

Journal of Materials Chemistry B

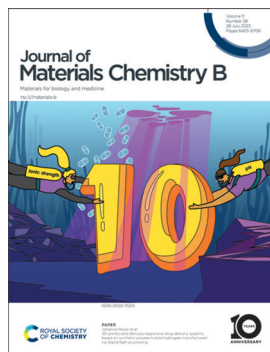
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Cover

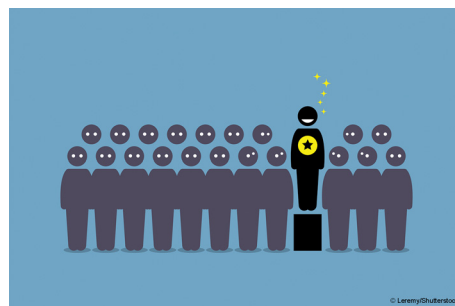
See Johanna Meyer et al.,
pp. 6547–6559.

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EDITORIAL

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Outstanding Reviewers for *Journal of Materials Chemistry B* in 2022

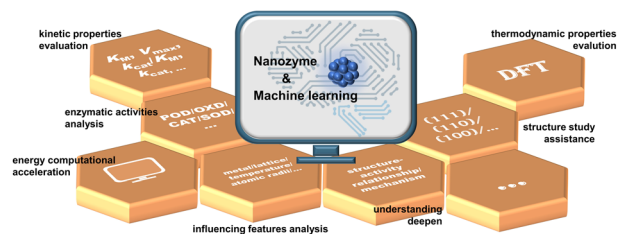


REVIEWS

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Machine learning facilitating the rational design of nanozymes

Yucong Li, Ruofei Zhang, Xiyun Yan* and Kelong Fan*



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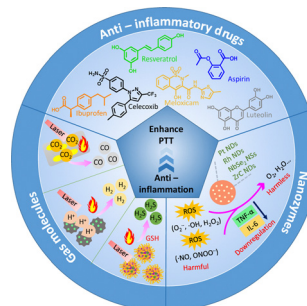


REVIEWS

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Anti-inflammatory strategies for photothermal therapy of cancer

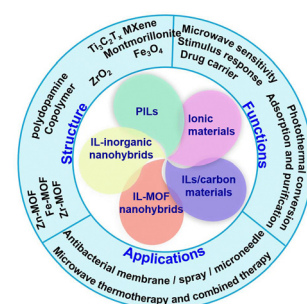
Mingwan Shi, Xiaohan Liu, Wei Pan,* Na Li and Bo Tang*



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Advances of ionic liquid-based nanohybrids for biomedical applications

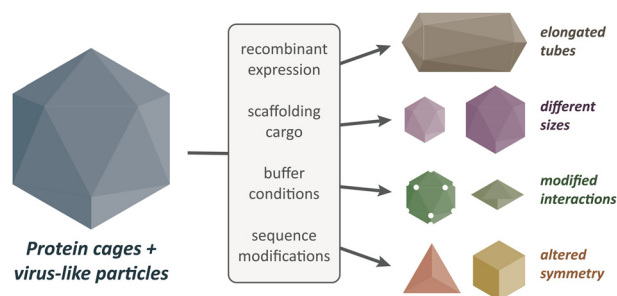
Lin-Yu Li, Yi-Ru Gao, Rong Xue, Yang Shu,* Jian-Hua Wang and Ze-Jun Wang*



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Structural polymorphism in protein cages and virus-like particles

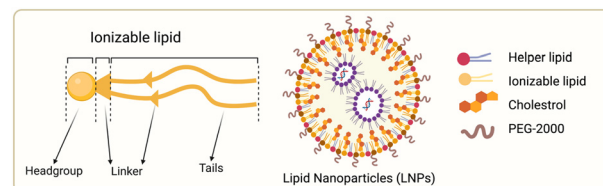
Felicia Lie, Taylor N. Szyszka and Yu Heng Lau*



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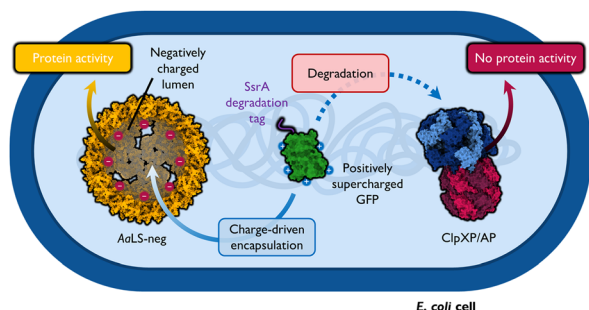
Rational design and combinatorial chemistry of ionizable lipids for RNA delivery

