

# Journal of Materials Chemistry B

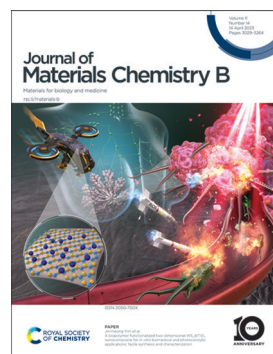
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### Cover

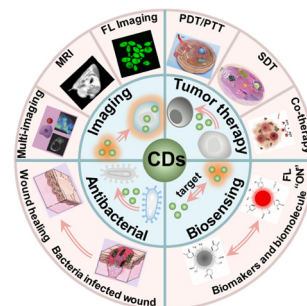
See Jin-Heong Yim *et al.*, pp. 3089–3096.  
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## REVIEWS

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### Recent developments in carbon dots: a biomedical application perspective

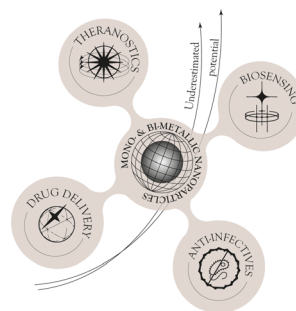
Le Tu, Qian Li, Sheng Qiu, Meiqin Li, Jinwoo Shin, Pan Wu, Nem Singh, Junrong Li, Qihang Ding, Cong Hu, Xiaoxing Xiong,\* Yao Sun\* and Jong Seung Kim\*



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### Monometallic and alloy nanoparticles: a review of biomedical applications

Elizaveta A. Koroleva, Ilya D. Shabalkin and Pavel V. Krivoshapkin\*



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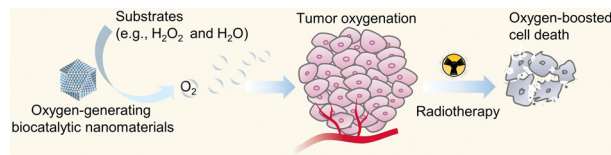


## REVIEWS

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**Oxygen-generating biocatalytic nanomaterials for tumor hypoxia relief in cancer radiotherapy**

Yan Zu,\* Ziyu Wang, Huiqin Yao\* and Liang Yan

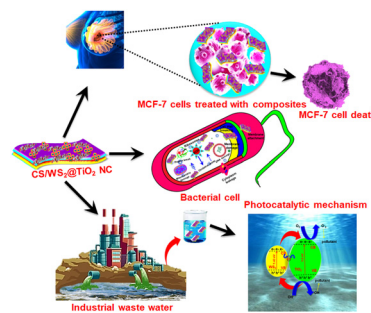


## PAPERS

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**A biopolymer functionalized two-dimensional WS<sub>2</sub>@TiO<sub>2</sub> nanocomposite for *in vitro* biomedical and photocatalytic applications: facile synthesis and characterization**

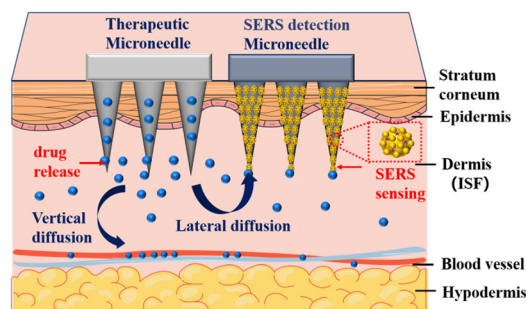
Kasirajan Kasinathan, Karunakaran Marimuthu, Selvam Samayanan and Jin-Heong Yim\*



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**Revealing drug release and diffusion behavior in skin interstitial fluid by surface-enhanced Raman scattering microneedles**

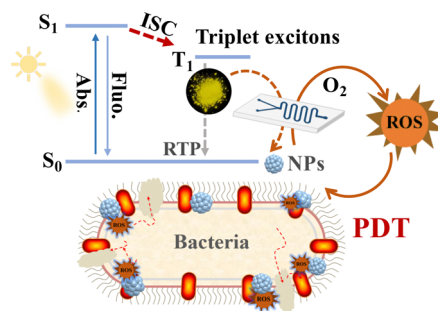
Shang Shi, Yunqing Wang,\* Rongchao Mei, Xizhen Zhao, Xifang Liu and Lingxin Chen\*



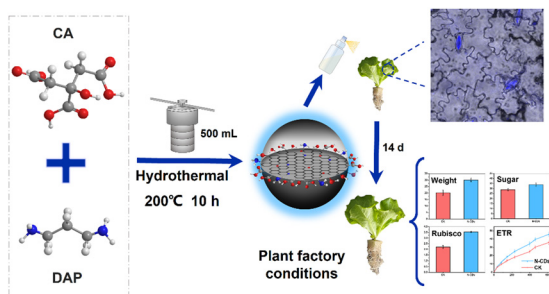
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**Microfluidic-based modulation of triplet exciton decay in organic phosphorescent nanoparticles for size-assisted photodynamic antibacterial therapy**

