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Journal of Materials Chemistry B

Materials for biology and medicine

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REVIEWS

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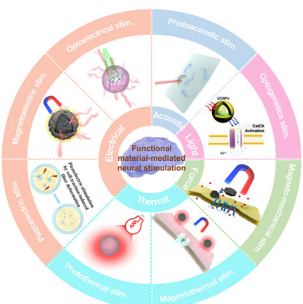
Functional material-mediated wireless physical stimulation for neuro-modulation and regeneration

Jialu Li, Chengheng Wu, Mingze Zeng, Yusheng Zhang, Dan Wei, Jing Sun and Hongsong Fan*



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REVIEWS

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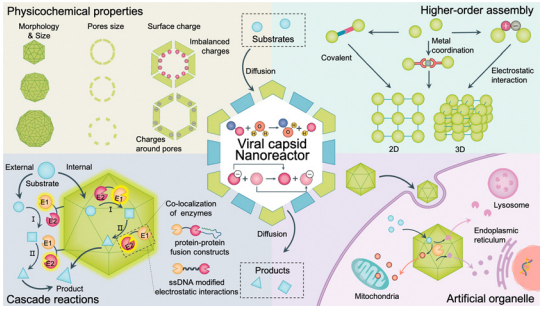
Virus-like particles nanoreactors: from catalysis towards bio-applications

Yuqing Su, Beibei Liu, Zhenkun Huang, Zihao Teng, Liulin Yang, Jie Zhu, Shuaidong Huo* and Aijie Liu*



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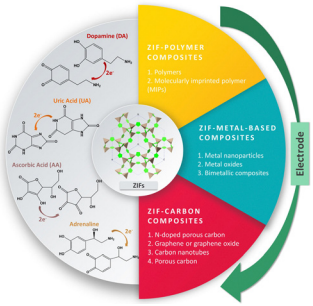
A review of zeolitic imidazolate frameworks (ZIFs) as electrochemical sensors for important small biomolecules in human body fluids

Zhou Feng, H. N. Lim,* I. Ibrahim and N. S. K. Gowthaman



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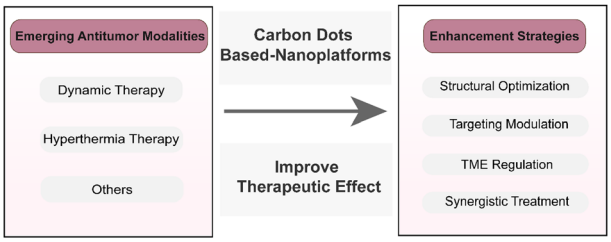
Recent strategies of carbon dot-based nanodrugs for enhanced emerging antitumor modalities

Xu Chu, Mengdie Duan, Huaying Hou, Yujuan Zhang, Pai Liu, Hongli Chen, Yi Liu* and Shu-Lan Li*



PAPERS

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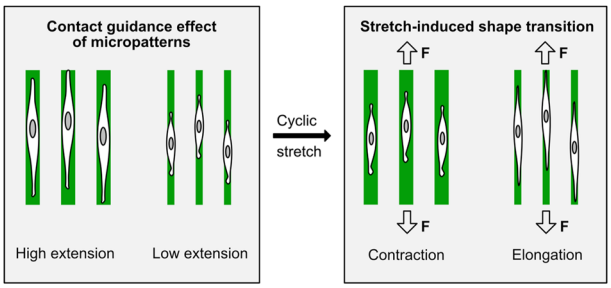
Cyclic stretch modulates the cell morphology transition under geometrical confinement by covalently immobilized gelatin

Kun Fang, Stefan Müller, Motoki Ueda, Yasuhiro Nakagawa, Katsuko S Furukawa, Takashi Ushida, Toshiyuki Ikoma and Yoshihiro Ito*



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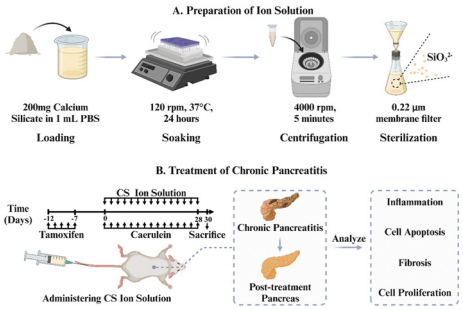

A new method for treating chronic pancreatitis and preventing fibrosis using bioactive calcium silicate ion solution

Hua Yin, Zhaowenbin Zhang, Deyu Zhang, Lisi Peng, Chuanchao Xia, Xiaoli Yang, Xinyue Wang, Zhaoshen Li,* Jiang Chang* and Haojie Huang*

