

Journal of Materials Chemistry B

Materials for biology and medicine

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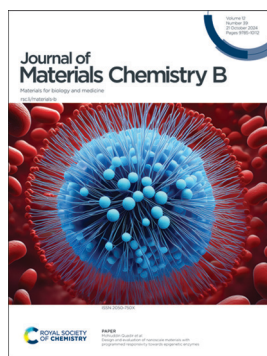
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Cover

See Johannes Gurke *et al.*, pp. 9894–9904.
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Inside cover

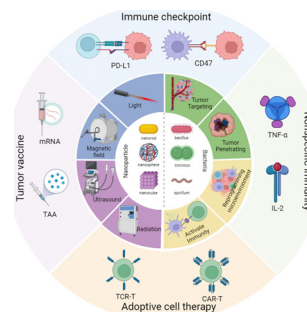
See Mohiuddin Quadir *et al.*, pp. 9905–9920.
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Nanomaterial combined engineered bacteria for intelligent tumor immunotherapy

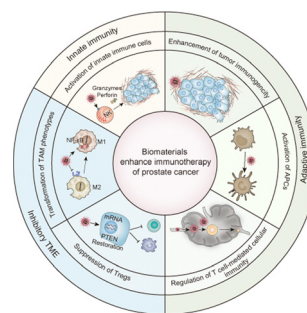
Shurong Qin, Guanzhong He and Jingjing Yang*



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Immunologically effective biomaterials enhance immunotherapy of prostate cancer

Siqi Liu, Hui Guo, Di Li* and Chunxi Wang*



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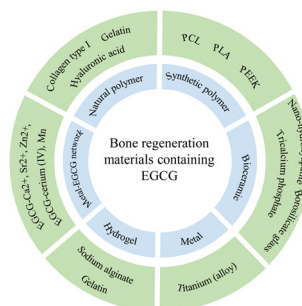
Fundamental questions
Elemental answers

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The recent progress of bone regeneration materials containing EGCG

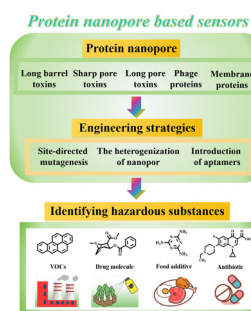
Yaoye Zhao, Guoding Cao, Zixin Wang, Desheng Liu, Liling Ren* and Dongyang Ma*



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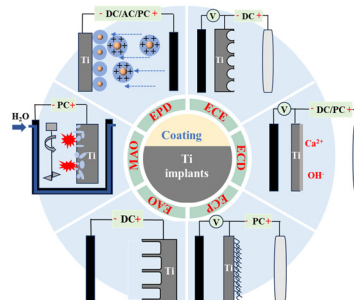
Yanhua Zhang, Chan Hu, Ronghui Liu,* Shujun He, Jie Yang, Wen Yao, Yi Li* and Xinrong Guo*



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Recent development and applications of electrodeposition biocoatings on medical titanium for bone repair

Jialong Yi, Ming Li, Jixiang Zhu, ZuHang Wang and Xiaoyan Li*

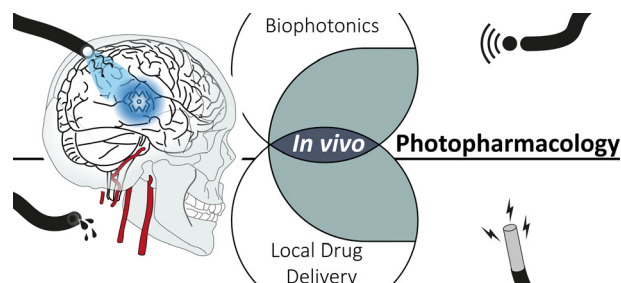


PERSPECTIVE

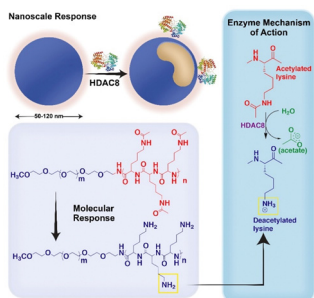
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In vivo photopharmacological inhibition of hippocampal activity via multimodal probes – perspective and opening steps on experimental and computational challenges

