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See Marc R. Knecht, Tiffany R. Walsh *et al.*, pp. 4824–4832. Image reproduced by permission of Marc R. Knecht from *J. Mater. Chem. B*, 2024, 12, 4824.



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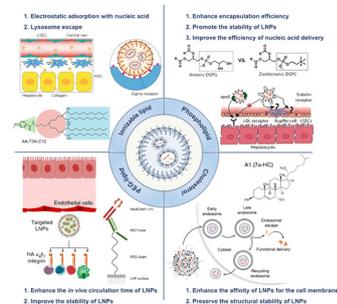
See Han Wang *et al.*, pp. 4833–4842. Image reproduced by permission of Han Wang from *J. Mater. Chem. B*, 2024, 12, 4833.

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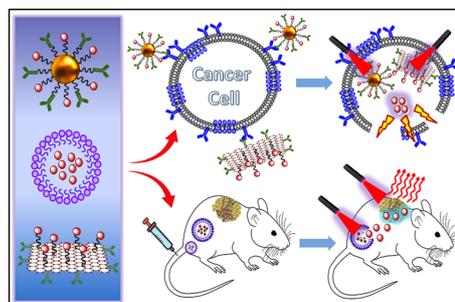
Runxuan Chu, Yi Wang,* Jiangleong Kong, Ting Pan, Yani Yang* and Jun He*



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Abhijit Karmakar,* Akshay Silswal and Apurba Lal Koner*



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Fundamental questions
Elemental answers

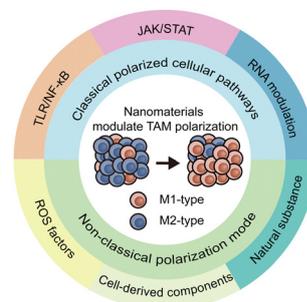


REVIEWS

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Nanomaterials in modulating tumor-associated macrophages and enhancing immunotherapy

Chen Liang, Yihan Zhang, Siyao Wang, Wangbo Jiao, Jingyi Guo, Nan Zhang* and Xiaoli Liu*

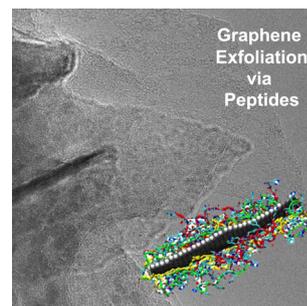


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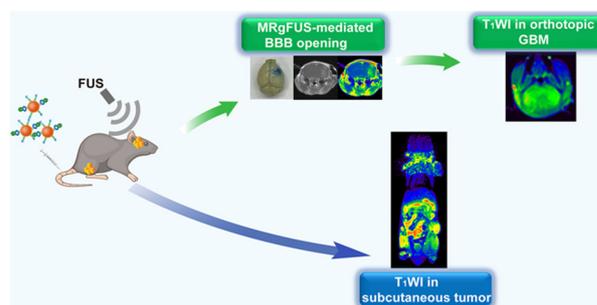
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Ultrasmall iron oxide nanoparticles with MRgFUS for enhanced magnetic resonance imaging of orthotopic glioblastoma

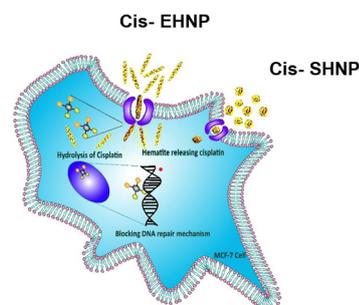
Jingwen Chen, Rui Yang, Hongwei Yu, Hao Wu, Nan Wu, Suhe Wang, Xiaorui Yin, Xiangyang Shi and Han Wang*



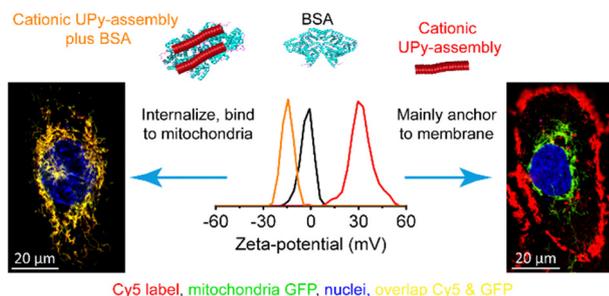
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Kaviya Vijayalakshmi Babunagappan, Thilak Raj, Abirami Seetharaman, Subastri Ariraman and Swathi Sudhakar*



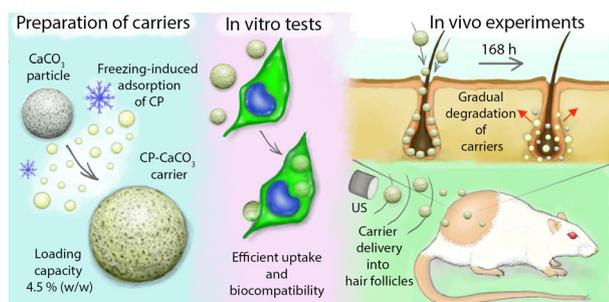
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Jiankang Song, Peter-Paul K.H. Fransen, Maarten H. Bakker, Sjors P.W. Wijnands, Jingyi Huang, Shuaiqi Guo and Patricia Y. W. Dankers*

