

Journal of Materials Chemistry B

Materials for biology and medicine

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EDITORIAL

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Introduction to nanozymes

Shaoqin Liu,* Vincent M. Rotello,*
Asier Unciti-Broceta* and Hui Wei*

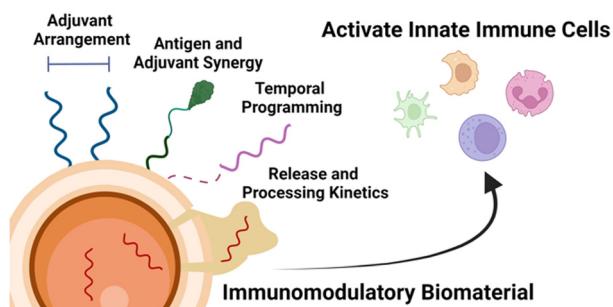


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Harnessing biomaterial architecture to drive anticancer innate immunity

Meredith A. Davis, Ezra Cho and Michelle H. Teplensky*



Journal of Materials Chemistry B

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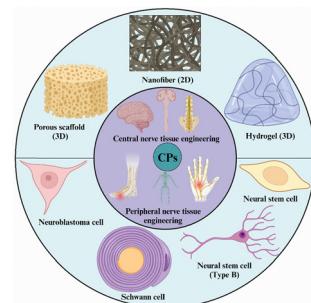


REVIEWS

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Conducting polymer-based scaffolds for neuronal tissue engineering

Hagje Yi, Rajkumar Patel, Kapil D. Patel,
 Louis-S. Bouchard, Amitabh Jha,
 Adam Willis Perriman and Madhumita Patel*

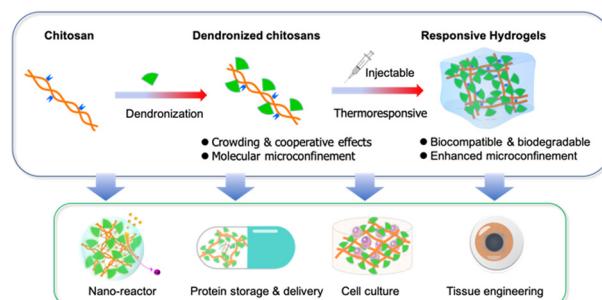


PERSPECTIVE

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Dendronization of chitosan to afford unprecedent thermoresponsiveness and tunable microconfinement

Yi Yao, Xiaoxin Shi, Zihong Zhao, Afang Zhang* and
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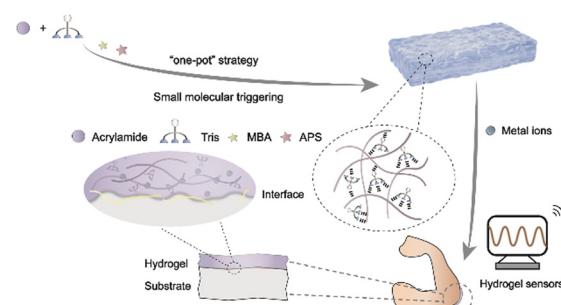


COMMUNICATION

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A facile strategy to fabricate a skin-like hydrogel with adhesive and highly stretchable attributes through small molecule triggering toward flexible electronics

Qi Chen, Xiang Ke, Yusong Cai, Hao Wang, Zhiyun Dong,
 Xinlong Li, Jinlin Li, Xinyuan Xu, Jun Luo* and
 Jianshu Li*

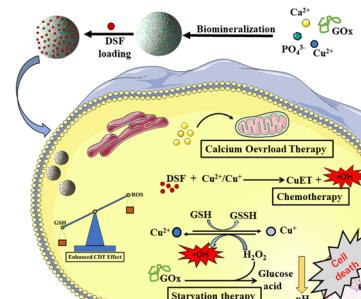


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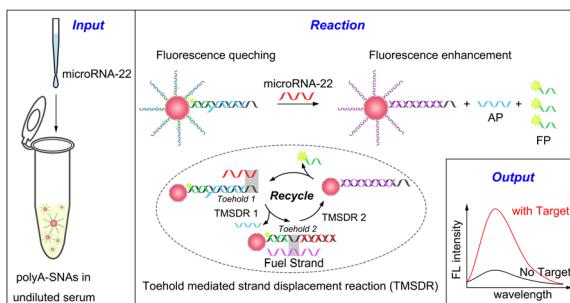
The construction of hierarchical assemblies with *in situ* generation of chemotherapy drugs to enhance the efficacy of chemodynamic therapy for multi-modal anti-tumor treatments