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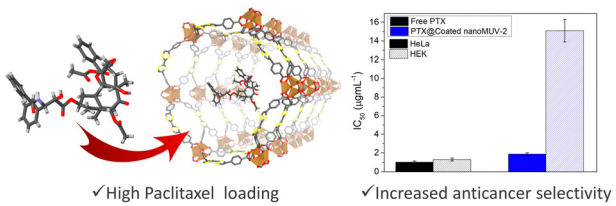

Hierarchical mesoporous NanoMUV-2 for the selective delivery of macromolecular drugs

Isabel Abánades Lázaro,* María Vicent-Morales, Guillermo Mínguez Espallargas and Mónica Giménez-Marqués*

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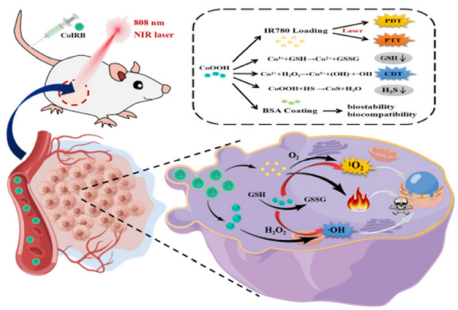

Protein-coated cobalt oxide–hydroxide nanospheres deliver photosensitizer IR780 iodide for near-infrared light-triggered photodynamic/photothermal/chemodynamic therapy against colon cancer

Han Hu, Shijie Yao, Qi Xu, Xing Cai, Zhimin Mo, Zhe Yang, Wenqiu Chen, Qianyuan He,* Xiaofang Dai* and Zushun Xu*

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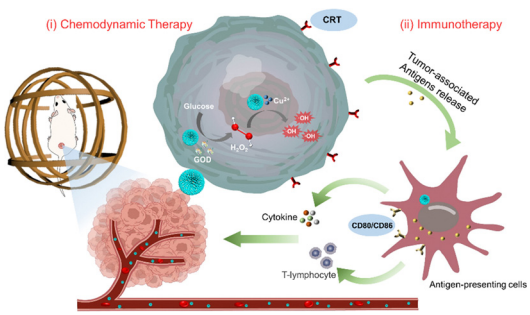

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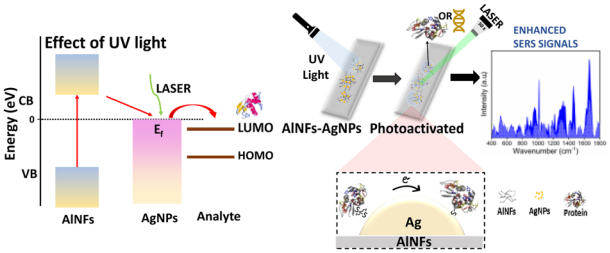
Photoactivated plasmonic nanohybrid fibers with prolonged trapping of excited charge carriers for SERS analysis of biomolecules

Arti Sharma, Tripti Ahuja, Jatin Yadav, Shubhangi Majumdar and Soumik Siddhanta*



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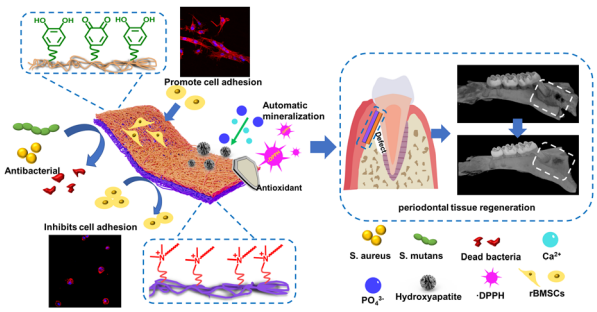
Janus functional electrospun polyurethane fibrous membranes for periodontal tissue regeneration

Jingjing Lin, Yushui He, Yuanyuan He, Yuan Feng, Xiao Wang, Lei Yuan, Yanchao Wang, Jie Chen, Feng Luo,* Zhen Li, Jiehua Li and Hong Tan*



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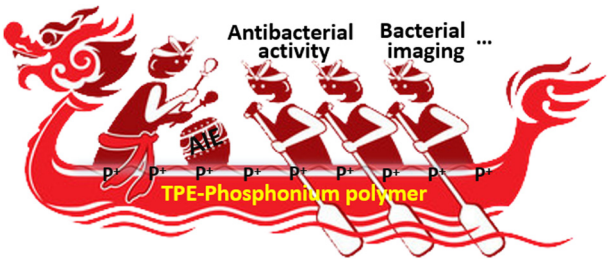
A fluorescent quaternary phosphonium main-chain-type polymer: an opportunity to fabricate functional materials with excellent antibacterial activity and bacterial imaging capability

Jiawei Lv, Saicuo Wang, Chunxuan Qi, Muheman Li, Yuqing Sun, Yuan Yang, Cheng Zeng, Richao Shen and Hengchang Ma*



