# Journal of Materials Chemistry B

Materials for biology and medicine

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See Junyu Chen, Jian Wang et al., pp. 1495-1511. Image reproduced by permission of Jian Wang from J. Mater. Chem. B, 2024, 12, 1495.

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1404

Magnetic two-dimensional nanocomposites for multimodal antitumor therapy: a recent review

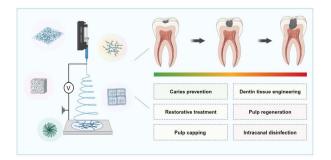
Ying Yuan, Bo Chen, Luping Song, Xingxing An, Qinrui Zhang, Hao Lu, Chang Ming Li\* and Chunxian Guo\*



#### 1429

Electrospun nanofibers applications in caries lesions: prevention, treatment and regeneration

Xiangshu Chen, Zhenqi Liu, Rui Ma, Junzhuo Lu\* and Linglin Zhang\*





# **RSC Applied Polymers**

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Elemental answers

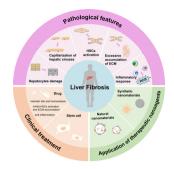
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#### **REVIEWS**

#### 1446

Liver fibrosis: pathological features, clinical treatment and application of therapeutic nanoagents

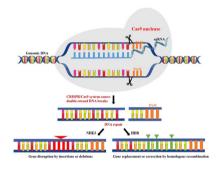
Lin Chen, Wenyan Guo, Chun Mao,\* Jian Shen\* and Mimi Wan\*



#### 1467

Advanced strategies for CRISPR/Cas9 delivery and applications in gene editing, therapy, and cancer detection using nanoparticles and nanocarriers

Adric Ru Khiing Hii, Xiaole Qi\* and Zhenghong Wu\*

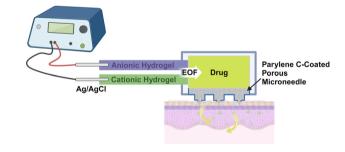


# COMMUNICATION

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Transdermal drug delivery using a porous microneedle device driven by a hydrogel electroosmotic pump

Gaobo Wang, Kosuke Kato, Izuru Aoki, Sae Ichinose, Daisuke Inoue, Soichiro Tottori and Matsuhiko Nishizawa\*

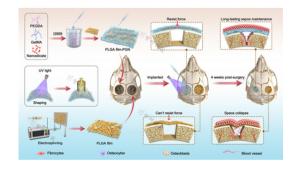


# **PAPERS**

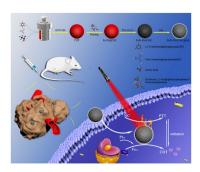
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Development of a rapid-shaping and user-friendly membrane with long-lasting space maintenance for guided bone regeneration

Yuting Wang, Xin Zhang, Shu Zhang, Guangmei Yang, Yuanyuan Li, Yilin Mao, Linxin Yang, Junyu Chen\* and Jian Wang\*



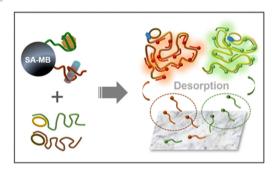
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# Precise design of dual active-site catalysts for synergistic catalytic therapy of tumors

Guodong Cheng, Fuying Chen, Shulian Li, Yu Hu, Zhichao Dai, Zunfu Hu, Zibao Gan, Yunqiang Sun\* and Xiuwen Zheng\*

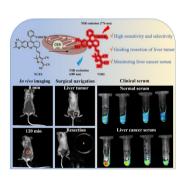
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# Template-controllable rolling circle amplification for dual protein sensitive analysis

Gang Wang, Shi Tang, Yixi Dong, Fangbo Zou, Jin Jiao\* and Yang Xiang\*

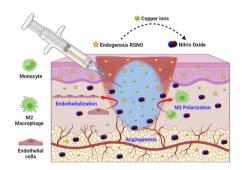
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# Carboxylesterase-activated near-infrared fluorescence probe for highly sensitive imaging of liver tumors

Renfeng Jiang, Yuqing Xia, Qian Liu, Hongshuai Zhang,\* Xuefeng Yang, Longwei He\* and Dan Cheng\*

