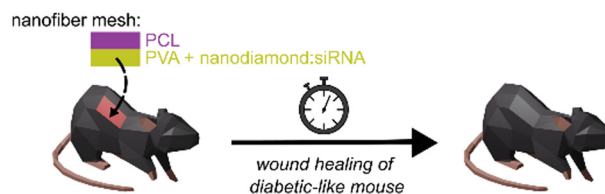
Thibaut Legat, François Mairesse, Ahmet R. Dok, Yovan de Coene, Wim Thielemans, Benoît Champagne* and Stijn Van Cleuvenbergen*



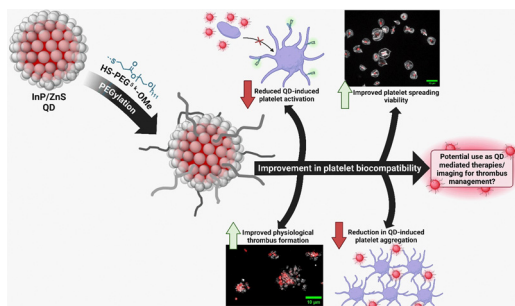
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Topical siRNA therapy of diabetic-like wound healing

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



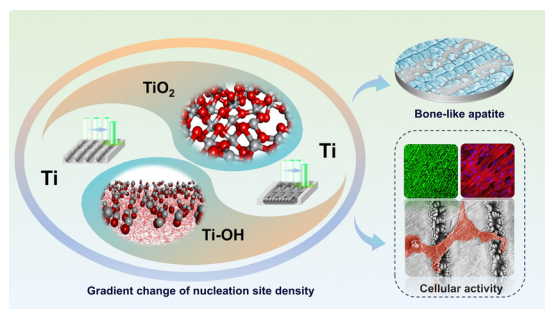
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PEGylation of indium phosphide quantum dots prevents quantum dot mediated platelet activation

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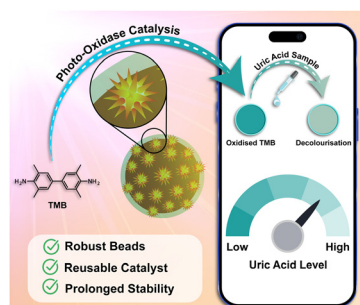
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Quantitative features of osteo-bioactive Ti surfaces at the atomic/molecular level

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

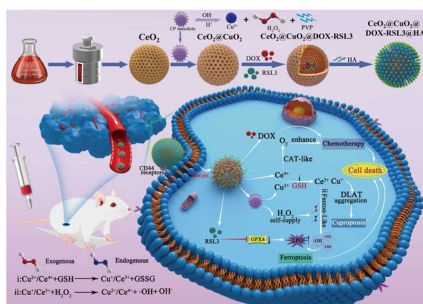
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In situ fabricated gold nanostars on hydrogel beads as photo-oxidase mimics for rapid and sustainable POCT of uric acid

Tanushree Das, Saurav Das and Debapratim 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*



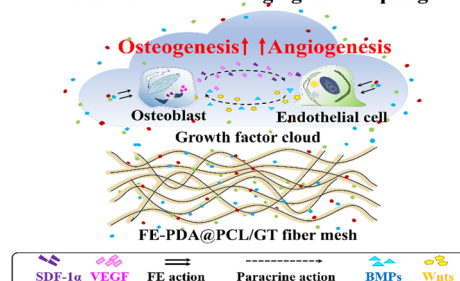
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Enhanced osteo–angiogenic coupling by a bioactive cell-free fat extract (CEFFE) delivered through electrospun fibers

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*

