

Journal of Materials Chemistry B

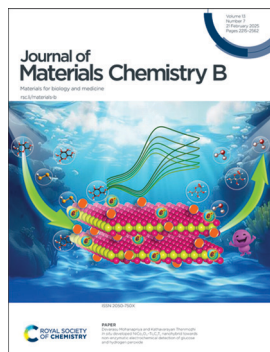
Materials for biology and medicine

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ISSN 2050-750X CODEN JMCBDV 13(7) 2215–2562 (2025)



Cover

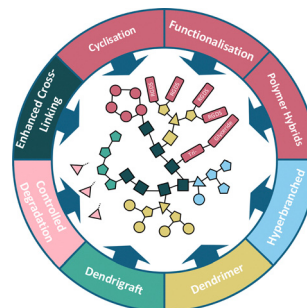
See Devarasu Mohanapriya and Kathavarayan Thenmozhi, pp. 2306–2316. Image reproduced by permission of Kathavarayan Thenmozhi from *J. Mater. Chem. B*, 2025, **13**, 2306.

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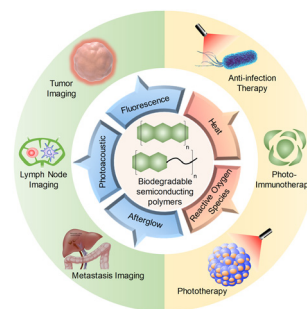
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Biodegradable semiconducting polymer nanoparticles for phototheranostics

Wen Zhou, Qiang Li, Mingming Liu, Xuxuan Gu, Xiaowen He, Chen Xie* and Quli Fan*



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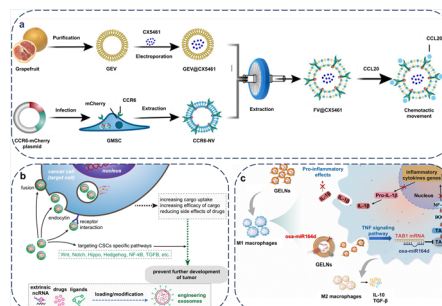
Fundamental questions
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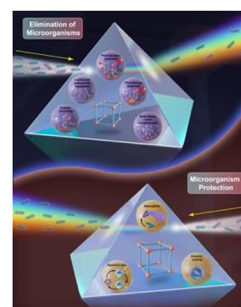
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Exploring the multifaceted roles of metal–organic frameworks in ecosystem regulation

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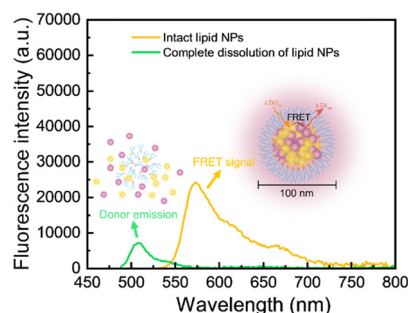


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Capturing the dynamic integrity of carbocyanine fluorophore-based lipid nanoparticles using the FRET technique

Siyu Long, David A. Turner, Kevin J. Hamill, Louise S. Natrajan and Tom O. McDonald*

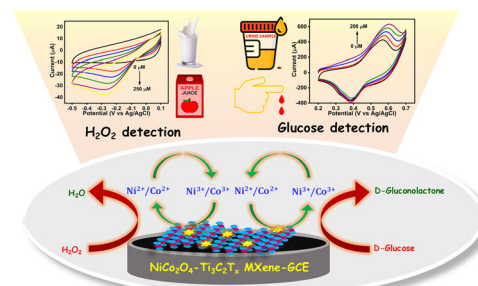


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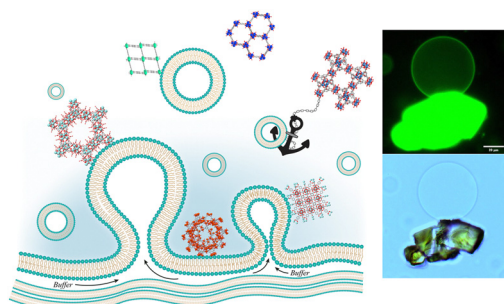
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In situ developed NiCo₂O₄–Ti₃C₂T_x nanohybrid towards non-enzymatic electrochemical detection of glucose and hydrogen peroxide

Devarasu Mohanapriya and Kathavarayan Thenmozhi*



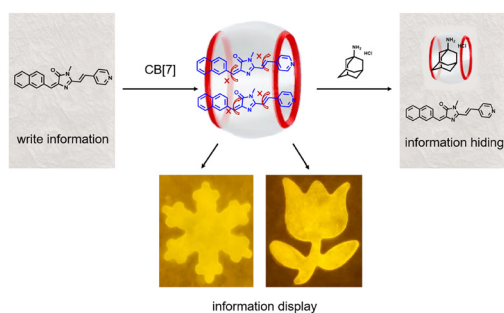
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Metal–organic frameworks as anchors for giant unilamellar vesicle immobilization

