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Materials for biology and medicine

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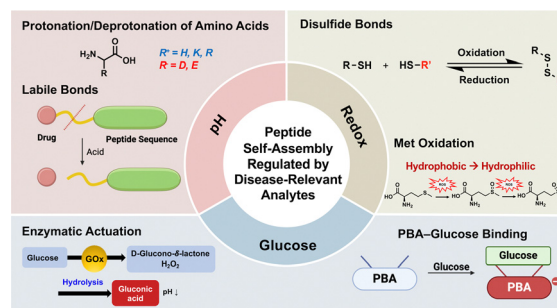
See Yongdoo Choi *et al.*, pp. 10877–10885. Image reproduced by permission of Yongdoo Choi from *J. Mater. Chem. B*, 2024, 12, 10877.

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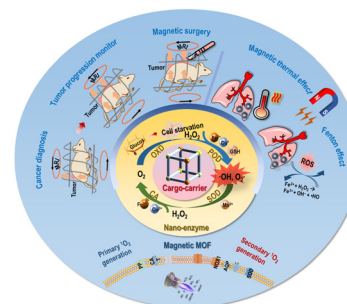
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Metal–organic frameworks: potential synergies with cold atmospheric plasmas for cancer control

Xiaofeng Dai* and Yixuan Yang



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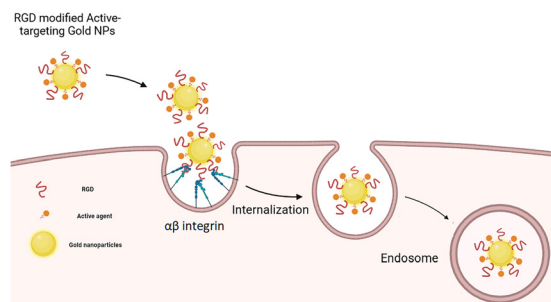


REVIEWS

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Unlocking the potential of RGD-conjugated gold nanoparticles: a new frontier in targeted cancer therapy, imaging, and metastasis inhibition

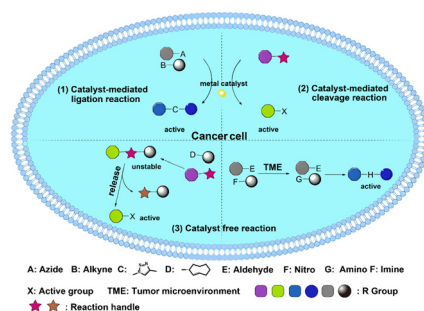
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Yongchao Yao, Ying Chen, Chang Zhou, Quanzhi Zhang, Xun He, Kai Dong, Chengli Yang, Bingyang Chu and Zhiyong Qian*

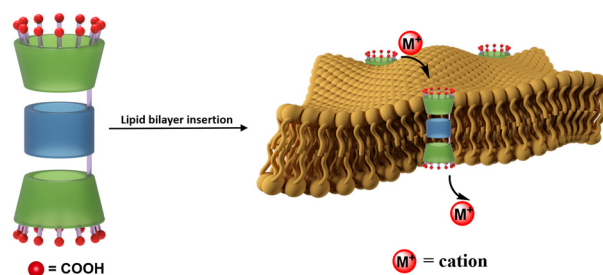


COMMUNICATIONS

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A unimolecular artificial cation channel based on cascaded hydrated acid groups

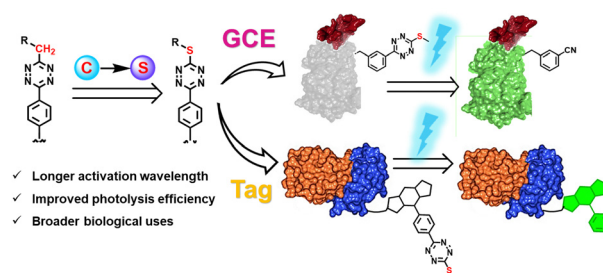
Pengyang Xin,* Hailong Yuan, Long Zhang, Qiuhei Zhu, Xunpeng Ning, Yufei Song, Yuqing Shu and Yonghui Sun*



