

Journal of Materials Chemistry B

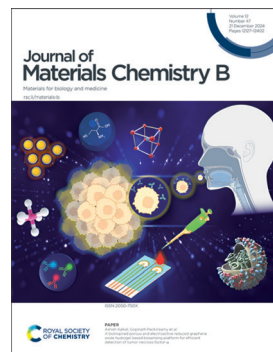
Materials for biology and medicine

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Cover

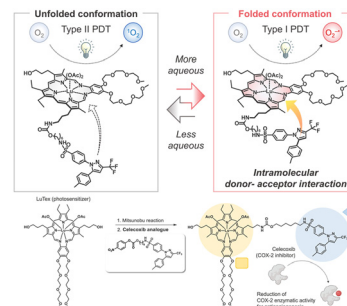
See Ashish Kalkal, Gopinath Packirisamy *et al.*, pp. 12207–12219. Image reproduced by permission of Gopinath Packirisamy from *J. Mater. Chem. B*, 2024, **12**, 12207. Created in BioRender.

HIGHLIGHTS

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Breakthrough in cancer therapy: lutetium texaphyrin–celecoxib conjugate for immune and photodynamic treatment

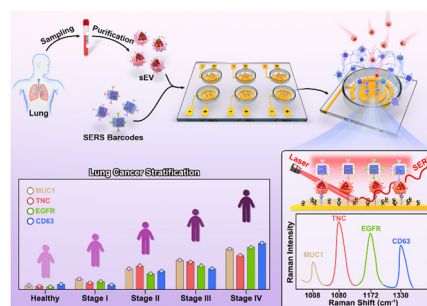
Qihang Ding, Yue Wang, Pengfei Zhang* and Ling Mei*



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An innovative electrohydrodynamics-driven SERS platform for molecular stratification and treatment monitoring of lung cancer

Tuotuo Zhang, Biao Dong,* Huiling Wang* and Shuai Zhang*



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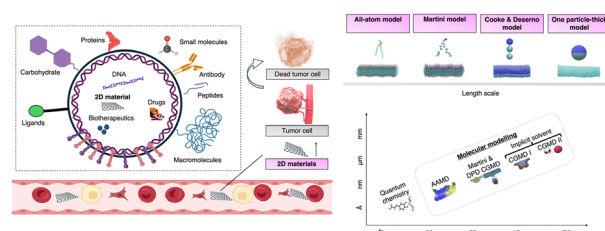
Fundamental questions
Elemental answers

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Nanomaterials and methods for cancer therapy: 2D materials, biomolecules, and molecular dynamics simulations

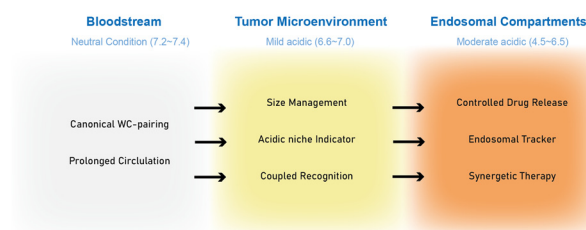
Welela M. Kedir, Lunna Li, Yaw Sing Tan, Natasa Bajalovic* and Desmond K. Loke*



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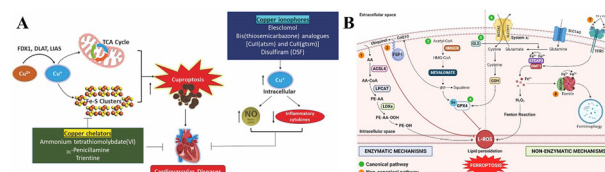
Liyue Wen and Min Wang*



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Cuproptosis in cancer therapy: mechanisms, therapeutic application and future prospects

Jiawei Hu, Junfei Zhu, Tao Chen, Yudie Zhao, Qingwen Xu* and Yan Wang*

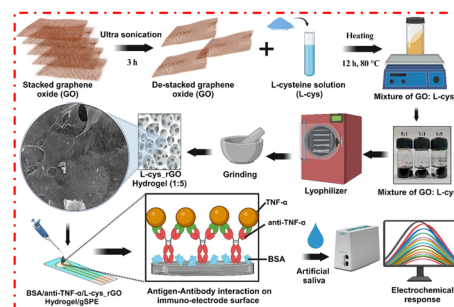


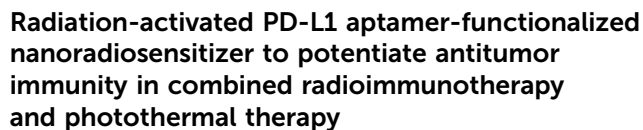
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A bioinspired porous and electroactive reduced graphene oxide hydrogel based biosensing platform for efficient detection of tumor necrosis factor- α