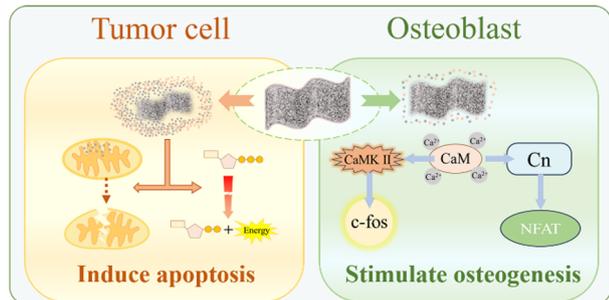
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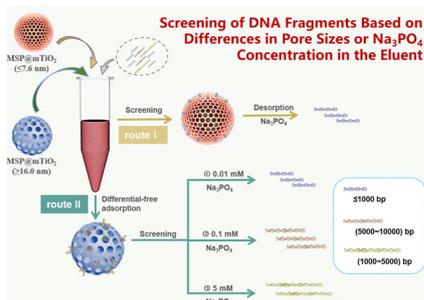
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Fructose-mineralized black phosphorus for syncretic bone regeneration and tumor suppression

Jun Shu, Yao Wang, Guangpeng Zhang, Xuedong Shu, Tingting Xu, Junwei Zhang, Fang Wu and Jing He*

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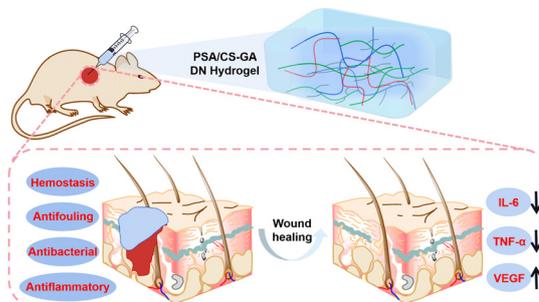
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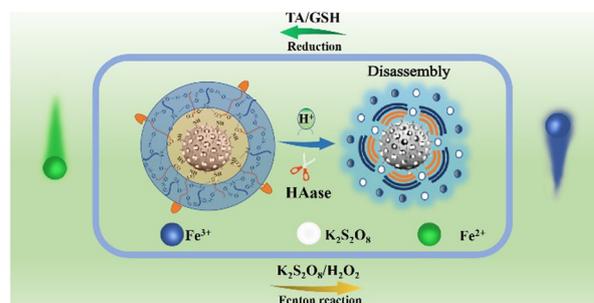
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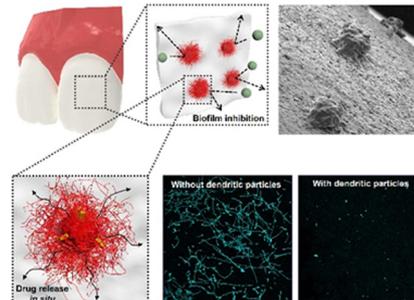
Yang Wang, Chunquan Zhu, Xiaohui Fan, Yuanyuan Yang, Zhaoxia Chen,* Li Yu* and Yuhong Zhang*



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Drug-loaded adhesive microparticles for biofilm prevention on oral surfaces

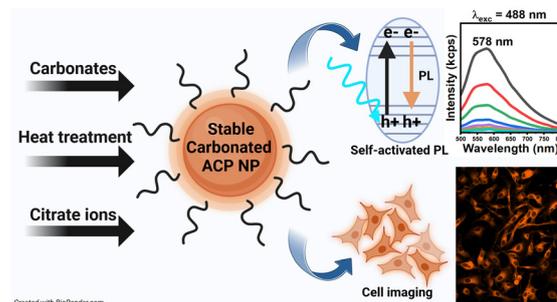
Min Jun Oh, Jae-Hyun Kim, Jaekyoung Kim, Sunghee Lee, Zhenting Xiang, Yuan Liu, Hyun Koo* and Daeyeon Lee*



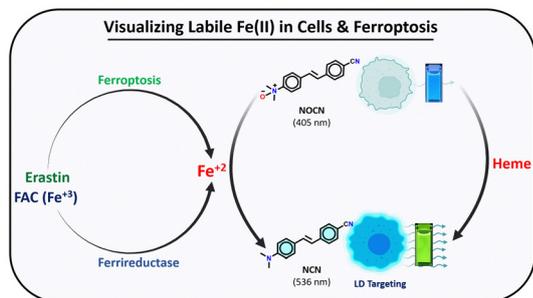
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Tailoring the structure and self-activated photoluminescence of carbonated amorphous calcium phosphate nanoparticles for bioimaging applications

Thales R. Machado,* Carlos E. Zanardo, Raquel R.C. Vilela, Renata R. Miranda, Natália S. Moreno, Celisnolia M. Leite, Elson Longo and Valtencir Zucolotto*



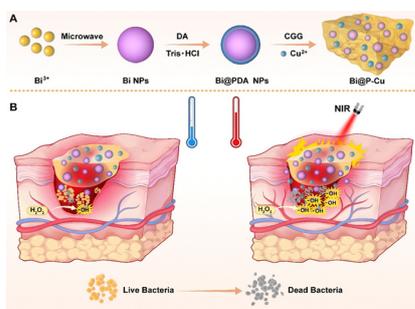
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Detecting labile heme and ferroptosis through 'turn-on' fluorescence and lipid droplet localization post Fe²⁺ sensing

Yogesh Dubey, Shabnam Mansuri and Sriram Kanvah*

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A bismuth-based double-network hydrogel-mediated synergistic photothermal-chemodynamic therapy for accelerated wound healing

Linyan Song, Kui Luo, Chen Liu,* Huanying Zhao, Ling Ye* and Hao Wang*