Aroosha Faheem, Mason C. Lawrence, Gazi A. Bushra, M.-Vicki Meli and Barry A. Blight*

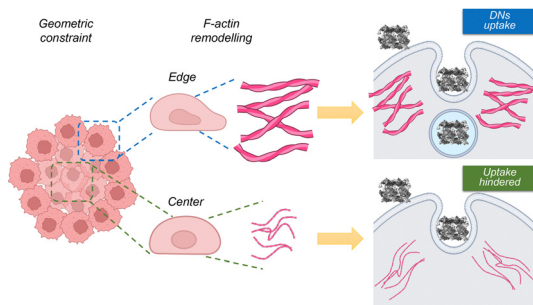
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Yifei Ren and Chusen Huang*

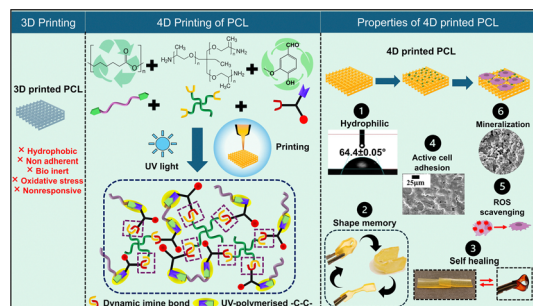
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Geometrically constrained cytoskeletal reorganisation modulates DNA nanostructures uptake

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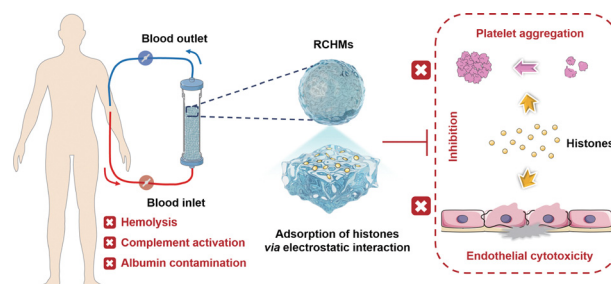
Towards cell-adhesive, 4D printable PCL networks through dynamic covalent chemistry

Sagnik Ghosh, Sathiyaraj Subramaniyan, Anadi Bisht, Bhanu Nandan, Ritu Kulshreshtha, Minna Hakkarainen and Rajiv K. Srivastava*



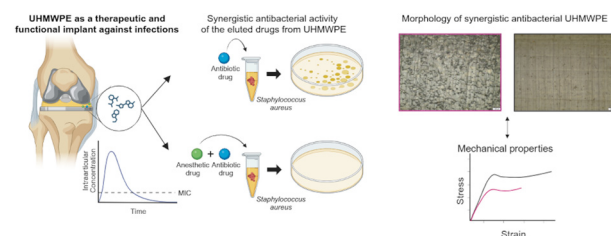
Yu Chen, Tinghang Yang, Shujing Wang, Dongmei Tong,
Xianda Liu, Yupei Li,* Weifeng Zhao* and
Changsheng Zhao

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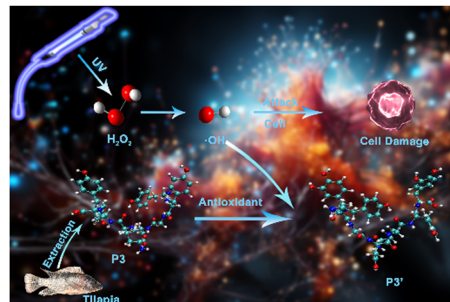
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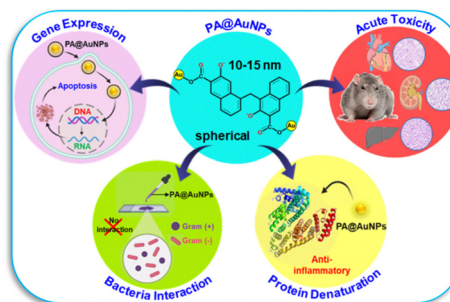
Tyrosine-modified tilapia skin antioxidant peptides and their hydroxyl radical quenching activities

Yunyao Wang, Ruiqing Jiu, Zongda Li, Qiuying Wang,
Xiangmin Lei, Jianan Chen, Haochi Liu* and Jifeng Liu*

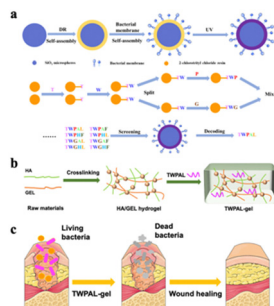


Effect of surface-engineered AuNPs on gene expression, bacterial interaction, protein denaturation, and toxicology assay: an *in vitro* and *in vivo* model

