

# Journal of Materials Chemistry B

Materials for biology and medicine

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## IN THIS ISSUE

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### Inside cover

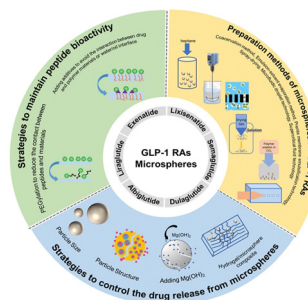
See Yuling Qin, Fuyou Li, Li Wu *et al.*, pp. 11217–11221. Image reproduced by permission of Li Wu from *J. Mater. Chem. B*, 2023, **11**, 11217.

## REVIEWS

11184

### A review of recent research and development on GLP-1 receptor agonists-sustained-release microspheres

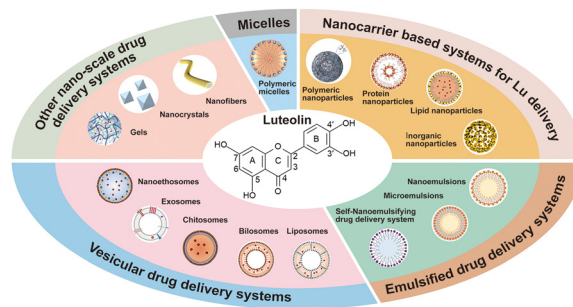
Zejing Gao, Yi Wei\* and Guanghui Ma\*



11198

### Nano-scale drug delivery systems for luteolin: advancements and applications

Jinlu Shang, Jing Yang, Qinmin Deng and Meiling Zhou\*



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# Journal of Materials Chemistry B

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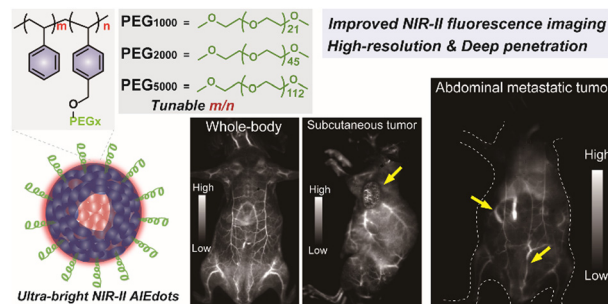


## COMMUNICATIONS

11217

### Polymeric engineering of AIEgens for NIR-II fluorescence imaging and detection of abdominal metastases of ovarian cancer *in vivo*

Xiaobo Zhou, Yuhan Zeng, Shijie Li, Ke Zhang, Lingfeng Zhao, Guo Li, Qi Wang, Haiwei Ji, Mingmin Wu, Jinxia Liu, Yuling Qin,\* Wei Feng, Fuyou Li\* and Li Wu\*



11222

### Calixarene-based cryoprotectants for ice recrystallization inhibition and cell cryopreservation

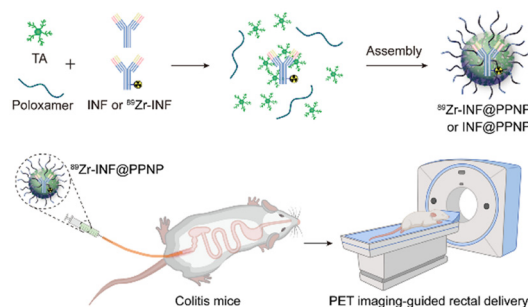
Bing Hu, Juan-Juan Li, Yan-Bin Ren, Tian-Xing Zhang, Li-Bin Chen, Xiao-Liu Li, Dong-Sheng Guo\* and Ke-Rang Wang\*



11228

### Rectal delivery of $^{89}\text{Zr}$ -labeled infliximab-loaded nanoparticles enables PET imaging-guided localized therapy of inflammatory bowel disease

Yeli Fan, Xinyu Wang,\* Ge Yan, Hongfang Gao and Min Yang\*

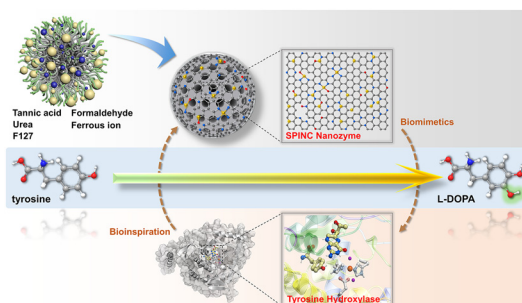


## PAPERS

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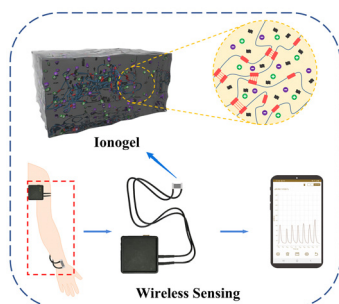
### Spherical porous iron–nitrogen–carbon nanozymes derived from a tannin coordination framework for the preparation of L-DOPA by emulating tyrosine hydroxylase

