

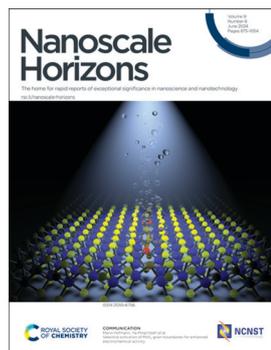
# Nanoscale Horizons

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See Mario Hofmann, Ya-Ping Hsieh *et al.*, pp. 946–955. Image reproduced by permission of Mario Hofmann from *Nanoscale Horiz.*, 2024, 9, 946.



### Inside cover

See Lutz Mädler *et al.*, pp. 956–967. Image reproduced by permission of Jan Derk Groeneveld from *Nanoscale Horiz.*, 2024, 9, 956.

## EDITORIAL

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### Nanoscale Horizons Emerging Investigator Series: Dr Baisheng Sa, Fuzhou University, China

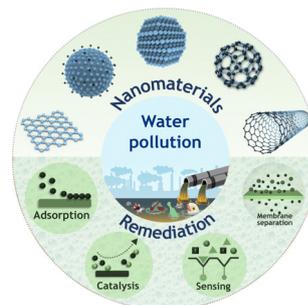


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### Nanoscience and nanotechnology for water remediation: an earnest hope toward sustainability

Subhajit Dutta,\* Anna Sinelshchikova, Jacopo Andrea and Stefan Wuttke\*



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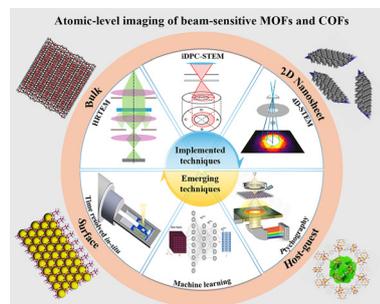


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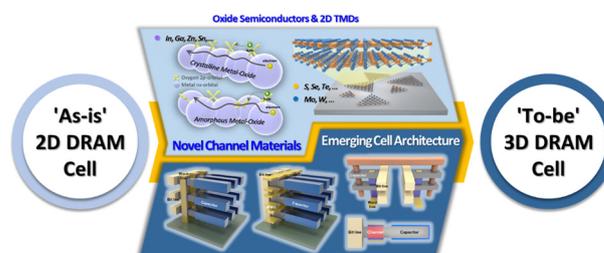
Zhen Zhan, Yuxin Liu, Weizhen Wang, Guangyu Du, Songhua Cai\* and Peng Wang\*



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Jae Seok Hur, Sungsoo Lee, Jiwon Moon, Hang-Gyo Jung, Jongwook Jeon, Seong Hun Yoon, Jin-Hong Park\* and Jae Kyeong Jeong\*

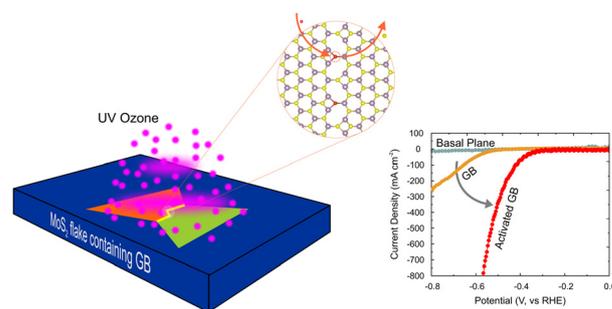


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Selective activation of MoS<sub>2</sub> grain boundaries for enhanced electrochemical activity

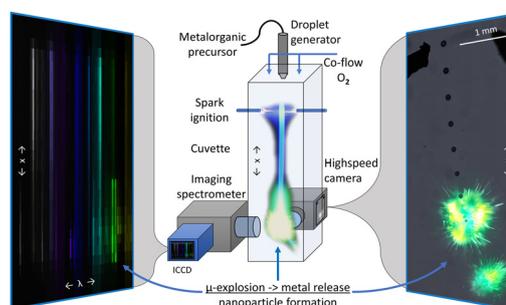
Radha Raman, Jeyavelan Muthu, Zhi-Long Yen, Mohammad Qorbani, Yu-Xiang Chen, Ding-Rui Chen, Mario Hofmann\* and Ya-Ping Hsieh\*



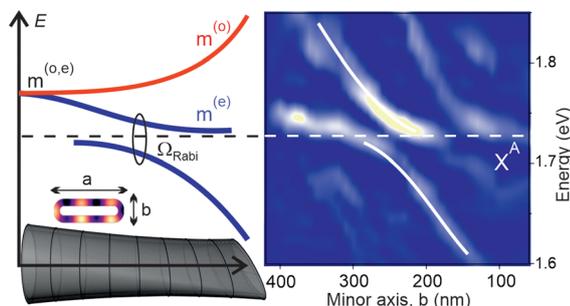
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## Flame emission spectroscopy of single droplet micro explosions

Jan Derk Groeneveld, Suman Pokhrel and Lutz Mädler\*



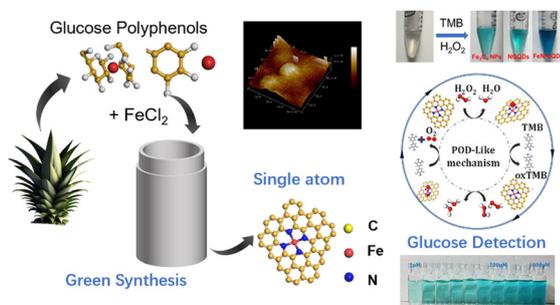
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### Direct observation of split-mode exciton-polaritons in a single MoS<sub>2</sub> nanotube