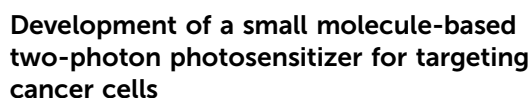
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Bo Chen, Yinbo He, Long Bai, Shulin Pan,
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Peter Ernst Huber, Bingwen Zou* and Gang Guo*

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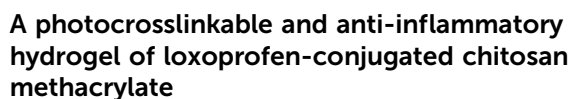
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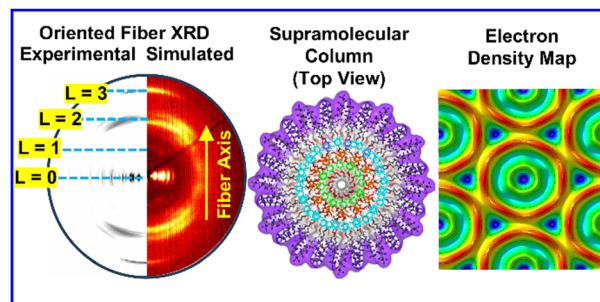
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Porous helical supramolecular columns self-organized via the fluorophobic effect of a semifluorinated tapered dendron

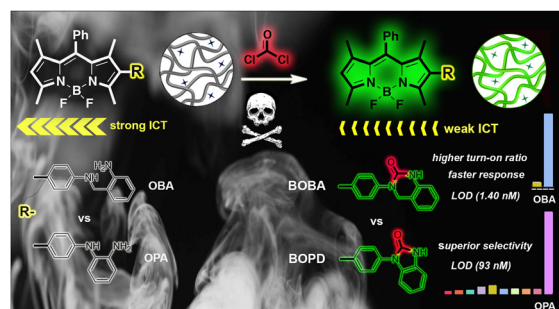
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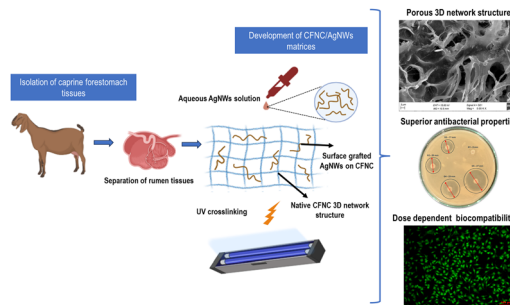
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Decellularization of caprine forestomach rumen tissue modified with silver nanowires as an antibacterial skin substitute scaffold in wound care therapeutics

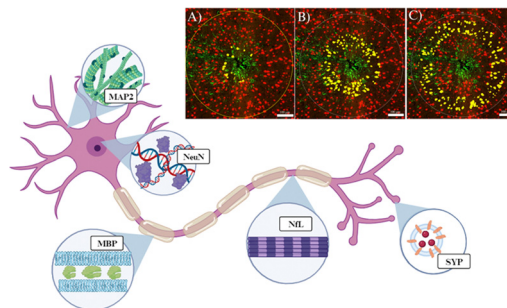
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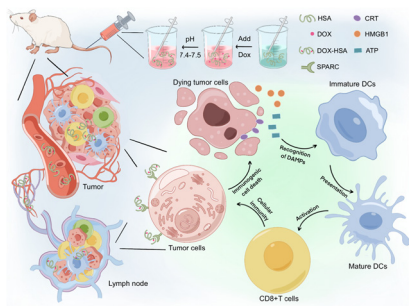
Cell-specific spatial profiling of targeted protein expression to characterize the impact of intracortical microelectrode implantation on neuronal health

Lindsey N. Druschel, Niveda M. Kasthuri, Sydney S. Song, Jaime J. Wang, Allison Hess-Dunning, E. Ricky Chan and Jeffrey R. Capadona*