Chan Chen, Haisheng Ren, Weikang Tang, Mengqi Han, Qinfei Chen, Hong Zhou, Jiadong Chen, Yuyue Gao and Wenbin Liu\*



## PAPERS

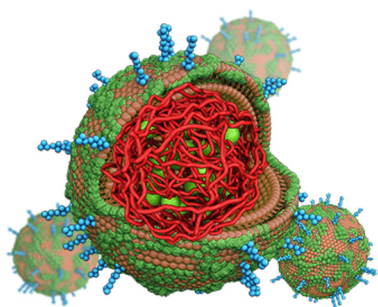
11251



### High strength, self-healing sensitive ionogel sensor based on MXene/ionic liquid synergistic conductive network for human-motion detection

Xiao Wen, Zhipeng Deng, Hui Wang, Jianyang Shi, Shuang Wang, Haibo Wang,\* Yueming Song, Zongliang Du, Jinghong Qiu and Xu Cheng\*

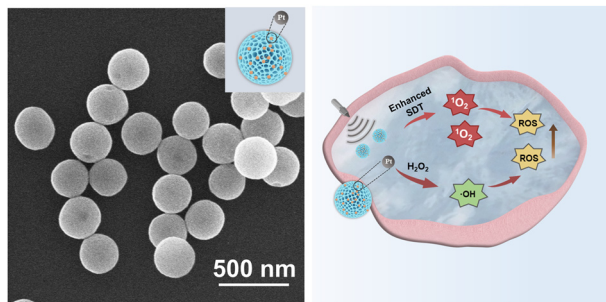
11265



### A biomimetic phototherapeutic nanoagent based on bacterial double-layered membrane vesicles for comprehensive treatment of oral squamous cell carcinoma

Qian Chen, Tianhe Shan, Yanjie Liang, Yujing Xu, Enyu Shi, Yue Wang, Changyi Li,\* Yinsong Wang\* and Mingxin Cao\*

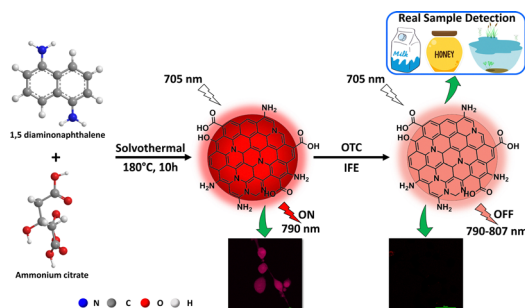
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### Platinum nanoparticle-anchored metal–organic complex nanospheres by a coordination–crystallization approach for enhanced sonodynamic therapy of tumors

Tangyao Sun, Rui Wang, Wei Lu, Xuzhi Shi, Feng Gao, Tingting Wu, Guoqin Wang, Xiaodan Su\* and Zhaogang Teng\*

11290



### Fluorescence switch based on NIR-emitting carbon dots revealing high selectivity in the rapid response and bioimaging of oxytetracycline

Muhammad Muzammal Hussain, Fengli Li, Farid Ahmed, Waheed Ullah Khan and Hai Xiong\*



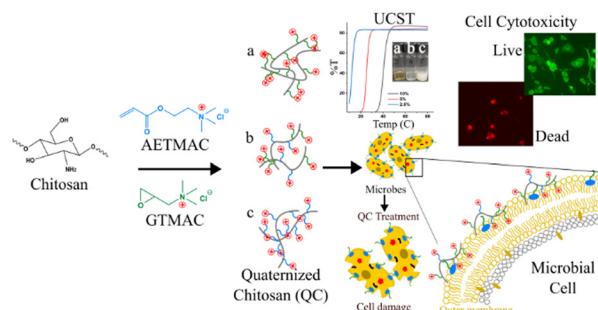


## PAPERS

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# Dual functional quaternary chitosans with thermoresponsive behavior: structure–activity relationships in antibacterial activity and biocompatibility

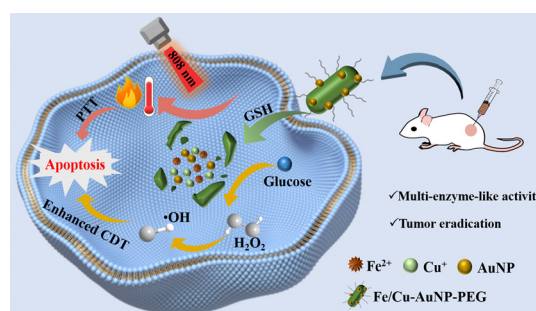
Sedigheh Borandeh, Isabella Laurén, Arun Teotia, Jukka Niskanen and Jukka Seppälä\*



11310

# Fe/Cu–AuNP nanocomposites as enzyme-like catalysts to modulate the tumor microenvironment for enhanced synergistic cancer therapy