Johannes Gurke,* Alejandro Carnicer-Lombarte, Tobias E. Naegele, Anders K. Hansen and George G. Malliaras



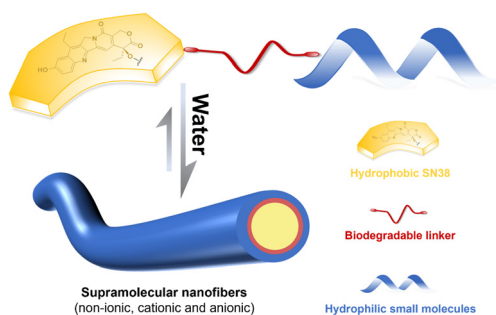
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Design and evaluation of nanoscale materials with programmed responsivity towards epigenetic enzymes

Priyanka Ray, Abbas Sedigh, Matthew Confeld, Lina Alhathooly, Kweeni Iduoku, Gerardo M. Casanola-Martin, Hai Pham-The, Bakhtiyor Rasulev, Yongki Choi, Zhongyu Yang, Sanku Mallik and Mohiuddin Quadir*

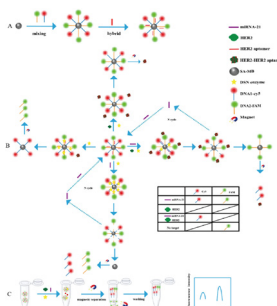
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Spontaneous assembly of a class of small molecule prodrugs directed by SN38

Zhenhai Tang, Wenning Lan, Kaiying Wen, Wenting Li, Tao Wang,* Dongdong Zhou* and Hao Su*

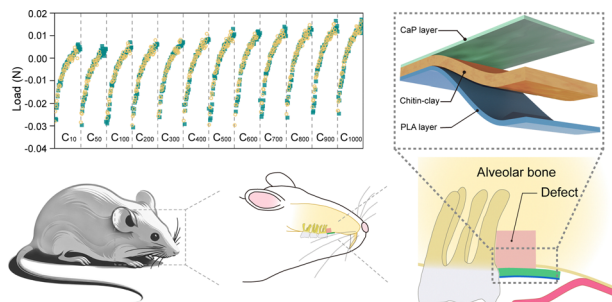
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Simultaneous detection of breast cancer biomarkers HER2 and miRNA-21 based on duplex-specific nuclease signal amplification

Miao He, Zhiqiang Hou, Feifan Yin, Wenting Cheng, Yang Xiang* and Zhongyun Wang*

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Bioinspired triple-layered membranes for periodontal guided bone regeneration applications

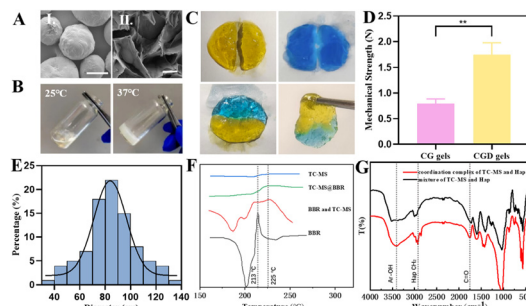
Yang Yang, Deng-Cheng Yang, Xian-Yan Long, Xiang Liu, Jing-Wen Lu, Zhou-Jing Zhang, Qian-Qian Shi, Yong Zhou* and Duo-Hong Zou*



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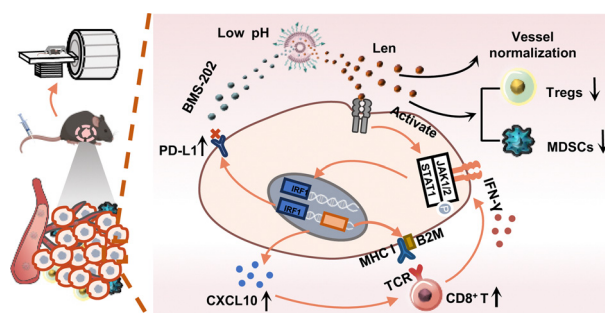
Li Mi, Jiachen Li, Adric Ru Khiing Hii, Zhenhao Zuo, Ya Tang, Wei Zhou,* Zhenghong Wu* and Xiaole Qi*