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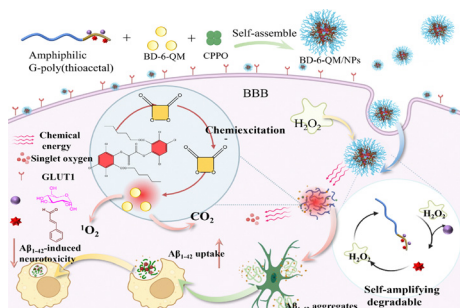
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Shudan Yang, Mengxi Zhang, Axel Loredo, David Soares, Yulun Wu and Han Xiao*



COMMUNICATIONS

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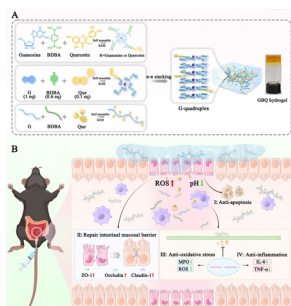


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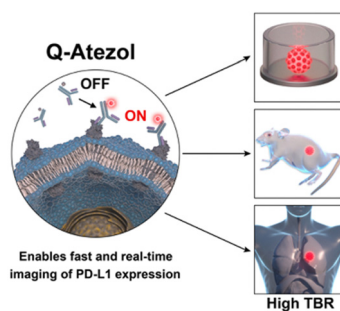
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ROS/pH dual-responsive quercetin-loaded guanosine borate supramolecular hydrogel enema in dextran sulfate sodium-induced colitis in mice

Luqing Zhao, Dan Dou, Di Zhang, Xin Deng, Ning Ding, Yun Ma, Xingyu Ji, Shengsheng Zhang* and Chao Li*

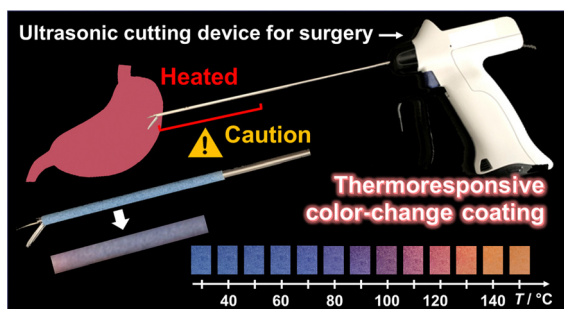
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Activatable near-infrared fluorescence probe for real-time imaging of PD-L1 expression in tumors

Hyunjin Kim, Maixian Liu, Chan Hyeok Park, Byung Il Lee, Hyunchol Jang and Yongdo Choi*

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Phase-separated structures of tunable thermoresponsive and matrix polymers for large-scale temperature monitoring coatings

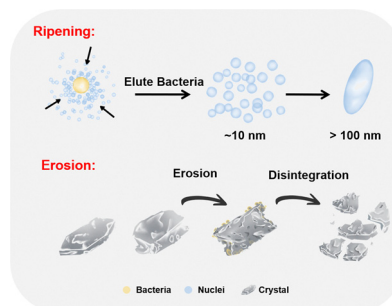
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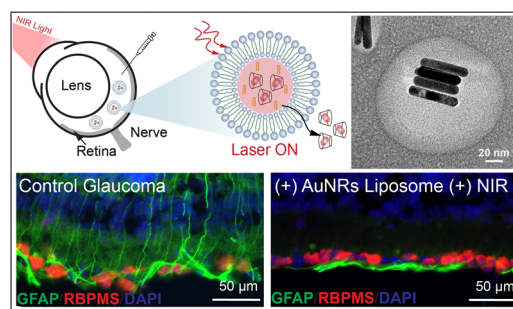
Xiran Shen, Wentao Chen, Li Guo, Huayu Li, Hong Chen* and Fan Liu*



