

Journal of Materials Chemistry B

Materials for biology and medicine

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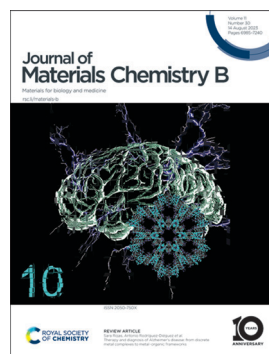
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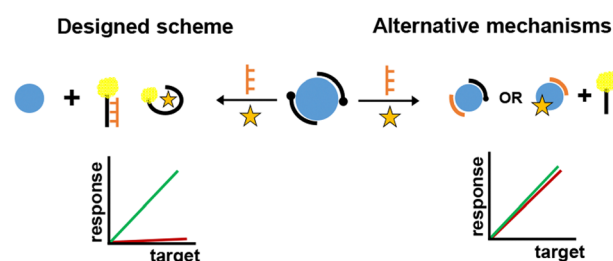
See Sara Rojas, Antonio Rodríguez-Diéguez *et al.*, pp. 7024–7040. Image reproduced by permission of Antonio Rodríguez-Diéguez from *J. Mater. Chem. B*, 2023, 11, 7024.

PERSPECTIVE

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Nanomaterials enabled and enhanced DNA-based biosensors

Stefen Stangherlin and Juewen Liu*

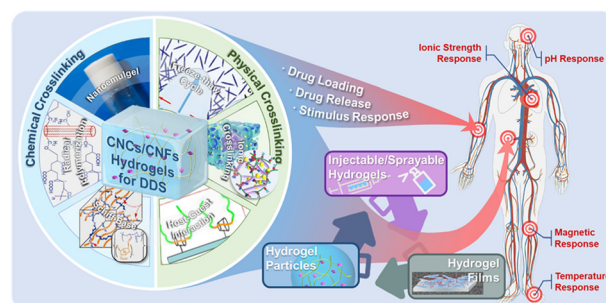


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Nanocellulose-based hydrogels for drug delivery

Yusen Ai, Zhongxin Lin, Wenqi Zhao,* Mei Cui, Wei Qi, Renliang Huang and Rongxin Su*



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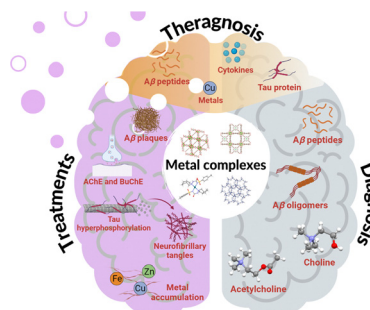


REVIEWS

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Therapy and diagnosis of Alzheimer's disease: from discrete metal complexes to metal–organic frameworks

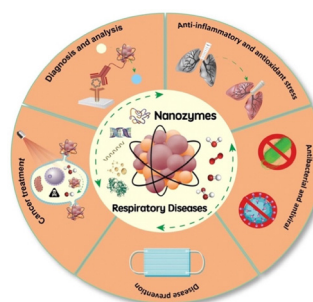
Amalia García-García, Sara Rojas* and Antonio Rodríguez-Diéguez*



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Advances and perspectives of nanozymes in respiratory diseases

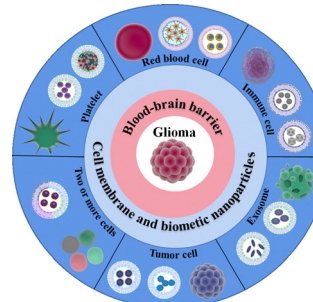
Shao-Bin He, Li-Yong Shi, Qiong-Hua Zheng, Yin Zhang, Wei Chen* and Yi-Ming Zeng*



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Application of cell membrane-functionalized biomimetic nanoparticles in the treatment of glioma

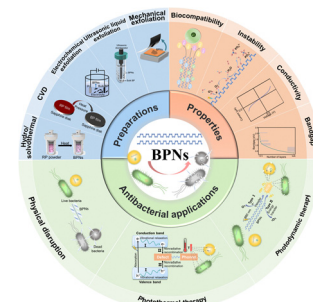
Guangchuan Zhang, Minghao Yao, Shanshan Ma, Kun Zhang, Yujue Wang, Zhimin Wang, Jiaheng Liang, Shan Dai, Ruimei Jin* and Fangxia Guan*



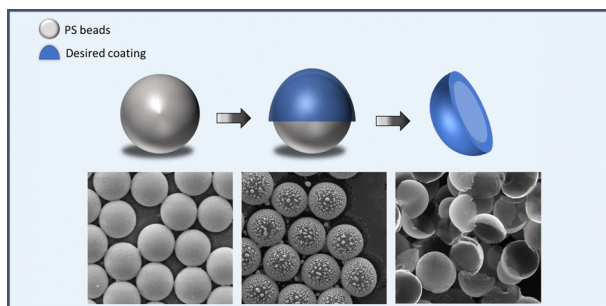
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Antibacterial black phosphorus nanosheets for biomedical applications