Wei-Nan Zhao, Hongjuan Li, Shiguo Sun and Yongqian Xu*



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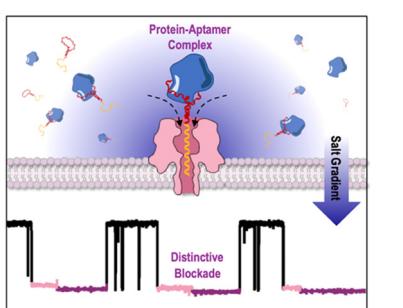
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A fuel-initiated DNA molecular machine for microRNA detection in serum *via* poly-adenine-mediated spherical nucleic acids

Menghan Gu, Xiaoqing Yi, Zhiwei Shang, Xianliang Nong, Meihua Lin* and Fan Xia

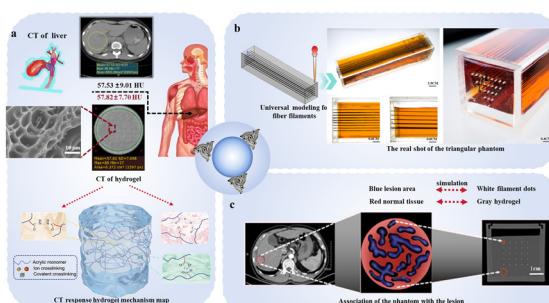
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An aptamer-assisted nanopore strategy with a salt gradient for direct protein sensing

Bohua Yin, Peng Tang,* Liang Wang, Wanyi Xie, Xiaohan Chen, Yunjiao Wang, Ting Weng, Rong Tian, Shuo Zhou, Zuobin Wang* and Deqiang Wang*

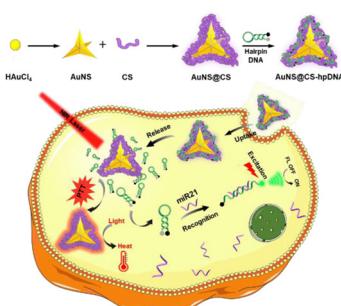
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A novel CT-responsive hydrogel for the construction of an organ simulation phantom for the repeatability and stability study of radiomic features

Xiaokai Gu, Zhenyu Shu, Xiaoli Zheng, Sailong Wei, Meng Ma, Huiwen He, Yanqin Shi, Xiangyang Gong,* Si Chen* and Xu Wang*

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Chitosan functionalized gold nanostars as a theranostic platform for intracellular microRNA detection and photothermal therapy

Xiaoxue Dong, Zongwei Zhu, Qian Sun, Hongqian Zhang and Chuanxu Yang*

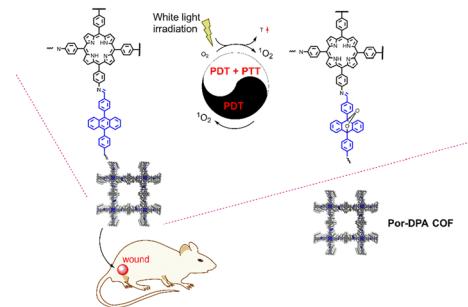


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Porphyrin–anthracene covalent organic frameworks for sustainable photosterilization

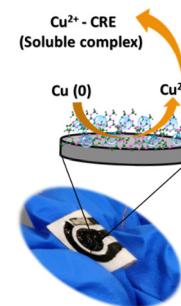
Jing-Xuan Guo, Xue-Mei Gao, Tian-Yue Gu, Hao-Ze Li, Li-Jian Chen, Xu Zhao* and Xiu-Ping Yan*



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Flexible electrochemical sensor for highly sensitive and selective non-enzymatic detection of creatinine via electrodeposited copper over polymelamine formaldehyde