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Near-infrared activated liposomes for neuroprotection in glaucoma

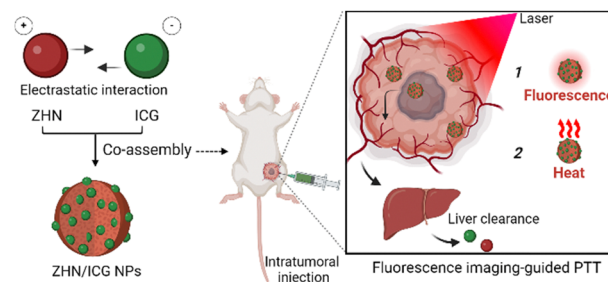
Dorcas Matuwana, Eunji Hong, Sizhe Huang, Xinxin Xu, Geunho Jang, Ruobai Xiao, Siyuan Rao* and Qianbin Wang*



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Assembly-enhanced indocyanine green nanoparticles for fluorescence imaging-guided photothermal therapy

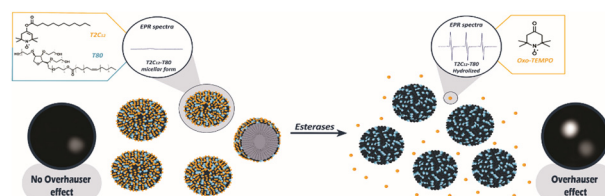
Shukun Li, Yudong Li, Mengqian Shi, Ruirui Xing,* Jan C. M. Van Hest and Xuehai Yan*



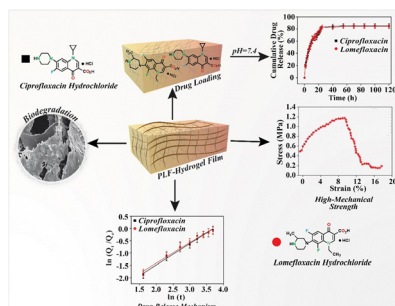
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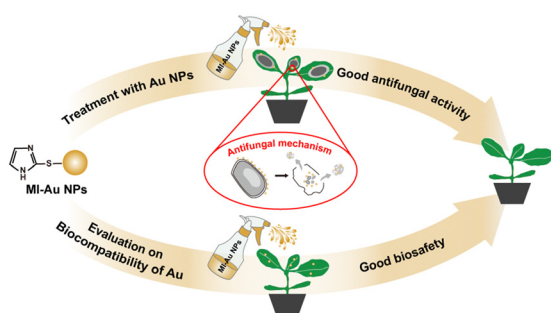
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A chitosan- α -naphthaldehyde hydrogel film containing pineapple leaf fibers for wound dressing applications

Amarjyoti Mondal, Dasuklang Lyngdoh Nongbri, Kusumita Achariya, Mahabul Haque, Kripamoy Aguan, Arijit Bhattacharya and Atanu Singha Roy*

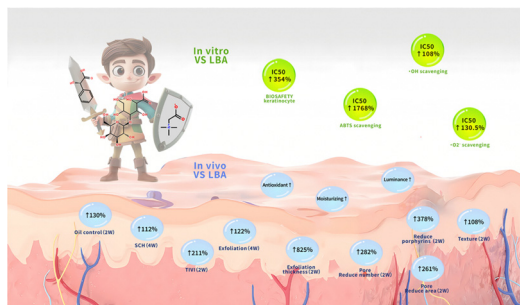
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Mercaptoimidazole-capped gold nanoparticles as a potent agent against plant pathogenic fungi

Tang Xu, Wenshuai Hao, Ran Du, Dai Dai, Cuixia Wang, Suhua Li, Carol Sze Ki Lin, Ruitao Cha,* Jianbin Yan* and Chong Li*