Yuanyuan Xu, Siyuan Chen, Yuxin Zhang, Can Wu, Lei Li, Xuefeng Hu, Jieyu Zhang* and Yunbing Wang



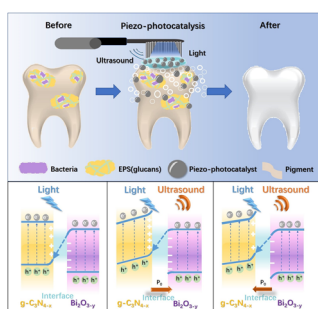
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Controlled synthesis of multifunctional dome-shaped micro- and nano-structures via a robust physical route for biological applications

Ganit Indech,* Lidor Geri, Chen Mordechai, Yarden Ben Moshe, Yitzhak Mastai, Orit Shefi and Amos Sharoni

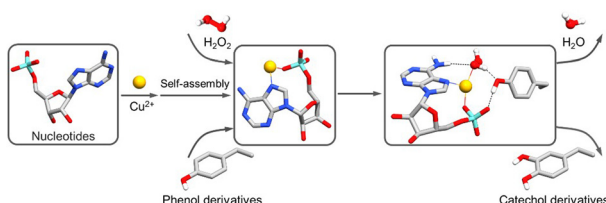
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Bifunctional defect mediated direct Z-scheme $g\text{-C}_3\text{N}_{4-x}/\text{Bi}_2\text{O}_{3-y}$ heterostructures with enhanced piezo-photocatalytic properties for efficient tooth whitening and biofilm eradication

Jiaxin He, Shaoyu Cui, Yanfeng Hou, Shujuan Liu,* Zijian Zhang, Mengjiao Zhao, Liangcan He,* Ranxu Wang and Shaoqin Liu*

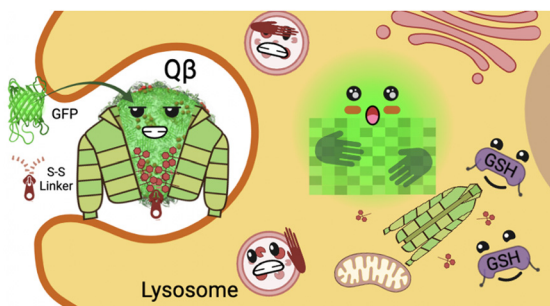
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A nucleotide-copper(II) complex possessing a monooxygenase-like catalytic function

Haifeng Wu, Shichao Xu, Peidong Du, Yuanxi Liu, Hui Li,* Haijun Yang, Ting Wang and Zhen-Gang Wang*

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Intracellular delivery of virus-like particles using a sheddable linker

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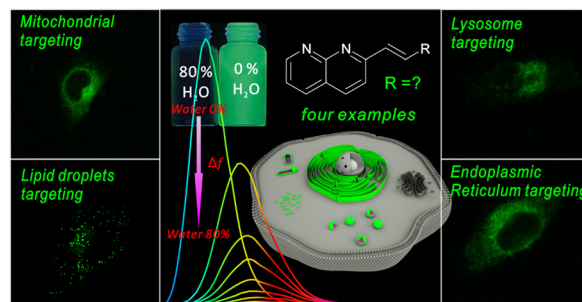


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Multiple organelle-targeted 1,8-naphthyridine derivatives for detecting the polarity of organelles

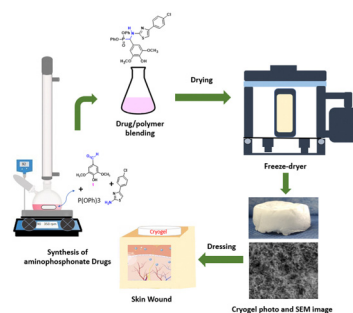
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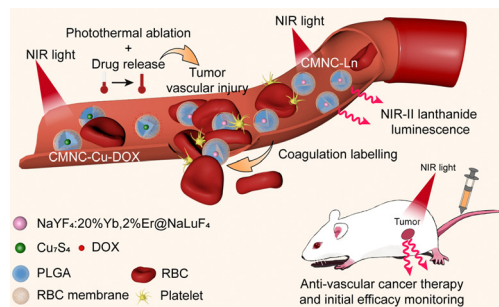
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An erythrocyte membrane-modified biomimetic synergistic nanosystem for cancer anti-vascular therapy and initial efficacy monitoring