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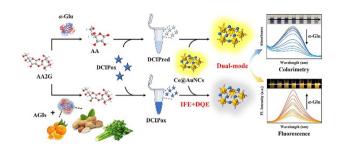
# Biocatalytic nitric oxide generating hydrogels with enhanced anti-inflammatory, cell migration, and angiogenic capabilities for wound healing applications

Phuong Le Thi, Dieu Linh Tran, Kyung Min Park, Simin Lee, Dong Hwan Oh and Ki Dong Park\*

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Fluorometric and colorimetric dual-mode sensing of α-glucosidase based on aggregation-induced emission enhancement of AuNCs

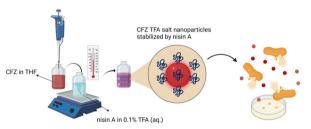
Songrui Li, Huifeng Zhang, Zhenzhen Huang and Qiong Jia\*



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Pre-formulation of an additive combination of two antimicrobial agents, clofazimine and nisin A, to boost antimicrobial activity

Mateo Flores Naranjo, Ajay Kumar, Poonam Ratrey and Sarah P. Hudson\*



#### Enhanced antimicrobial activity

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Synthesis and antibacterial properties of fluorinated biodegradable cationic polyesters

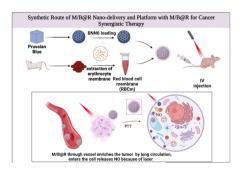
Zhao-Yue Li, Xiaoying Zhang, Yi-Lin Qian, Fu-Sheng Du\* and Zi-Chen Li\*

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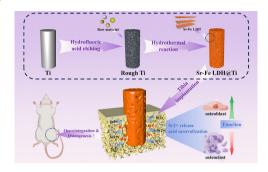
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Red cell membrane-coating Prussian blue for combined photothermal and NO gas therapy for nasopharyngeal carcinoma

Wenbo Wang, Zhaoyi Cheng, Hui Xing, Shihao Zhou, Qiaozhang Ye, Gaofei Xiong,\* Guanhai Wang\* and Dong Ma\*



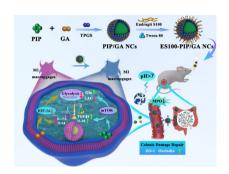
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Chenyu Liao, Dongcai He, Kaiwen Yin, Yuhung Lin, Yihan Chen, Ziqiang Zhang, Jing Zhang, Hongrong Luo, Xianchun Chen\* and Yunfeng Li\*

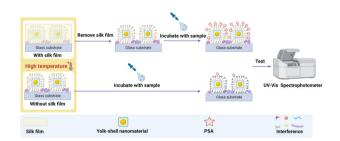
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# Colon-targeted piperine-glycyrrhizic acid nanocrystals for ulcerative colitis synergetic therapy via macrophage polarization

Xia Wu, Qian Zhang, Li Peng, Zonghua Tian, Guojing Gou,\* Wenbao Zuo\* and Jianhong Yang\*

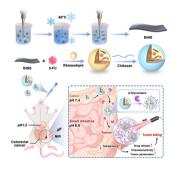
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# Plasmonic biochips with enhanced stability in harsh environments for the sensitive detection of prostate-specific antigen

I-Hsiu Yeh, Hui-Fang Shi, Evan Darius, Mei-Chin Lien, Yin-Cheng Lu, Congzhou Wang and Keng-Ku Liu\*

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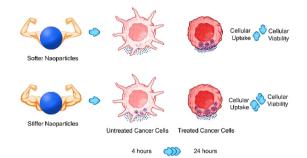
# **β-Glycosidase sensitive oral nanoparticles for** combined photothermal and chemo treatment of colorectal cancer

Jingning Zhou, Zegun Zhuang, Rui Gao, Ran Li and Yigang Chen\*

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Quantification and biological evaluation of  $Zn_xFe_{3-x}O_4$  nanoparticle stiffness in a drug delivery system of MCF-7 cancer cells

Hamzah Al-madani, Yiqian Yang, Moath Refat, Qingxin He, Hao Peng, Aiguo Wu\* and Fang Yang\*



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Effect of zwitterionic sulfobetaine incorporation on blood behaviours, phagocytosis, and in vivo biodistribution of pH-responsive micelles with positive charges

Chengwei Wang, Hao Liu, Hu Lin, Rui Zhong, Hao Li, Jiaxin Liu, Xianglin Luo and Meng Tian\*