Yue Xu, Alex Golubovic, Shufen Xu, Anni Pan and Bowen Li*



COMMUNICATION

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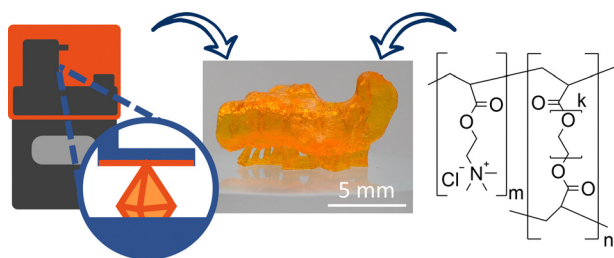


Complementary charge-driven encapsulation of functional protein by engineered protein cages *in cellulo*

Daniel Zakaszewski, Lukasz Koziej, Jędrzej Pankowski, V. Vishal Malolan, Nina Gämperli, Jonathan G. Heddle, Donald Hilvert and Yusuke Azuma*

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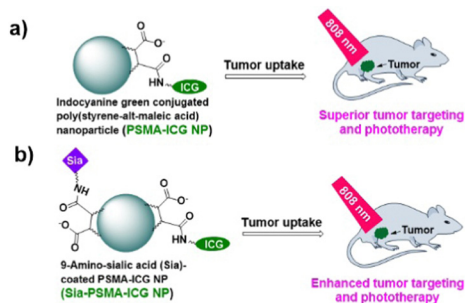
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3D printed and stimulus responsive drug delivery systems based on synthetic polyelectrolyte hydrogels manufactured *via* digital light processing

Sonja Vaupel, Robert Mau, Selin Kara, Hermann Seitz, Udo Kragl and Johanna Meyer*

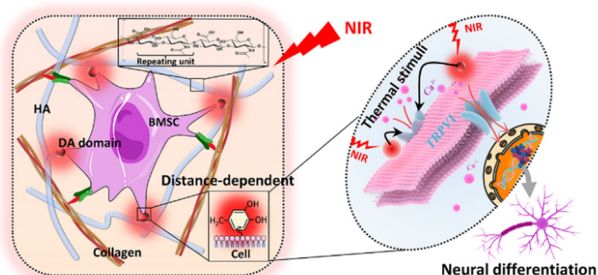
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Development of superior nanotheranostic agents with indocyanine green-conjugated poly(styrene-*alt*-maleic acid) nanoparticles for tumor imaging and phototherapy

Jiale Wang, Chendong Yang, Yanan Gao and Xuanjun Wu*

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Bioactive cell niche mediating uniform thermal stimulus for BMSC neural differentiation through TRPV1 channel activation

Dan Wei, Mingze Zeng, Borui Su, Yusheng Zhang, Kai Wu, Ting Zhou, Chengheng Wu, Jing Sun and Hongsong Fan*

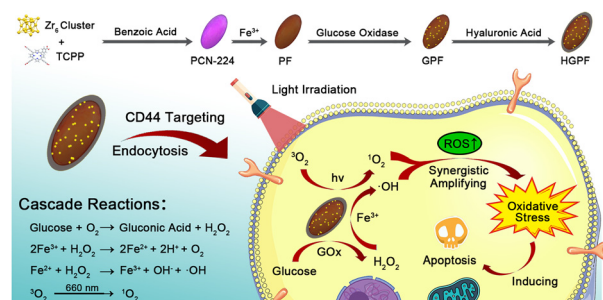


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A porphyrin-MOF-based integrated nanozyme system for catalytic cascades and light-enhanced synergistic amplification of cellular oxidative stress

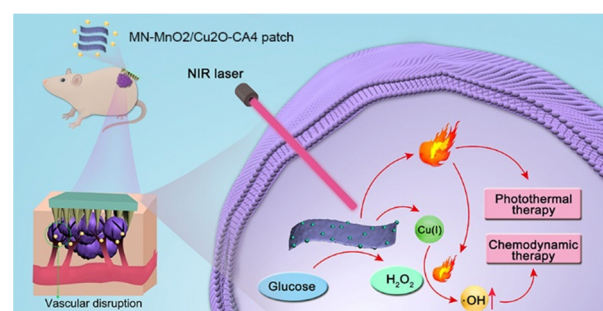
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Nanozyme-integrated microneedle patch for enhanced therapy of cutaneous squamous cell carcinoma by breaking the gap between H₂O₂ self-supplying chemodynamic therapy and photothermal therapy

