

# Nanoscale Horizons

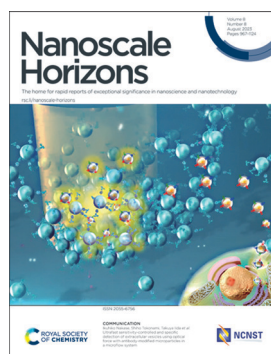
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ISSN 2055-6756 CODEN NHAOAW 8(8) 967-1124 (2023)



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See Ikuhiko Nakase, Shiho Tokonami, Takuya Iida *et al.*, pp. 1034–1042. Image reproduced by permission of Takuya Iida from *Nanoscale Horiz.*, 2023, 8, 1034.



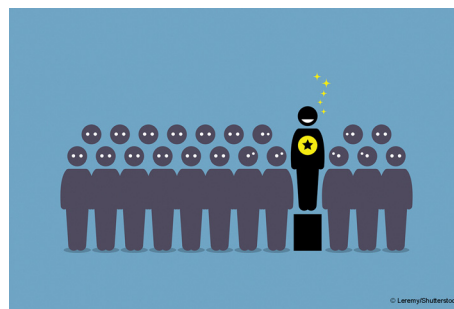
### Inside cover

See Xing-Jie Liang, Qian Hua *et al.*, pp. 976–990. Image reproduced by permission of Ya-Li Zhang, Xing-Jie Liang and Qian Hua from *Nanoscale Horiz.*, 2023, 8, 976.

## EDITORIAL

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### Outstanding Reviewers for *Nanoscale Horizons* in 2022

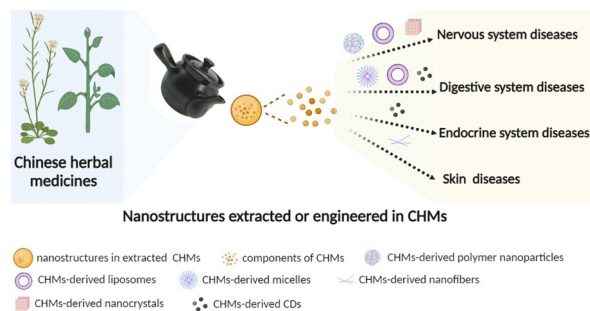


## REVIEWS

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### Nanostructures in Chinese herbal medicines (CHMs) for potential therapy

Ya-Li Zhang, Ya-Lei Wang, Ke Yan, Qi-Qi Deng, Fang-Zhou Li, Xing-Jie Liang\* and Qian Hua\*



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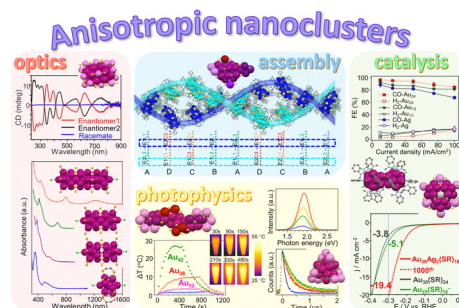


## REVIEWS

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## Shape control with atomic precision: anisotropic nanoclusters of noble metals

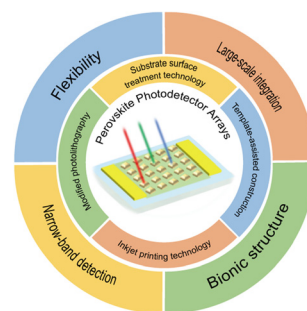
Yingwei Li\* and Rongchao Jin\*



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## Recent progress in construction methods and applications of perovskite photodetector arrays

Hui Lu, Wenqiang Wu, Zeping He, Xun Han\* and Caofeng Pan\*

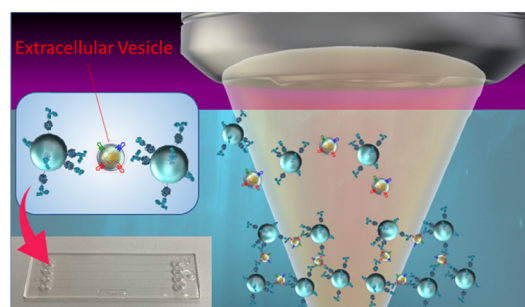


## COMMUNICATIONS

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## Ultrafast sensitivity-controlled and specific detection of extracellular vesicles using optical force with antibody-modified microparticles in a microflow system