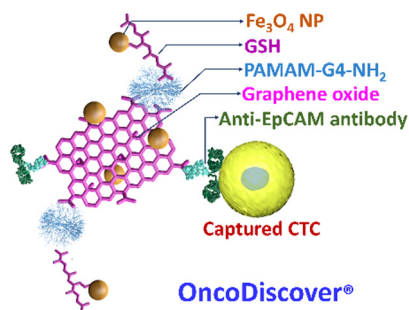
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Lactobionic acid matrix supramolecular complexes with enhanced bioavailability and clinical efficacy as an optimal CP system

Hao Wang, Yongli Huo, Jialin Wang, Jinxu Huang, Ya Liao, Zhijian Liao, Huwu Zhou, Xin Zhang, Xiaomei Huang, Zhenyuan Wang* and Jiaheng Zhang*

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A multicomponent nanosystem for capturing circulating tumor cells from cancer patients with PD-L1 as an immunotherapy oncotarget

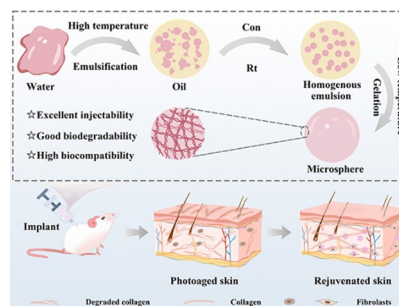
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High-temperature emulsification coupled with low-temperature gelation for fabrication of agarose microsphere implants with well-controlled size for skin tissue enhancement

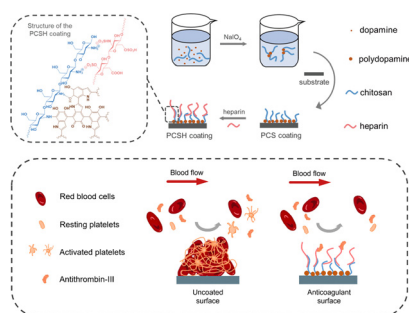
Qi Wang, Huiyu Yan, Ying Guo, Bei Tian and Jianxi Xiao*



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Development of substrate-independent heparin coating to mitigate surface-induced thrombogenesis: efficacy and mechanism

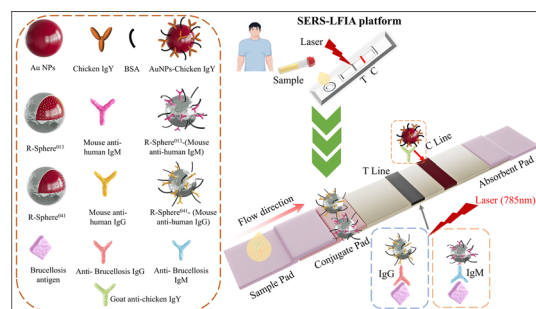
Shengjun Cheng, Haifeng Ji,* Tao Xu, Xianda Liu, Lin Xu, Weifeng Zhao and Changsheng Zhao*



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Combined and rapid detection of anti-Brucella IgG/IgM in clinical samples based on surface-enhanced Raman scattering-lateral flow immunochromatography

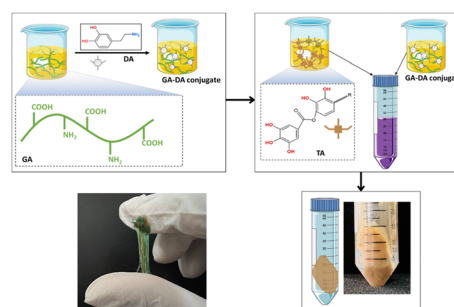
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DOTAGEL: a hydrogen and amide bonded, gelatin based, tunable, antibacterial, and high strength adhesive synthesized in an unoxidized environment

Soham Irtiza Swapnil, Md Tashdid Hossain Shoudho, Abdur Rahman, Tahmed Ahmed and M. Tarik Arafat*



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Retraction: Biologically responsive, sustainable release from metallo-drug coordinated 1D nanostructures

Naohiro Kameta,* Soo Jin Lee, Mitsutoshi Masuda and Toshimi Shimizu