Chan Yang, Huan Ou, Liuting Mo and Weiyang Lin\*



11319

# Antibacterial, antioxidant and injectable hydrogels constructed using CuS and curcumin co-loaded micelles for NIR-enhanced infected wound healing

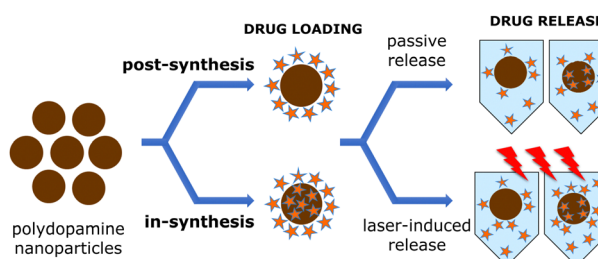
Pengpeng Jia, Yu Zou\* and Jiang Jiang\*



11335

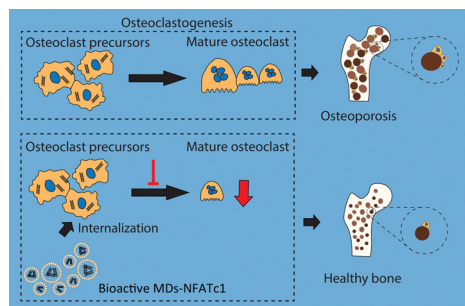
# Different drug loading methods and antibiotic structure modulate the efficacy of polydopamine nanoparticles as drug nanocarriers

Meera Patel, Nesha May O. Andoy, Susannah Megan Tran, Keuna Jeon and Ruby May A. Sullan\*



## PAPERS

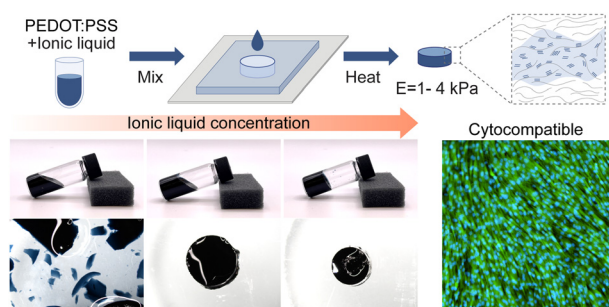
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### Development of bioactive and ultrasound-responsive microdroplets for preventing ovariectomy (OVX)-induced osteoporosis

Yi Zhang, Yi Dang, Maodi Huang, Yaping Ma, Dingmei Zhang and Xin Wang\*

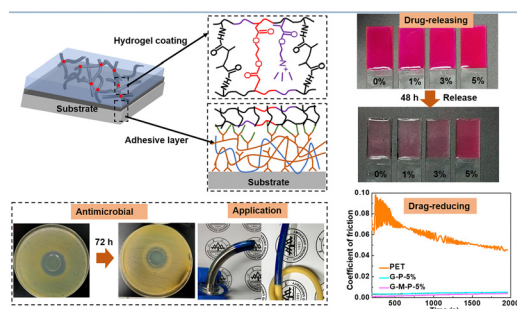
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### Manipulation of cross-linking in PEDOT:PSS hydrogels for biointerfacing

Anna P. Goestenkers, Tianran Liu, Somtochukwu S. Okafor, Barbara A. Semar, Riley M. Alvarez, Sandra K. Montgomery, Lianna Friedman and Alexandra L. Rutz\*

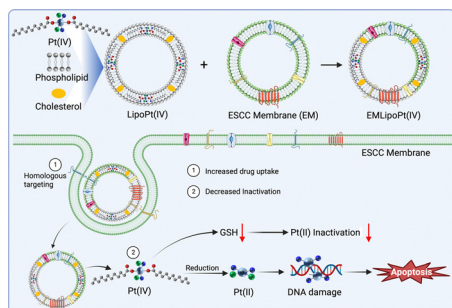
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### An underwater stable and durable gelatin composite hydrogel coating for biomedical applications

Luxing Wei, Yuan Li, Xiaoyong Qiu,\* Xiaolai Zhang, Xiaoyu Song, Yunpeng Zhao, Qing Yu, Jinlong Shao, Shaohua Ge and Jun Huang

11384



### Cancer cell membrane fused liposomal platinum(IV) prodrugs overcome cisplatin resistance in esophageal squamous cell carcinoma chemotherapy

Shuaibing Zhang, Wei Jiang, Shenghui Wang, Kexu Song, Mengyue Ge, Lirong Zhang, Xiyun Yan\* and Bing Jiang\*



## CORRECTION

11394

**Correction: A polyhexamethylene biguanide-assembly assisted strategy of dentin bonding greatly promotes bonding effects and caries treatment**

Chang Shu, Yadong Chen, Zhenzhen Zhang, Yuqing Lei, Jiajia Xu, Weiwei Lao, Qingping Xi, Qiang Sun, Xiaojun Li, Hongbing Liao, Qiaojie Luo\* and Xiaodong Li