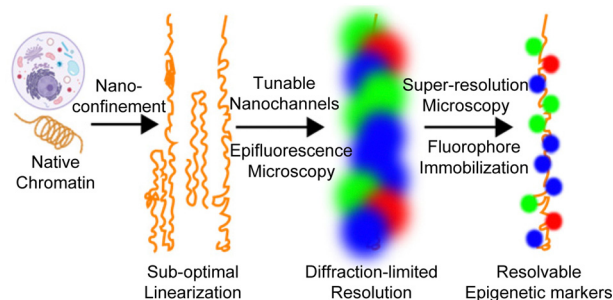
Kana Fujiwara, Yumiko Takagi, Mamoru Tamura, Mika Omura, Kenta Morimoto, Ikuhiko Nakase,\* Shiho Tokonami\* and Takuya Iida\*



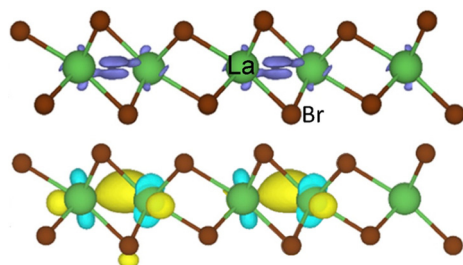
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## Super-resolution imaging of linearized chromatin in tunable nanochannels

Ji-Hoon Lee, Joyce Han-Ching Chiu, Nicholas J. Ginga, Tasdiq Ahmed, M. D. Thouless, Yifan Liu\* and Shuichi Takayama\*



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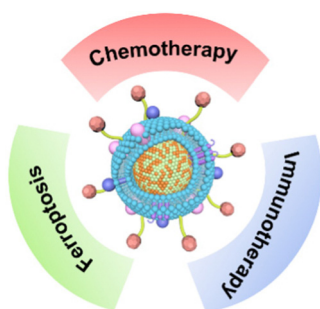


Magnetic electride with CDW phase

### Coexistence of ferromagnetism and charge density waves in monolayer $\text{LaBr}_2$

Jun Zhou, Zishen Wang, Shijie Wang, Yuan Ping Feng,\*  
Ming Yang\* and Lei Shen\*

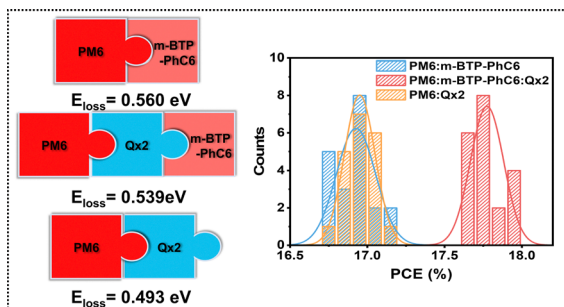
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### Engineering magnetotactic bacteria MVs to synergize chemotherapy, ferroptosis and immunotherapy for augmented antitumor therapy

Gexuan Jiang, Zhichu Xiang\* and Qiaojun Fang\*

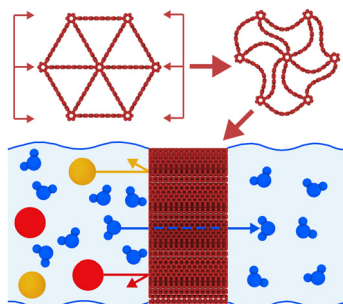
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### Improving the efficiency of ternary organic solar cells by reducing energy loss

Mengni Wang, Yanan Shi, Ziqi Zhang, Yifan Shen, Min Lv,  
Yangjun Yan, Huiqion Zhou, Jianqi Zhang, Kun Lv,  
Yajie Zhang,\* Hailin Peng and Zhixiang Wei\*

