

Nanoscale Horizons

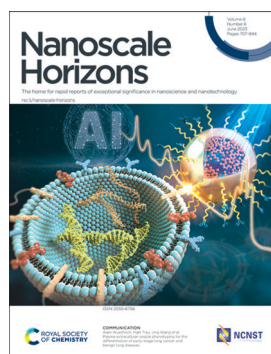
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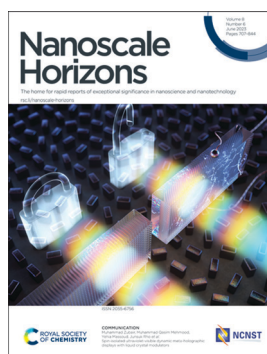
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See Alain Wuethrich, Matt Trau, Jing Wang *et al.*, pp. 746–758. Image reproduced by permission of Jing Wang from *Nanoscale Horiz.*, 2023, 8, 746.



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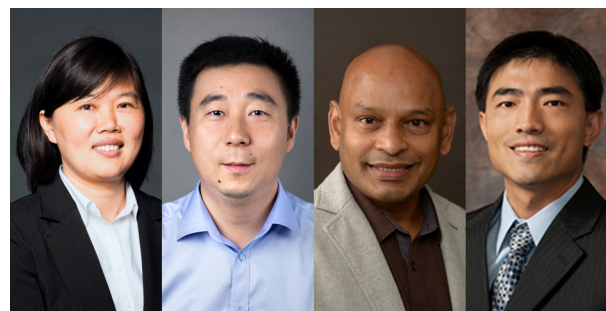
See Muhammad Zubair, Muhammad Qasim Mehmood, Yehia Massoud, Junsuk Rho *et al.*, pp. 759–766. Image reproduced by permission of Prof. Dr Yehia Massoud from *Nanoscale Horiz.*, 2023, 8, 759.

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Introduction to new horizons in materials for energy conversion, optics and electronics

Jinlan Wang,* Yuanjian Zhang,* Seeram Ramakrishna* and Guihua Yu*

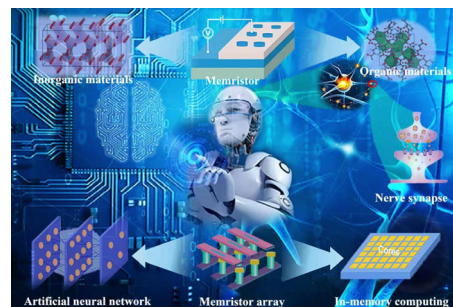


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Memristor-based neural networks: a bridge from device to artificial intelligence

Zelin Cao, Bai Sun,* Guangdong Zhou, Shuangso Mao, Shouhui Zhu, Jie Zhang, Chuan Ke, Yong Zhao and Jinyou Shao*



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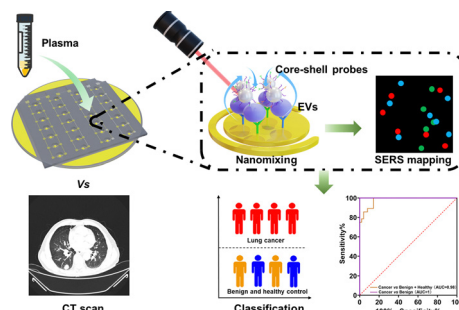
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Plasma extracellular vesicle phenotyping for the differentiation of early-stage lung cancer and benign lung diseases

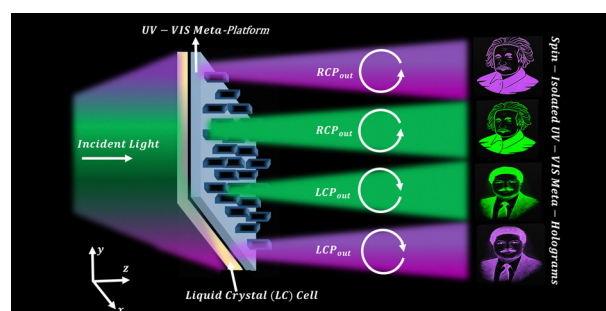
Liwen Yuan, Yanpin Chen, Longfeng Ke, Quan Zhou, Jiayou Chen, Min Fan, Alain Wuethrich,* Matt Trau* and Jing Wang*