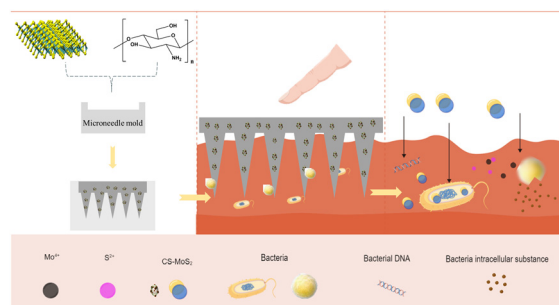
Jieying Zhang, Fang Li, Lili Su, Qian Hu, Jianfeng Li* and Xingjun Zhu*



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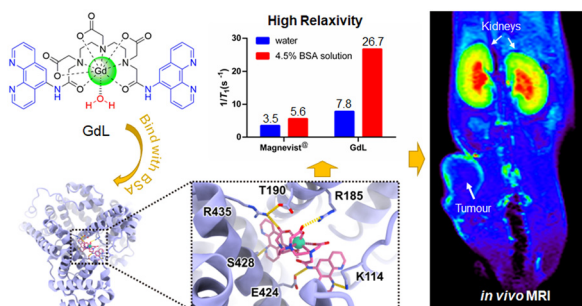
Investigation of the antibacterial properties of hyaluronic acid microneedles based on chitosan and MoS₂

Wenzhen Du, Xiaodan Li, Manyue Zhang, Guixia Ling* and Peng Zhang*



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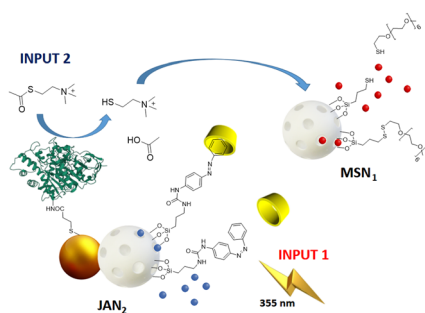
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A novel Gd³⁺ DTPA-bisamide complex with high relaxivity as an MRI contrast agent

Jiaxi Ru, Weiyuan Xu, Manchang Kou, Hu Dong, Xiaoliang Tang,* Yu Chen, Lingling Kang, Lixiong Dai* and Chao Liang*

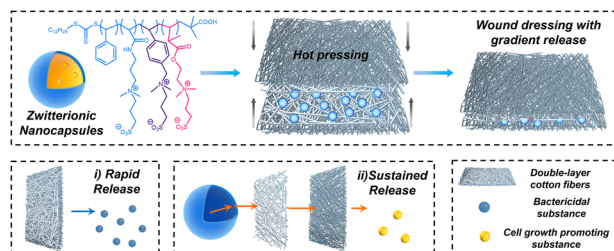
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An intercommunicated nanosystem for dual delivery

Beatriz Mayol, Ana Rodríguez, Anabel Villalonga, Carlos Anillo, Diana Vilela, Alfredo Sánchez, Paloma Martínez-Ruiz and Reynaldo Villalonga*

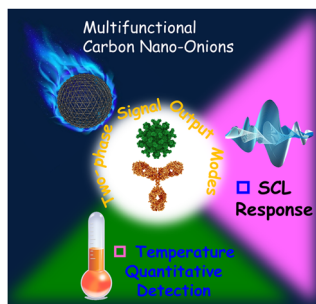
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Zwitterionic nanocapsule-based wound dressing with the function of gradient release of multi-drugs for efficient wound healing

Jiahui Zhou, Kaishun Xia,* Yuting Li, Shihua Mao, Yucong Gu, Mengjie Si, Shuaibing Wang, Guangyan Du,* Yisheng Xu, Dong Zhang, Si Yu Zheng* and Jintao Yang*

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Two-phase dual-signal-readout immunosensing platform based on multifunctional carbon nano-onions for ovarian cancer biomarker detection

Yitian Huang, Shupe Zhang, Yanjie Chen, Lihong Gao,* Hong Dai* and Yanyu Lin

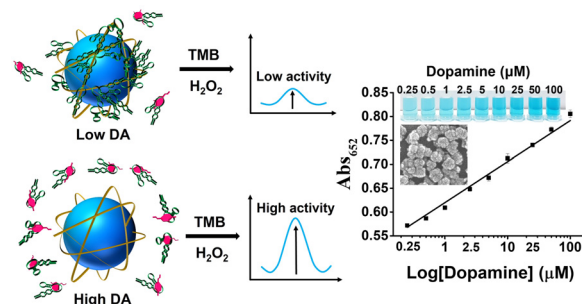


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Apta-sensor for selective determination of dopamine using chitosan-stabilized Prussian blue nanoparticles

Han Been Lee, Seong Eun Son and Gi Hun Seong*



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Glycopolymer-based multifunctional antibacterial hydrogel dressings for accelerating cutaneous wound healing

Qiuli Cheng, Zhihao Wang, Shumin Hu, Yi-Yang Peng, Rui Zhu, Leitao Zhang, Junbo Li* and Ravin Narain*