Cong Chao, Lingling Kang, Wenbo Dai, Changsheng Zhao, Jianbing Shi, Bin Tong, Zhengxu Cai\* and Yuping Dong\*



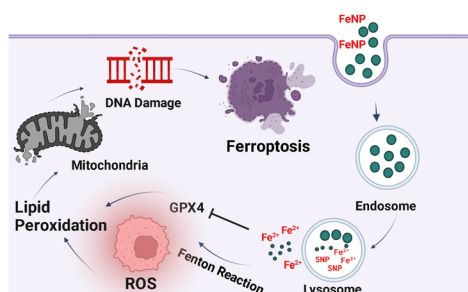
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### Preparation of nitrogen-doped carbon dots and their enhancement on lettuce yield and quality

Jieqiang Tan, Shili Zhao, Junyu Chen, Xiaoqin Pan, Chen Li, Yingliang Liu, Caijuan Wu, Wei Li\* and Mingtao Zheng\*

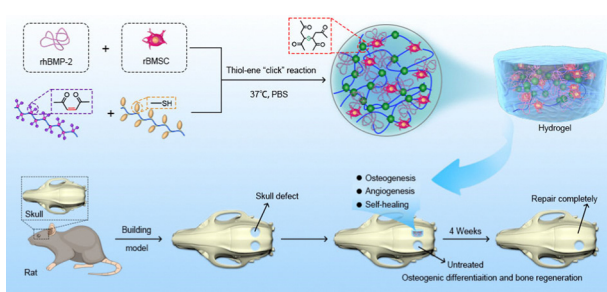
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### Iron nitroprusside as a chemodynamic agent and inducer of ferroptosis for ovarian cancer therapy

Kanwal Asif, Muhammad Adeel,\*  
Md. Mahbubur Rahman,\* Isabella Caligiuri, Tiziana Perin,  
Maja Cemazar, Vincenzo Canzonieri and Flavio Rizzolio\*

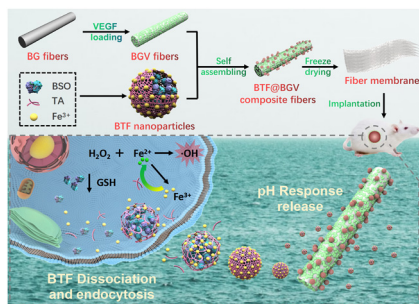
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### Click-based injectable bioactive PEG-hydrogels guide rapid craniomaxillofacial bone regeneration by the spatiotemporal delivery of rhBMP-2

Weiwei Lao, Lijie Fan, Qiao Zhang, Chaoqian Lou,  
Hang Li, Yanyan Li, Shuang Wu, Xiaojun Li,\* Qiaojie Luo,\*  
Weipu Zhu and Xiaodong Li\*

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### An implantable composite scaffold for amplified chemodynamic therapy and tissue regeneration

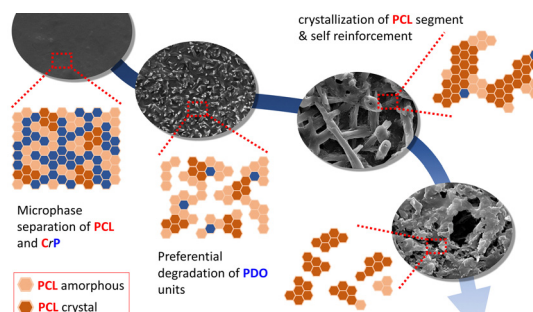
Jiafei Chen, Shiqi Wan, Yike Fu, Yi Zhou,\* Xiang Li\* and Huiming Wang\*



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### Toward regulating biodegradation in stages of polyurethane copolymers with bicontinuous microphase separation

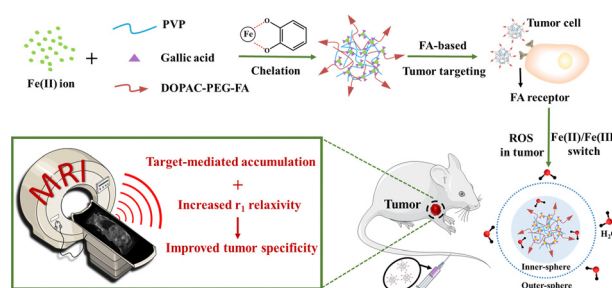
Man Wang, Hong-Ying Liu, Neng-Wen Ke,\* Gang Wu, Si-Chong Chen\* and Yu-Zhong Wang



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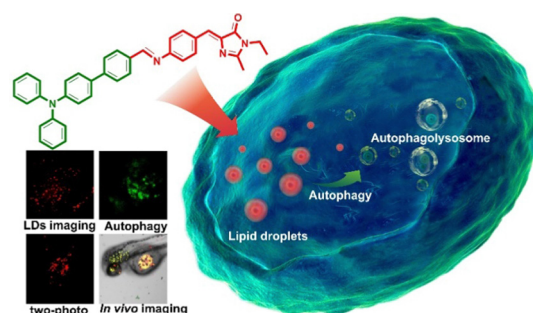
Jincong Yan, Zhongzhong Lu, Mingsheng Xu, Jihuan Liu, Ye Zhang, Jingbo Yin, Yi Cao\* and Renjun Pei\*