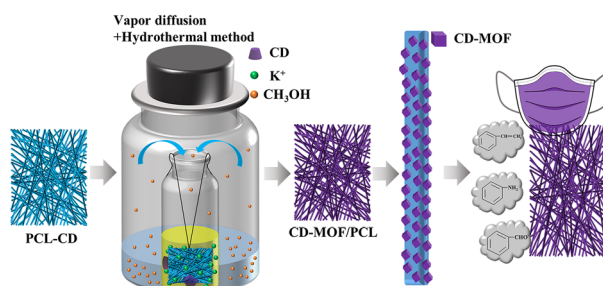
Enguo Ju, Mengran Peng, Yanteng Xu, Yuqin Wang, Feng Zhou, Haixia Wang, Mingqiang Li, Yue Zheng* and Yu Tao*



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In situ cyclodextrin metal-organic framework/electrospun composite fibers with biosafety for the removal of volatile organic compounds

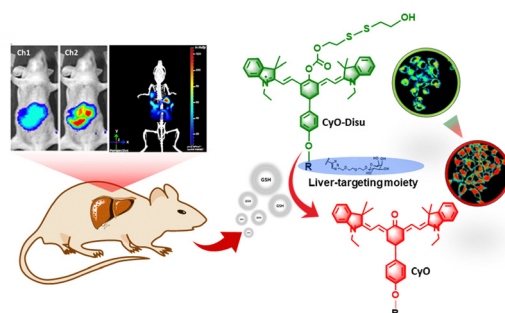
Chucheng Wang, Zhilin Huang, Zixin Huang, Leyan Feng and Hong Li*



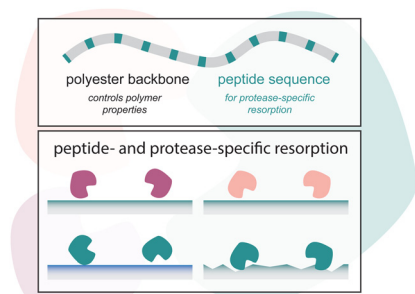
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Bioimaging of glutathione variation for early diagnosis of hepatocellular carcinoma using a liver-targeting ratiometric near-infrared fluorescent probe

Xiaoyue Han, Yanlong Xing,* Xinyu Song, Kun Dou, Fabiao Yu* and Lingxin Chen*



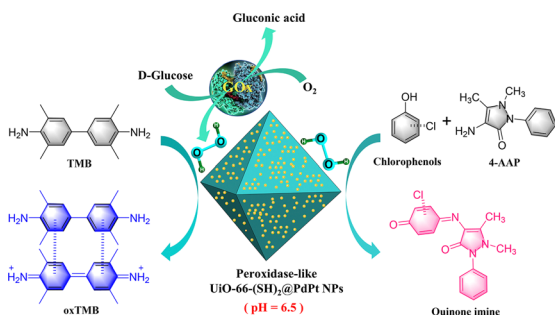
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Rational design of poly(peptide-ester) block copolymers for enzyme-specific surface resorption

Stephanie L. Fung, Jarrod P. Cohen, E. Thomas Pashuck, Catherine E. Miles, Joseph W. Freeman* and Joachim Kohn

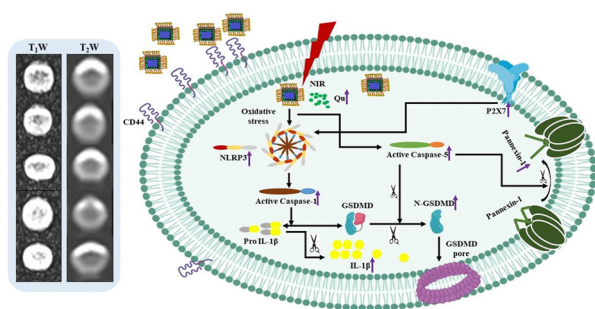
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A PdPt nanoparticle-decorated thiol-functionalized MOF with high peroxidase-like activity for colorimetric sensing of D-glucose and chlorophenol isomers