A. Sowndarya, T. Daniel Thangadurai,*
Nebu George Thomas, Renjith Sreedharan,
Sukumaran Anil, N. Manjubaashini,
T. G. Satheesh Babu and S. Megha Kumar



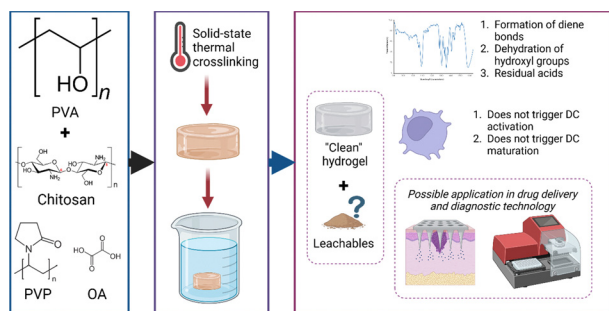
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Screening of an antimicrobial peptide-TWPAL and its application in hydrogels for wound healing

Huinan Wang, Fengyuan Gao, Muhammad Rafiq, Bing Yu,* Qinghai Niu and Hailin Cong*

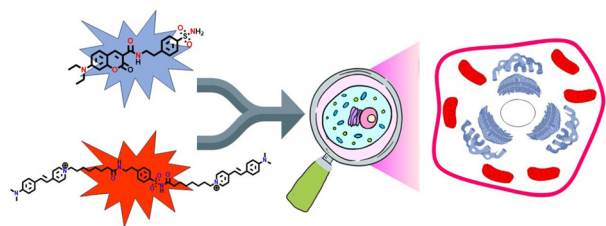
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Formulation and evaluation of PVA-based composite hydrogels: physicochemical, leachables, and *in vitro* immunogenicity studies

Achmad Himawan, Anna Korelidou, Ana M. Pérez-Moreno, Juan L. Paris, Juan Dominguez-Robles, Lalitkumar K. Vora, Andi Dian Permana, Eneko Larrañeta, Robert Graham, Christopher J. Scott and Ryan F. Donnelly*

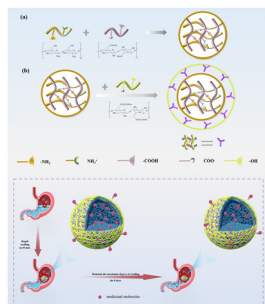
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Multi-organelle imaging with dye combinations: targeting the ER, mitochondria, and plasma membrane

Yogesh Dubey and Sriram Kanvah*

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Core-shell hydrogel with synergistic super absorption and long-term acid resistance stability: a novel gastric retention drug delivery carrier

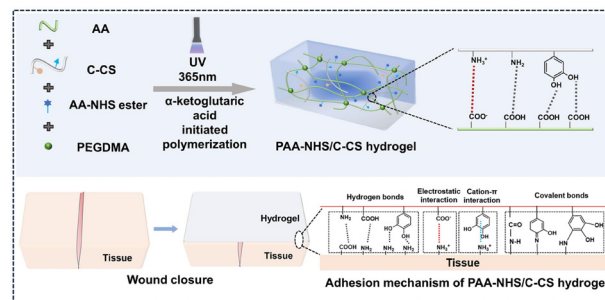
Yu Fu, Wenjing Liu, Lihang Jiang, Huili Yuan, Xiaoqian Tong, Huiwen He, Yanqin Shi, Meng Ma, Si Chen* and Xu Wang*



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Robust-adhesion and high-mechanical strength hydrogel for efficient wet tissue adhesion

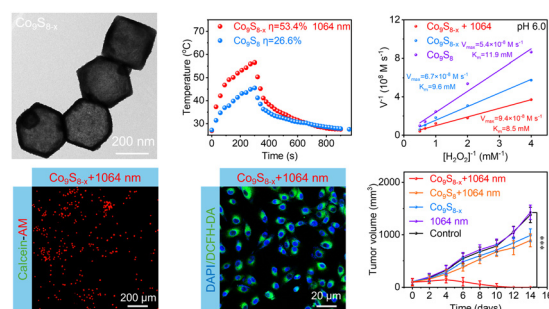
Chenyang Li, Yang Qian, Xueping Zhang* and Rongwu Wang*



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Vacancy engineering enhanced photothermal-catalytic properties of Co_9S_8-x nanozymes for mild NIR-II hyperthermia-amplified nanocatalytic cancer therapy