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iRGD-mediated liposomal nanoplatforms for improving hepatocellular carcinoma targeted combination immunotherapy and monitoring tumor response via IVIM-MRI

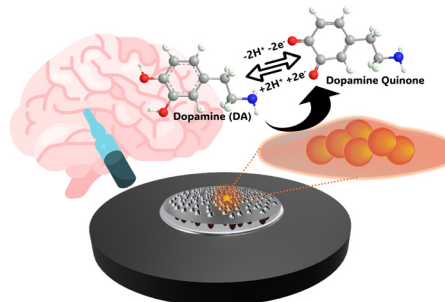
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Facile stoichiometric interfacial surface bonded cerium oxide and graphene oxide heterostructure for efficient electrochemical non-enzymatic detection of dopamine

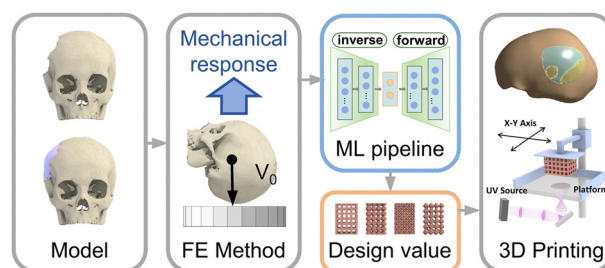
Hemarani Annadurai, Renganathan Vengudusamy, Shen-Ming Chen* and C. R. Kao*



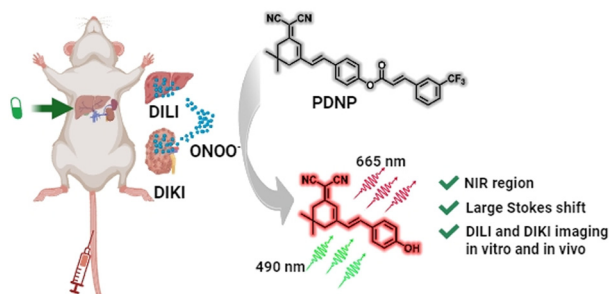
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Inverse design of skull osteoinductive implants with multi-level pore structures through machine learning

Jixin Zhang, Yan Zhuang, Cong Feng, Xiangfeng Li,* Ke Chen,* Lin Han, Yilei Wang, Xiangdong Zhu, Mingli Yang, Guangfu Yin, Jiangli Lin* and Xingdong Zhang



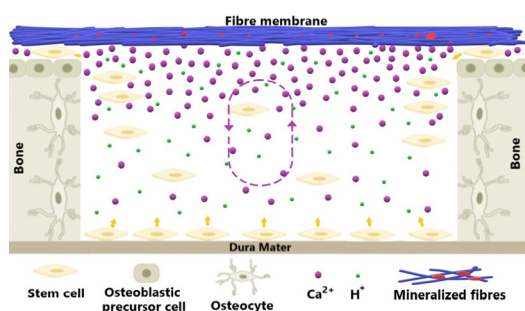
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Imaging of ONOO⁻ fluctuations during drug-induced liver/kidney injury *in vitro* and *in vivo* via a dicyanoisophorone-based NIR fluorescent probe with a large Stokes shift

Fei Kong, Hengqing Liu, Jie Huang and Jingcan Qin*

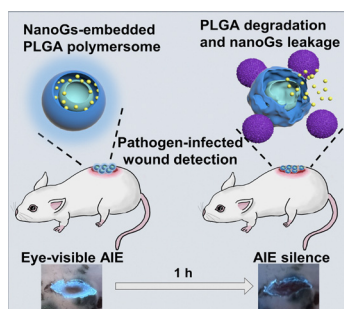
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Simulation of the bone remodelling microenvironment by calcium compound-loaded hydrogel fibrous membranes for *in situ* bone regeneration

Yanmei Wu, Zhen Wu, Zhe Li and Youliang Hong*

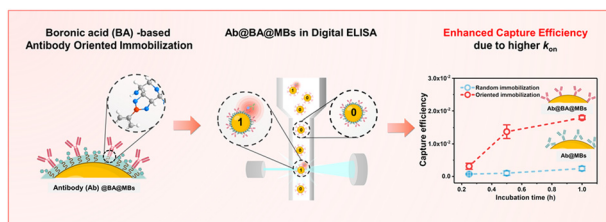
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Aggregation-induced emission silence-mediated pathogen detection using a rapidly degradable nanographene-embedded polymersome