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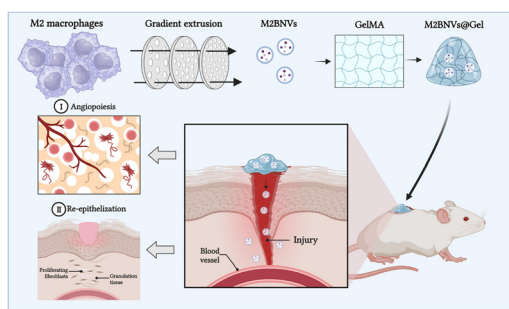
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A biomimetic solution, albumin–doxorubicin molecular complex, targeting tumor and tumor-draining lymph nodes

Rui Guo, Lanlan Zhong, Sirui Ma, Bokai Gong, Chen Shen, Zijun Wang, Li Deng, Dong Zhao, Huile Gao and Tao Gong*

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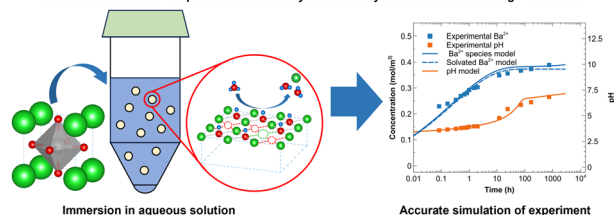


Bioinspired nanovesicles derived from macrophage accelerate wound healing by promoting angiogenesis and collagen deposition

Tingrui Zhang, Zongguang Tai, Fengze Miao, Yingchao Zhao, Weifan Wang, Quangang Zhu* and Zhongjian Chen*

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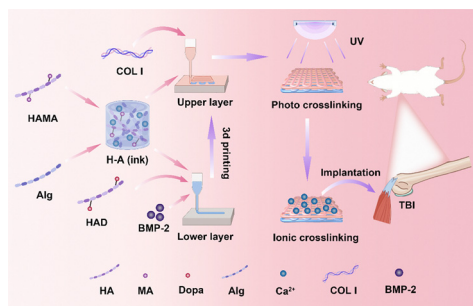
BaTiO₃ leaches continuously up to 31 days in aqueous solution, and BaCO₃ formation contributes to the dissolution behavior. The process is accurately described by an Unreacted Shrinking Core model.



Long-term leaching kinetics and solution chemistry of aqueous BaTiO₃ powder suspensions: a numerical model supported experiment

Marcus Bentzen,* Vojtěch Lindauer, Pavel Mokry, Ragnhild Elizabeth Aune and Julia Glaum

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3D-printed biomimetic scaffolds loaded with ADSCs and BMP-2 for enhanced rotator cuff repair

Zhonglian Wu, Jian Yang, Hui Chong,* Xiaomei Dai, Haidi Sun, Junli Shi, Meijuan Yuan, Dianwei Liu, Mengbo Dang, Hang Yao* and Wenyong Fei*

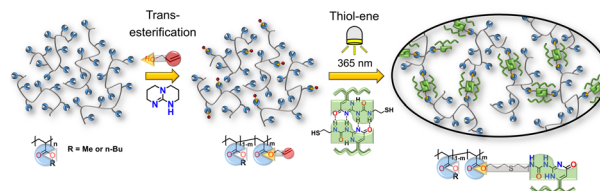


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Physically crosslinked polyacrylates by quadruple hydrogen bonding side chains

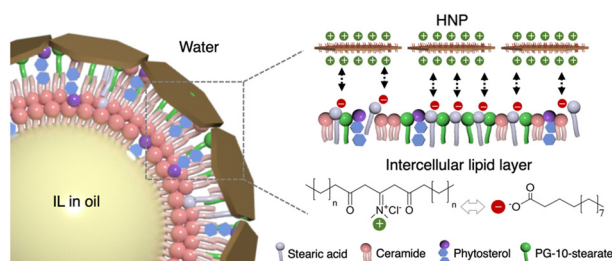
Jente Verjans, Alexis André, Tomáš Sedláčik, Resat Aksakal, Evelyne van Ruymbeke* and Richard Hoogenboom*



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Intercellular lipid-cored, hectorite nanoplatelet-armored pickering emulsions with enhanced transdermal delivery and epidermal hydration

Boryeong Lee, Lakshmishri Prabakaran, Minkyung Jang, Song Hua Xuan, Kyounghee Shin, Sung Ho Lee* and Jin Woong Kim*



CORRECTION

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Correction: Understanding selective sensing of human serum albumin using a D- π -A probe: a photophysical and computational approach

Anamika Bandyopadhyay and Anupam Bhattacharya*