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Spin-isolated ultraviolet-visible dynamic meta-holographic displays with liquid crystal modulators

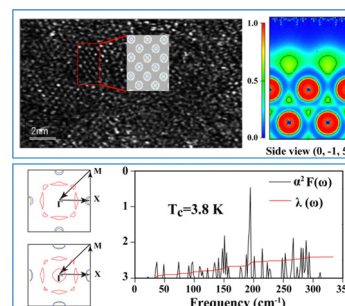
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A novel two-dimensional superconducting Ti layer: density functional theory and electron-beam irradiation

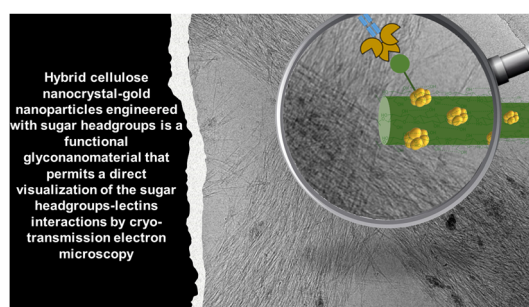
Xiao-Min Zhang, Jiawei Tang, Jing Zhang, Jin Yu, Litao Sun, Zhiqing Yang,* Ke Xia* and Weiwei Sun*



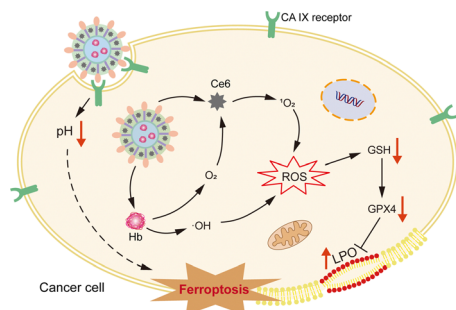
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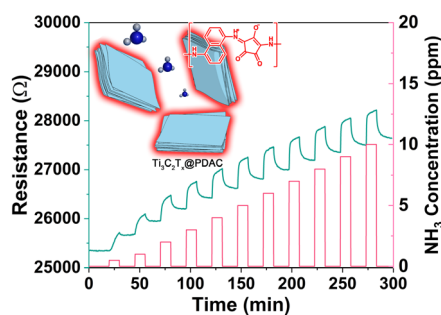
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Nian Liu, Qian Lin, Wenbao Zuo, Weibin Chen, Shan Huang, Yinshu Han, Xing-Jie Liang,* Xuan Zhu* and Shuidong Huo*

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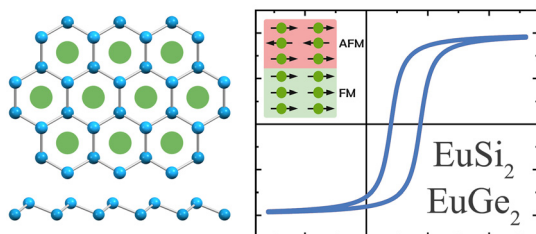


An ultra-sensitive NH₃ gas sensor enabled by an ion-in-conjugated polycroconaine/Ti₃C₂T_x core-shell composite

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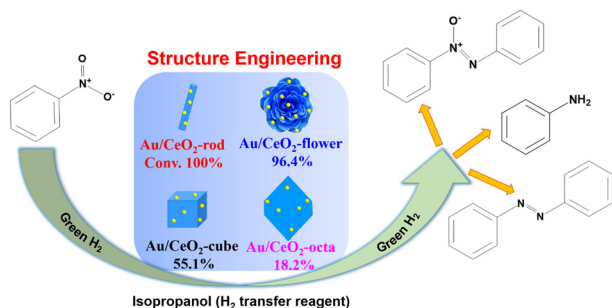
exchange bias state



Intrinsic exchange bias state in silicene and germanene materials EuX₂

Dmitry V. Averyanov, Ivan S. Sokolov, Alexander N. Taldenkov, Oleg E. Parfenov, Igor A. Karateev, Oleg A. Kondratev, Andrey M. Tokmachev and Vyacheslav G. Storchak*

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