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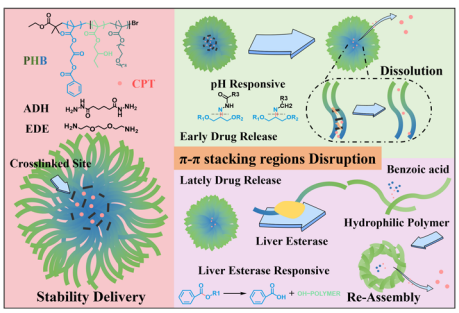
Exploring release mechanisms by disrupting π–π stacking regions in stable micelles

Fusheng Zhang, Gongcui Pei, Baihao Huang, Jianchang Xu and Lijuan Zhang*



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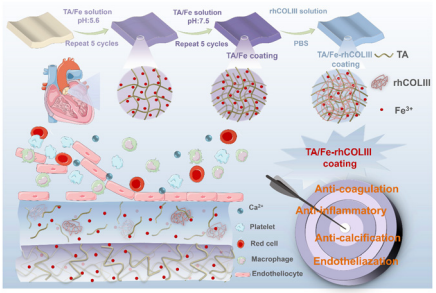

Postfunctionalization of biological valve leaflets with a polyphenol network and anticoagulant recombinant humanized type III collagen for improved anticoagulation and endothelialization

Haoshuang Wu, Kaiyang Huang, Mengyue Hu, Nuoya Chen, Yumei Qin, Jian Wang, Rifang Luo, Li Yang* and Yunbing Wang

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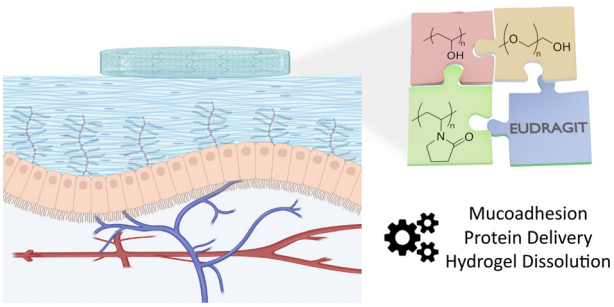

The role of Eudragit® as a component of hydrogel formulations for medical devices

David Esporrín-Ubieto, Ana Sofía Sonzogni, Mercedes Fernández, Arantxa Acera, Eider Matxinandiarena, Juan F. Cadavid-Vargas, Itxaso Calafel, Ruth N. Schmarsow, Alejandro J. Müller, Aitor Larrañaga and Marcelo Calderón*

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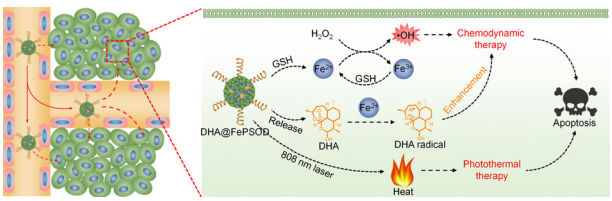

Iron-chelated semiconducting oligomer nanoparticles for NIR-II fluorescence imaging-guided enhanced chemodynamic/photothermal combination therapy

Shanchao Diao, Wenheng Shi, Yaxin Liu, Tingting Liang, Zhiwei Xu, Wen Zhou,* Chen Xie* and Quli Fan*

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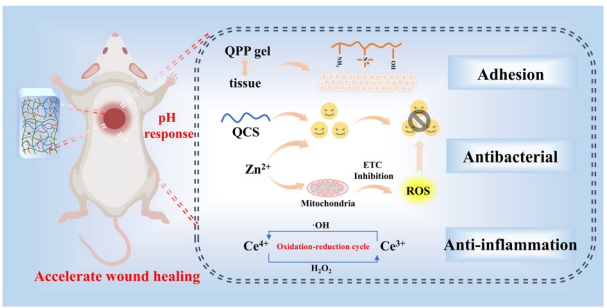

A pH-responsive ZC-QPP hydrogel for synergistic antibacterial and antioxidant treatment to enhance wound healing

Ziwen Zhang, Jinxia Wang, Yu Luo,* Chunlin Li, Yangang Sun, Kaiyang Wang, Guoying Deng, Linjing Zhao, Chunping Yuan, Jie Lu, Ying Chen, Jian Wan* and Xijian Liu*

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RETRACTION

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Retraction: A novel TMTP1-modified theranostic nanoplatform for targeted *in vivo* NIR-II fluorescence imaging-guided chemotherapy for cervical cancer

Nuernisha Alifu,* Rong Ma, Lijun Zhu, Zhong Du, Shuang Chen, Ting Yan, Gulinigaer Alimu, Linxue Zhang and Xueliang Zhang*

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