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### Graphene foam membranes with tunable pore size for next-generation reverse osmosis water desalination

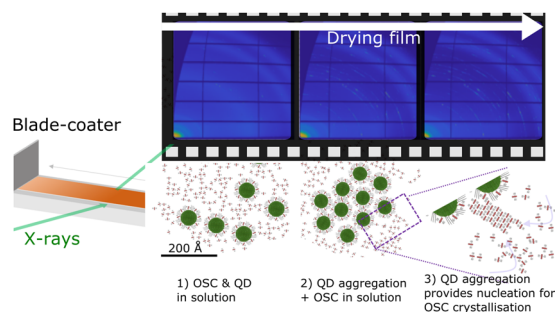
Duc Tam Ho, Thi Phuong Nga Nguyen, Arun Jangir and  
Udo Schwingschlögl\*



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### Insights into the kinetics and self-assembly order of small-molecule organic semiconductor/quantum dot blends during blade coating

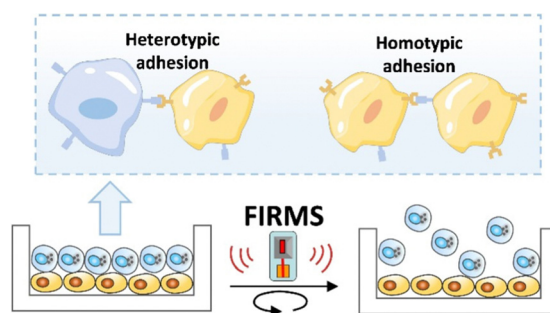
Daniel T. W. Toolan,\* Michael P. Weir, Shuangqing Wang, Simon A. Dowland, Zhilong Zhang, James Xiao, Jonathan Rawle, Neil Greenham, Richard H. Friend, Akshay Rao, Richard A. L. Jones and Anthony J. Ryan



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### Homotypic and heterotypic adhesion of cancer cells revealed by force-induced remnant magnetization spectroscopy

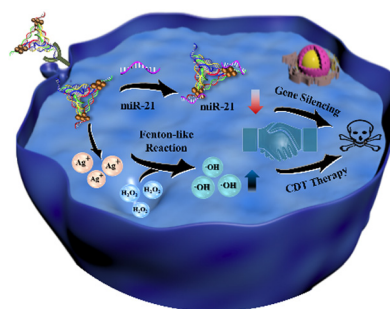
Jinxiu Zhan, Di Zhang, Feng Feng, Min Xu and Li Yao\*



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### Multifunctional DNA nanoprobe for tumor-targeted synergistic therapy by integrating chemodynamic therapy with gene silencing

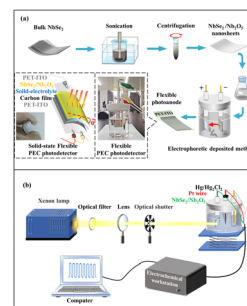
Qiaorong Tang, Qianqian Li, Lu Shi, Wei Liu, Baoxin Li and Yan Jin\*



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### Two dimensional NbSe<sub>2</sub>/Nb<sub>2</sub>O<sub>5</sub> metal–semiconductor heterostructure-based photoelectrochemical photodetector with fast response and high flexibility

Xiang Xu,\* Chunhui Lu, Ying Wang, Xing Bai, Zenghui Liu, Ying Zhang and Dengxin Hua



## CORRECTION

1122

**Correction: Multiplexed molecular imaging with surface enhanced resonance Raman scattering nanoprobe reveals immunotherapy response in mice *via* multichannel image segmentation**

Chrysafis Andreou,\* Konstantinos Plakas, Naxhije Berisha, Mathieu Gigoux, Lauren E. Rosch, Rustin Mirsafavi, Anton Oseledchik, Suchetan Pal, Dmitriy Zamarin, Taha Merghoub, Michael R. Detty and Moritz F. Kircher

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