A. I. Galimov, D. R. Kazanov, A. V. Poshakinskiy, M. V. Rakhlin, I. A. Eliseyev, A. A. Toropov, M. Remškar and T. V. Shubina\*

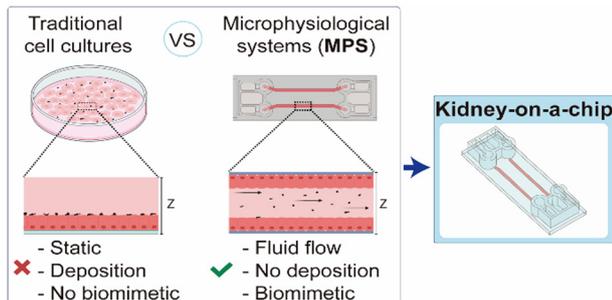
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### Green synthesis of iron-doped graphene quantum dots: an efficient nanozyme for glucose sensing

Xinqi Li, Guanyou Lin, Lijun Zhou, Octavia Prosser, Mohammad H. Malakooti\* and Miqin Zhang\*

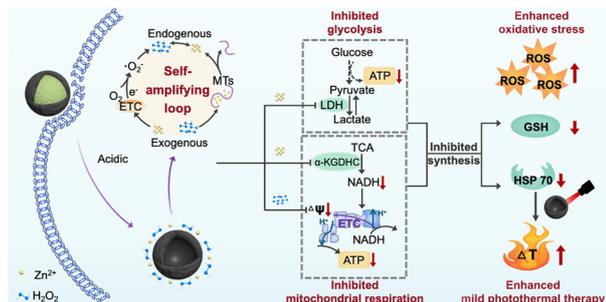
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Alodia Lacueva-Aparicio, Viviana Jehová González, Ana Rosa Remacha, Daniel Woods, Eduardo Prado, Ignacio Ochoa, Sara Oliván\* and Ester Vázquez\*

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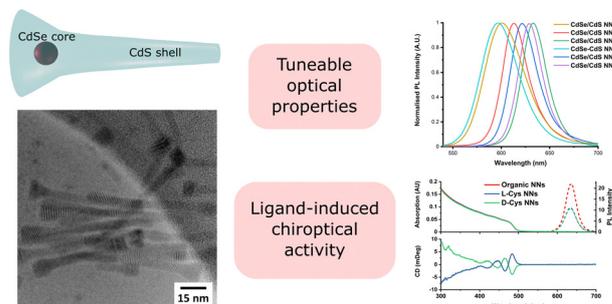
Yue Qiao, Xiaodan Jia, Yue Wang, Lin Liu,\* Mengchao Zhang\* and Xiue Jiang\*



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## Chiroptically active quantum nanonails

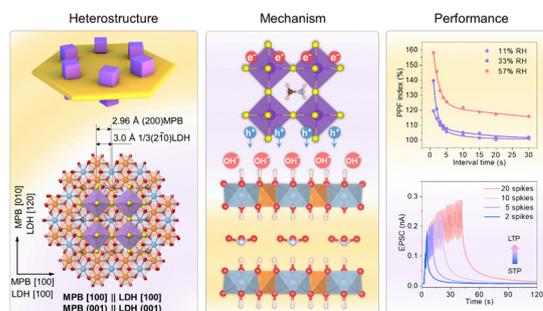
Finn Purcell-Milton,\* Vera A. Kuznetsova,\* Xue Bai,  
Áine Coogan, Marina Martínez-Carmona,  
Jorge A. García, A. Louise Bradley and Yurii K. Gun'ko\*



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Heterointerface engineering of layered double hydroxide/MAPbBr<sub>3</sub> heterostructures enabling tunable synapse behaviors in a two-terminal optoelectronic device

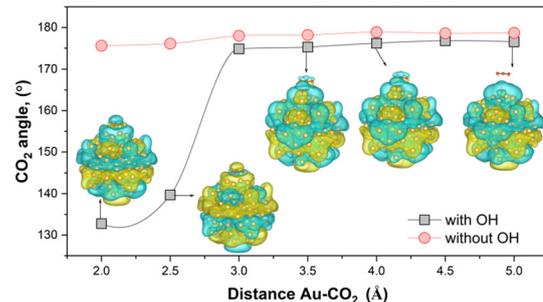
Qian Chen, Jiacheng Cao, Zhiwei Yang, Zeyi Wang,  
Jian Wang, Shilong Yu, Chenjie Hao, Nana Wang,  
Hai Li and Xiao Huang\*



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*Ab initio* investigation of hot electron transfer in CO<sub>2</sub> plasmonic photocatalysis in the presence of hydroxyl adsorbate

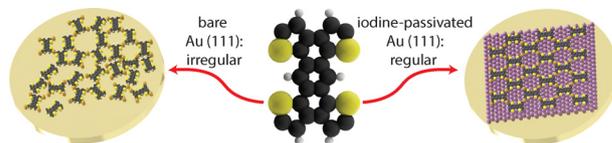
Zelio Fusco,\* Dirk Koenig, Sean C. Smith and  
Fiona Jean Beck



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## Iodine passivation facilitates on-surface synthesis of robust regular conjugated two-dimensional organogold networks on Au(111)

Arash Badami-Behjat, Gianluca Galeotti, Rico Gutzler,  
Dominik L. Pastoetter, Wolfgang M. Heckl, Xinliang Feng  
and Markus Lackinger\*



## CORRECTION

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**Correction: Pickering emulsion templated proteinaceous microparticles as glutathione-responsive carriers for endocytosis in tumor cells**

Weijie Jiang, Xin Guan, Wei Liu, Yunxing Li, Hang Jiang\* and To Ngai\*