Chia-Yi Cheng, Eldhose V. Varghese, Wen-Jyun Wang, Chia-Yu Yao, Chia-Hsiang Chen* and Wei-Peng Li*

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Revolutionizing the capture efficiency of ultrasensitive digital ELISA via an antibody oriented-immobilization strategy

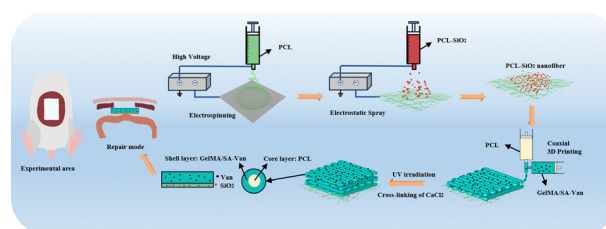
Yutong Zhang, Xiaojun Kuang, Jingwei Yi, Tong Sun, Qingsheng Guo, Hongchen Gu and Hong Xu*



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3D printing/electrospinning of a bilayered composite patch with antibacterial and antiadhesive properties for repairing abdominal wall defects

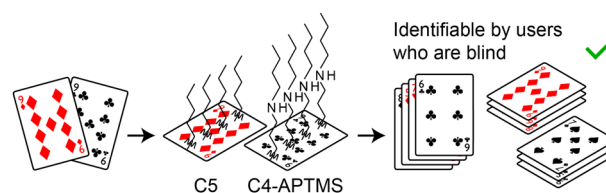
Qingxi Hu, Yu Zhang, Yongteng Song, Hekai Shi, Dongchao Yang, Haiguang Zhang* and Yan Gu*



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Self-assembled thin films as alternative surface textures in assistive aids with users who are blind

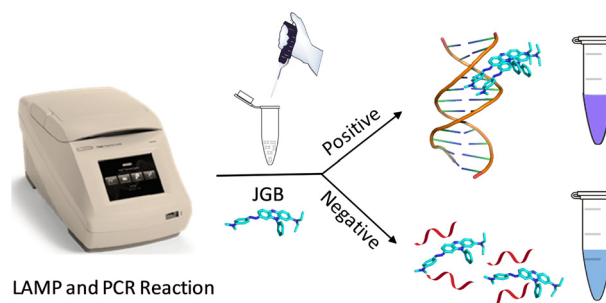
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New insights into the photophysical properties and interaction mechanisms of Janus green blue dye with polyanions and its applications in colorimetric visualization of loop-mediated isothermal amplification and polymerase chain reaction

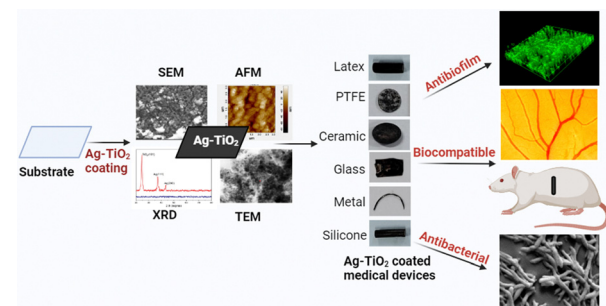
Arumugam Selva Sharma, Sung Min Ryou, Ji Hyeok Lee and Nae Yoon Lee*



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Surface modification of medical grade biomaterials by using a low-temperature-processed dual functional Ag-TiO₂ coating for preventing biofilm formation

Lipi Pradhan, Sobhan Hazra, Satya Veer Singh, Bajrang, Anjali Upadhyay, Bhola Nath Pal* and Sudip Mukherjee*



CORRECTION

10110

Correction: Surface modification of medical grade biomaterials by using a low-temperature-processed dual functional Ag–TiO₂ coating for preventing biofilm formation

Lipi Pradhan, Sobhan Hazra, Satya Veer Singh, Bajrang, Anjali Upadhyay, Bhola Nath Pat* and Sudip Mukherjee*