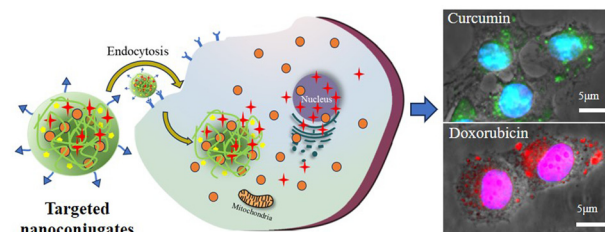
Yongyu Hao, Nan Wang, Jiaxu Wang, Shuilin Shao, Bo Gao, Youping Tao, Litao Huo, Lang Yan, Jigong Wu* and Zhiming Chen*



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Concurrent targeted delivery of doxorubicin and curcumin to the cancer cells using simple and versatile ligand-installed multifaceted chitosan-based nanoconjugates

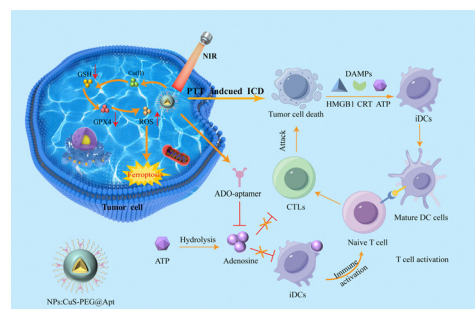
Sourav Barman, Sayoni Maitra Roy, Purvi Kishore, Malabika Ghosh, Pousali Bag, Ankan Kumar Sarkar, Tapas Ghatak, Partha Sona Maji, Arnab Basu, Rupam Mukherjee, Surya K. Ghosh, Ankan Dutta Chowdhury and Amit Ranjan Maity*



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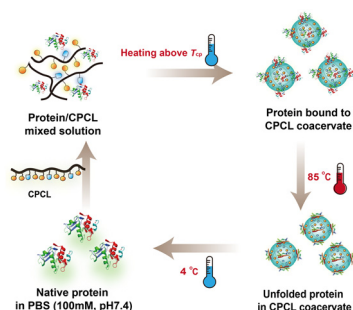
Combination of adenosine blockade and ferroptosis for photo-immunotherapy of triple negative breast cancer with aptamer-modified copper sulfide

Xingyu Zhang, Chengyu Shi, Qiao Liu, Yuting Zhong, Lipeng Zhu and Yuetao Zhao*



PAPERS

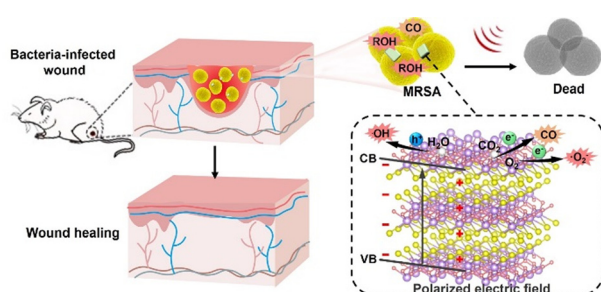
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Thermo-sensitive polycaprolactone coacervates for preventing protein aggregation under thermal stress

Xinyue Zheng, Lianlei Wen, Yan Xiao* and Meidong Lang*

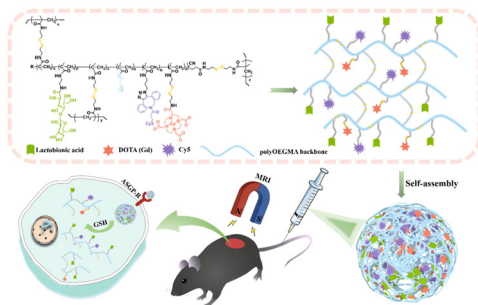
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Surface Bi-vacancy and corona polarization engineered nanosheets with sonopiezocatalytic antibacterial activity for wound healing

Mingbo Wu, Dong Li, Yao Liu, Xiaomiao Ruan, Jingwen Yang, Zegang Li, Siyi Chen, Xin Yang and Wenwu Ling*

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An ASGP-R-targeting magnetic resonance imaging contrast agent for liver cancer diagnosis

Jie Chen, Xiaoming Wang, Yinan Bai, Zhiqian Li, Haonan Li, Bing Wang, Qiyong Gong and Kui Luo*

CORRECTIONS

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Correction: Synthesis and photophysical properties of a new push–pull pyrene dye with green-to-far-red emission and its application to human cellular and skin tissue imaging

Kazuki Inoue, Ryosuke Kawakami, Masamoto Murakami, Taku Nakayama, Shinkuro Yamamoto, Keiji Inoue, Teruko Tsuda, Koji Sayama, Takeshi Imamura, Daisuke Kaneno, Shingo Hadano, Shigeru Watanabe and Yosuke Niko*



CORRECTIONS

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Correction: Acceptor–donor–acceptor-type molecules with large electrostatic potential difference for effective NIR photothermal therapy

Kexin Fan, Ludan Zhang, Qinqiu Zhong, Yanhe Xiang, Bowei Xu* and Yuguang Wang*