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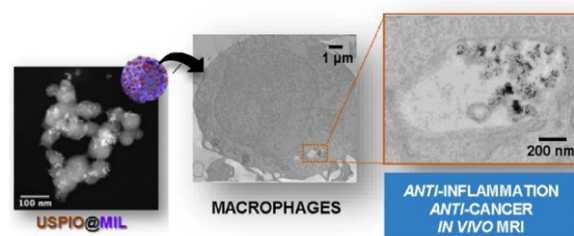
Ming-Xuan Liu, Li Xu, Peng-Fei Zhu, Xin Li, Miao Shan, Wei Jin, Jing Chen,\* Yong Ling\* and Xiao-Ling Zhang\*



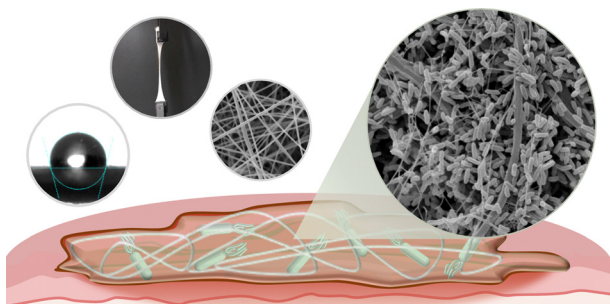
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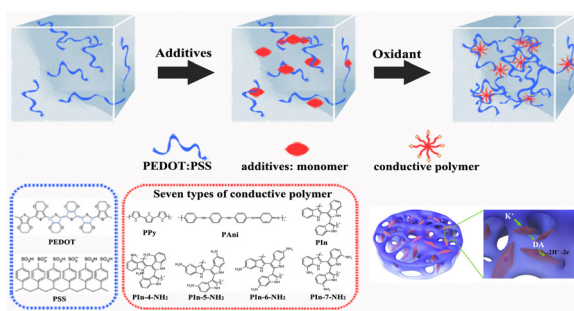
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### Imitating the microenvironment of native biofilms using nanofibrous scaffolds to emulate chronic wound infections

Jana Wächter, Pia K Vestweber, Nathalie Jung and Maïke Windbergs\*

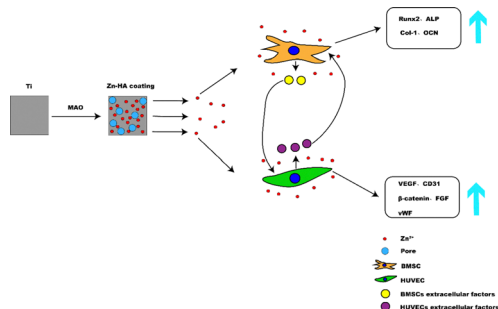
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### PEDOT:PSS hydrogels with high conductivity and biocompatibility for *in situ* cell sensing

Taotao Yang, Ming Yang, Chao Xu, Kun Yang, Yuming Su, Yongqin Ye, Lingyun Dou, Qin Yang, Wenbo Ke,\* Bin Wang\* and Zhiqiang Luo\*

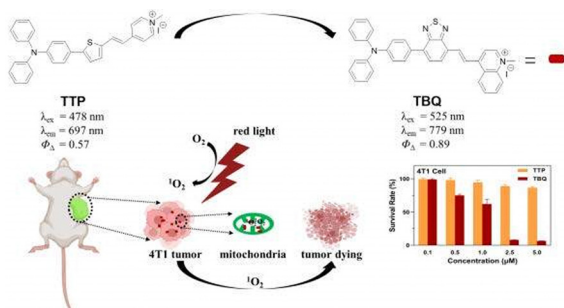
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### A functional study of zinc–titanium coatings and exploration of the intrinsic correlation between angiogenesis and osteogenesis

Lei Yu, Yuanchen Yin, Zhaoyang Guo, Yifan Fei, Xutao Wen, Jiajia Wang, Haishui Sun, Jingzhou Hu\* and Shanliang Jin\*

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### Molecular engineering to red-shift the absorption band of AIE photosensitizers and improve their ROS generation ability

Yuhui Zhang, Xiaohong Pan,\* Haixing Shi, Yaqi Wang, Wenzhen Liu, Liangzhi Cai, Le Wang, Huanhuan Wang and Zhuo Chen\*



## RETRACTION

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**Retraction: Electrodeposition of a porous strontium-substituted hydroxyapatite/zinc oxide duplex layer on AZ91 magnesium alloy for orthopedic applications**

D. Gopi,\* N. Murugan, S. Ramya and L. Kavitha