Yuanqing Luo, Shiwen Zhou, Weiwei Chen, Yaqin Liu, Hongru Feng* and Yuanjiang Pan*

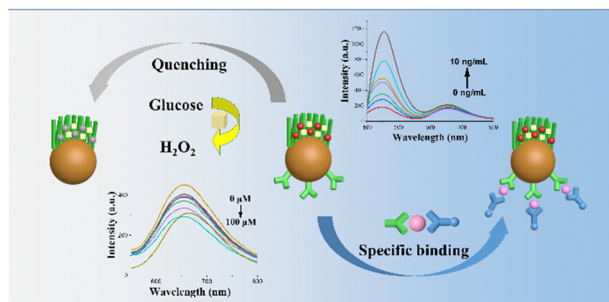
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Quercetin@Gd³⁺ doped Prussian blue nanocubes induce the pyroptotic death of MDA-MB-231 cells: combinational targeted multimodal therapy, dual modal MRI, intuitive modelling of r_1 – r_2 relaxivities

Panchanan Sahoo, Pulak Jana, Sudip Kundu, Snehasis Mishra, Krishnananda Chattopadhyay, Abhishek Mukherjee* and Chandan Kumar Ghosh*

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Preparation of Janus fluorescent probe based on an asymmetrical silica and its application in glucose and alpha-fetoprotein detection

Wei Wan, Xiangling Ren,* Junrui Tan, Longfei Tan, Changhui Fu, Qiong Wu, Zengzhen Chen, Jun Ren, Zhongbing Huang* and Xianwei Meng*

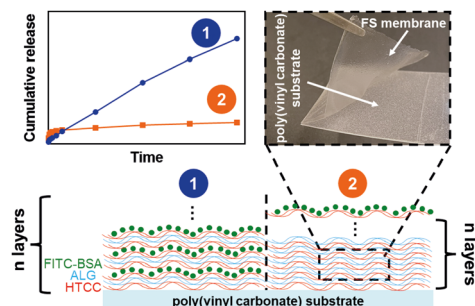


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Marine-origin polysaccharides-based free-standing multilayered membranes as sustainable nanoreservoirs for controlled drug delivery

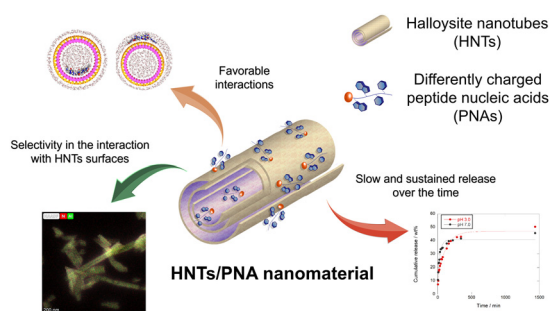
Cristiana F. V. Sousa, Luís P. G. Monteiro, João M. M. Rodrigues, João Borges* and João F. Mano*



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Exploiting the interaction between halloysite and charged PNAs for their controlled release

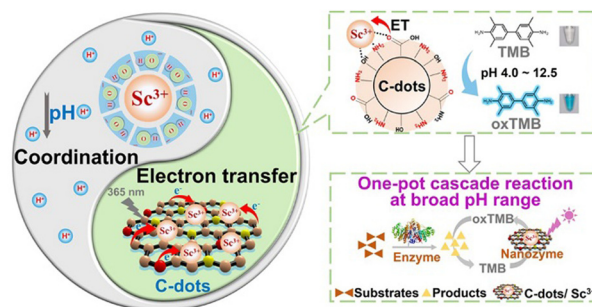
Serena Riela, Ana Borrego-Sánchez, Silvia Cauteruccio,* Raquel de Melo Barbosa, Marina Massaro,* C. Ignacio Sainz-Díaz, Rita Sánchez-Espejo, César Viseras-Iborra and Emanuela Licandro



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Light-activated carbon dot nanozyme with scandium for a highly efficient and pH-universal bio-nanozyme cascade colorimetric assay

Xueshan Chen, Yao Lin, Jing Liao, Jinyi Zhang* and Chengbin Zheng*



CORRECTION

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Correction: 3D printed and stimulus responsive drug delivery systems based on synthetic polyelectrolyte hydrogels manufactured via digital light processing

Sonja Vaupel, Robert Mau, Selin Kara, Hermann Seitz, Udo Kragl and Johanna Meyer*