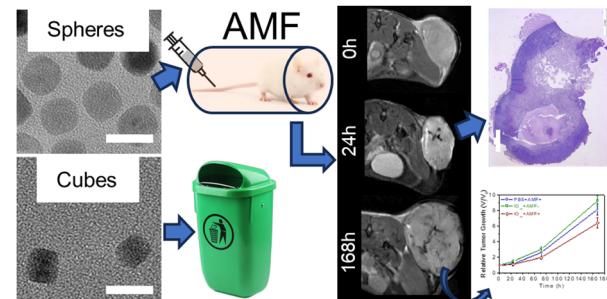
Daisy Mehta, Alankar Kafle and Tharamani C. Nagaiah*



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Optimization of iron oxide nanoparticles for MRI-guided magnetic hyperthermia tumor therapy: reassessing the role of shape in their magnetocaloric effect

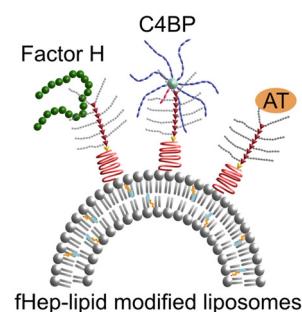
José María Paez-Muñoz, Francisco Gámez, Yilian Fernández-Afonso, Roberto Gallardo, Manuel Pernia Leal, Lucía Gutiérrez, Jesús M. de la Fuente, Carlos Caro* and María Luisa García-Martín*



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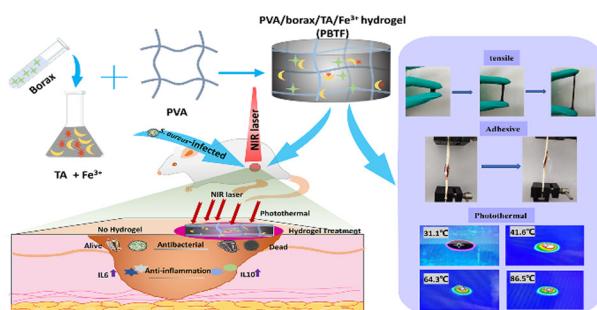
Regulation of the innate immune system by fragmented heparin-conjugated lipids on lipid bilayered membranes *in vitro*

Anna Adler, Marlene Fritsch, Karin Fromell, Gero Lenewelt, Kristina N. Ekdahl, Bo Nilsson and Yuji Teramura*



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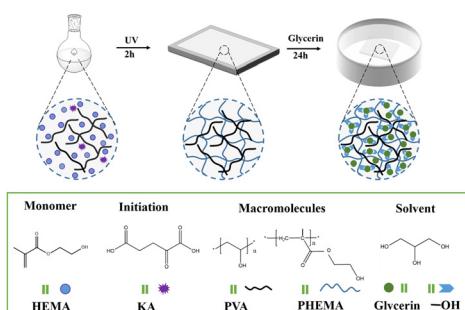
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A multifunctional hydrogel dressing with high tensile and adhesive strength for infected skin wound healing in joint regions

Chen Zhang, Kaiyue Liu, Yuanmeng He, Rong Chang, Fangxia Guan* and Minghao Yao*

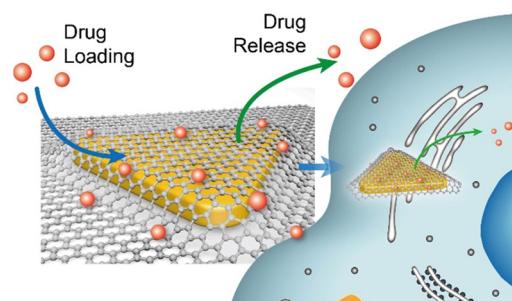
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Physically cross-linked organo-hydrogels for friction interfaces in joint replacements: design, evaluation and potential clinical applications

Zheng Li, Yongzhi Liang, Jia Wan, Wanbo Zhu, Yingjie Wang, Yuan Chen, Baoliang Lu, Junchen Zhu,* Chen Zhu* and Xianzuo Zhang*

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Plasmonic nanoprobes on single AuNTs for evaluating and monitoring the dynamic release of 2D drug carriers

Zejie Yu, Yi Wang, Miaomiao Cai, Jiachang Chen, Qirong Zou, Quli Fan and Lei Zhang*