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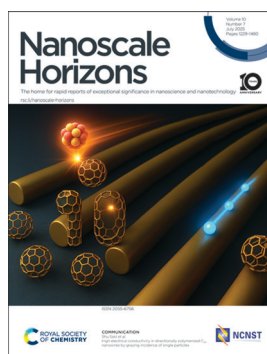
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See Sourav Biswas, Yuichi Negishi *et al.*, pp. 1250–1267. Image reproduced by permission of Yuichi Negishi from *Nanoscale Horiz.*, 2025, 10, 1250.



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## Superfluorescent upconversion nanoparticles as an emerging second generation quantum technology material

Lewis E. MacKenzie\* and Peter Kirton

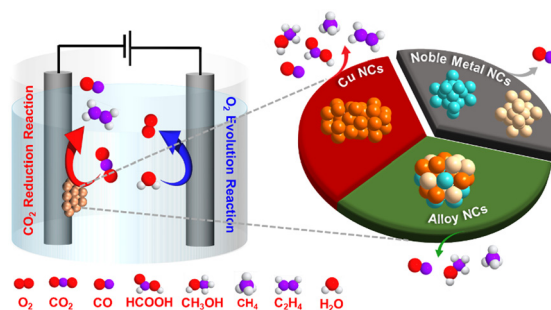


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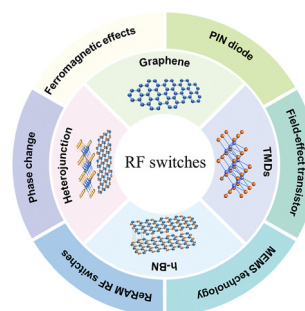
Mandira Ghosh, Rupa Sarma, Maho Kamiyama, Tokuhisa Kawawaki, Sourav Biswas\* and Yuichi Negishi\*



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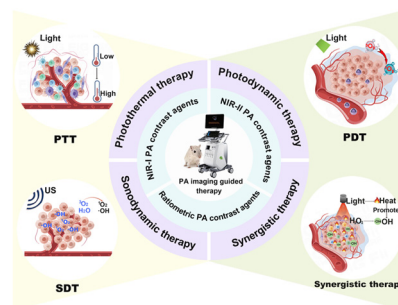
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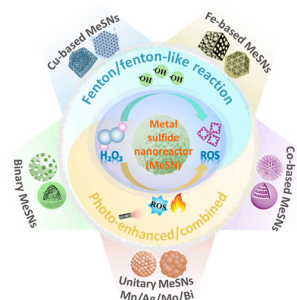
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Xiao Yang, Zeyu Jiang, Jiayong Dai,\* Qinrui Fu\* and Shuhan Pan\*



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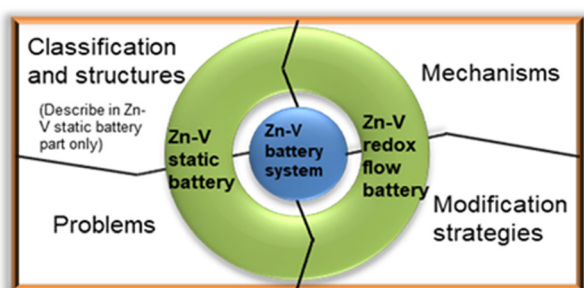
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### Bioactive metal sulfide nanomaterials as photo-enhanced chemodynamic nanoreactors for tumor therapy

Houjuan Zhu, Chui Yu Chan, Jerry Zhi Xiong Heng, Karen Yuanting Tang, Casandra Hui Teng Chai, Hui Ling Tan, Xian Jun Loh,\* Enyi Ye\* and Zibiao Li\*

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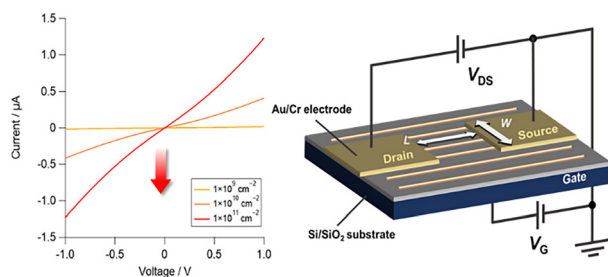


### A comprehensive analysis from the basics to the application of V-cathodes in Zn–V static and flow batteries

Yufei Li, Jie Chen and Guanjie He\*

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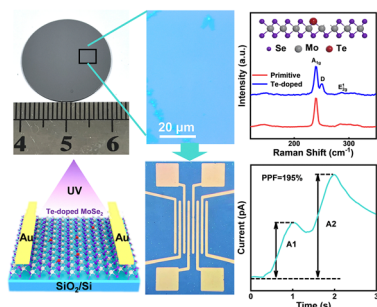
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### High electrical conductivity in directionally polymerized C<sub>60</sub> nanowires by grazing incidence of single particles

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### Optoelectronic synapses realized on large-scale continuous MoSe<sub>2</sub> with Te doping induced tunable memory functions

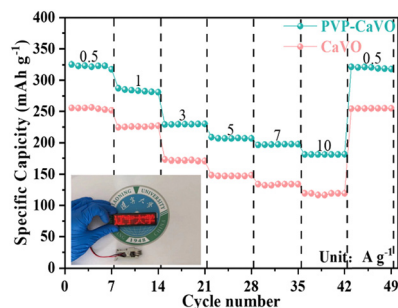
Yongqi Hu, Yunan Lin, Xutao Zhang, Yanlu Zhao, Lan Li, Yinuo Zhang, Hong Lei and Yi Pan\*



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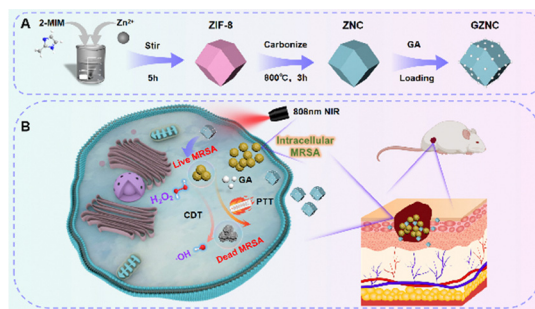
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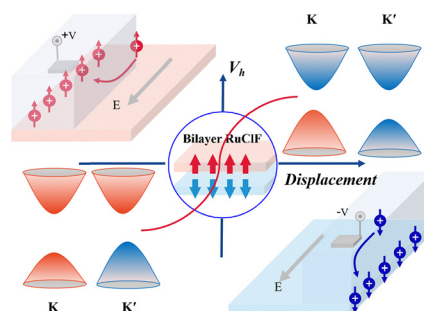
Yaling Liu, Shuwen Sun, Chunyao Shang, Rongji Liu, Chenhao Zhang, Jing Yu, Kai Dong,\* Chen Xu\* and Fangfang Cao\*



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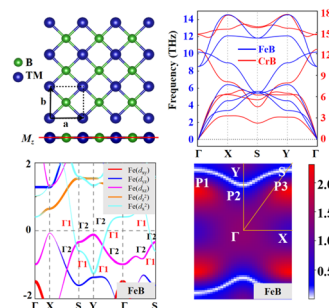
Nini Guo, Jie Li, Huijie Lian, Shu Wang, Yi Sun,\* Xiaojing Yao\* and Xiuyun Zhang\*



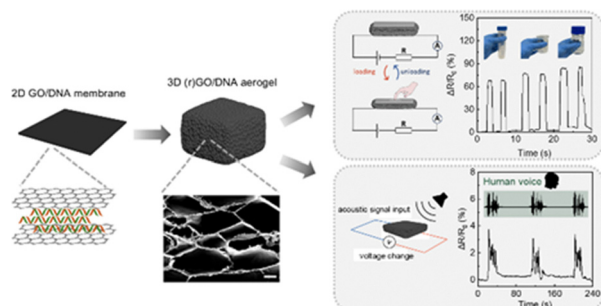
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Chenqian Yan, Yuqing Mao, Jie Li, Zijin Wang, Ailei He,\* Yuanyuan Duan and Xiuyun Zhang\*



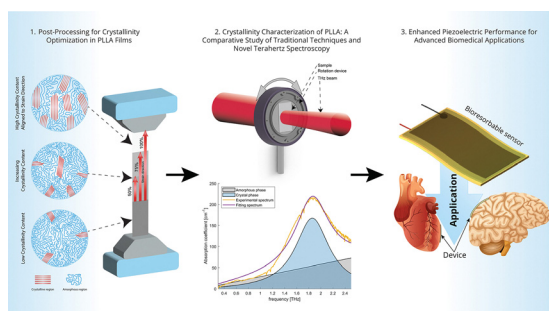
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Youssef Merhi,\* Vincent Goumarre, Konstantin Romanyuk, Yasith Amarasinghe, Andrei Kholkin, Pernille Klarskov and Shweta Agarwala\*

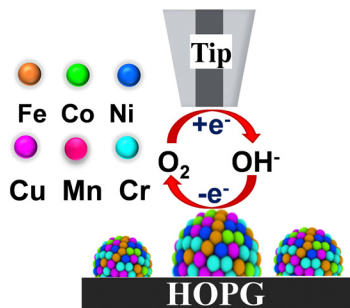
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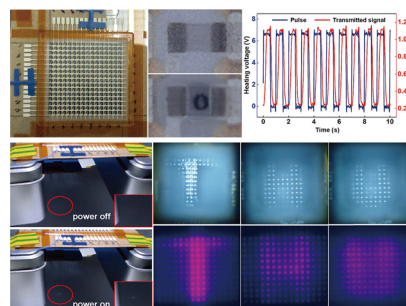
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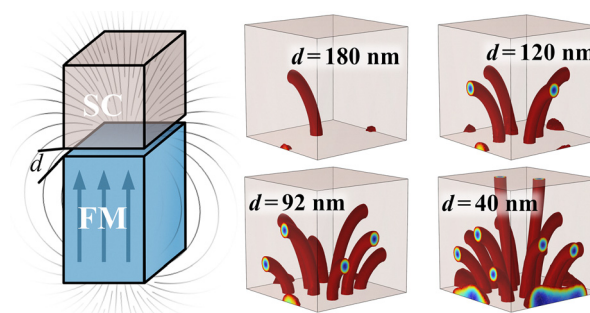
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Priya Gupta, Harshdeep Kaur, Mohammad Anees, Sachchidanand Tiwari, Ankushi Bansal and Harpal Singh\*

