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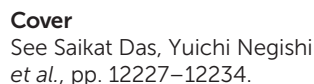


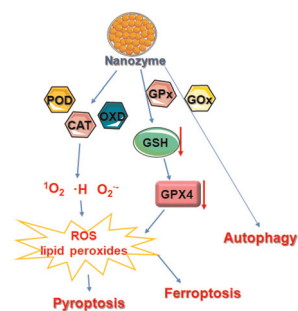
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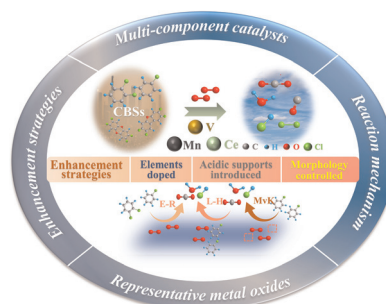
## 12137

Yuan Zhang,\* Wanpeng Yu, Mengmeng Chen,  
Bingqiang Zhang, Lei Zhang and Peifeng Li\*



## Research advances in chlorinated benzene-containing compound oxidation catalyzed by metal oxides: activity-enhanced strategies and reaction-facilitated mechanisms

Ning Luo, Fengyu Gao, Du Chen, Erhong Duan,  
Zaharaddeen Sani, Honghong Yi and Xiaolong Tang\*



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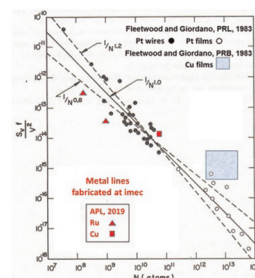


## REVIEWS

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## Low-frequency noise in nanowires

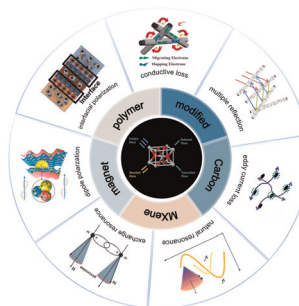
Daniel M. Fleetwood

After D. M. Fleetwood, et al., *Appl. Phys. Lett.*, 2019, **114**, 203501.

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Recent progress in TiO<sub>2</sub>-based microwave absorption materials

Yifan Fei, Wenling Jiao,\* Zhengchen Wu, Zaihui Yang, Wei Cheng and Renchao Che\*

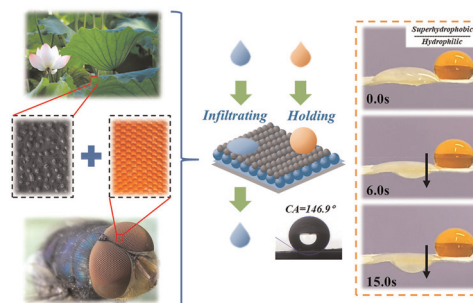


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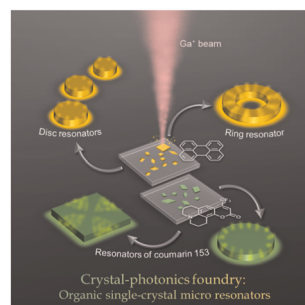
Lihao Zhang, Yufei Chen, Yue Cao, Sunlong Li, Weipeng Lu, Wei Cao, Jialiang Zhu, Weiting Bao, Ming Shao, Zhixing Gan, Yunsong Di, Fangjian Xing, Xiang Li, Liang Zhang\* and Cihui Liu\*



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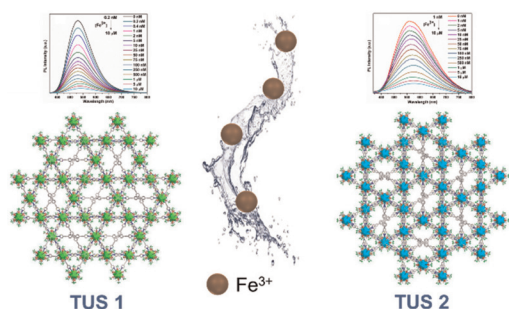
## Crystal photonics foundry: geometrical shaping of molecular single crystals into next generation optical cavities

Vuppu Vinay Pradeep, Melchi Chosenyah, Evgeniy Mamonov\* and Rajadurai Chandrasekar\*



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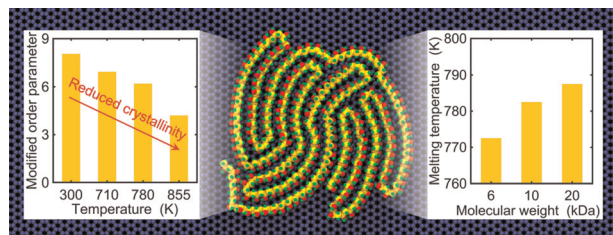
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### Synthesis and luminescence properties of two silver cluster-assembled materials for selective $\text{Fe}^{3+}$ sensing

Jin Sakai, Sourav Biswas, Tsukasa Irie, Haruna Mabuchi, Taishu Sekine, Yoshiki Niihori, Saikat Das\* and Yuichi Negishi\*

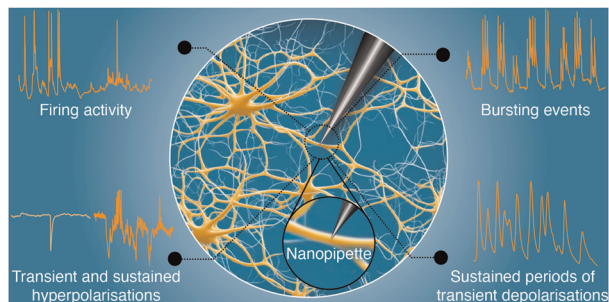
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### Crystallization and melting of polymer chains on graphene and graphene oxide

Arman Ghasemi, Yangchao Liao, Zhaofan Li, Wenjie Xia\* and Wei Gao\*

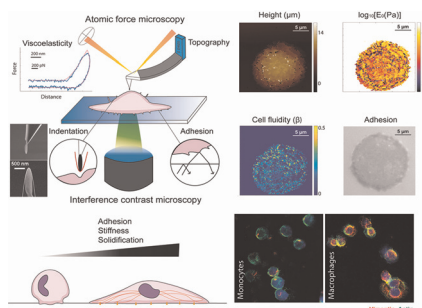
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### Diversity of dynamic voltage patterns in neuronal dendrites revealed by nanopipette electrophysiology

Jeffrey Mc Hugh,\* Stanislaw Makarchuk, Daria Mozheiko, Ana Fernandez-Villegas, Gabriele S. Kaminski Schierle, Clemens F. Kaminski, Ulrich F. Keyser, David Holcman and Nathalie Rouach\*

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### Coupled mechanical mapping and interference contrast microscopy reveal viscoelastic and adhesion hallmarks of monocyte differentiation into macrophages

Mar Eroles, Javier Lopez-Alonso, Alexandre Ortega, Thomas Boudier, Khaldoun Gharzeddine, Frank Lafont, Clemens M Franz, Arnaud Millet, Claire Valotteau and Felix Rico\*

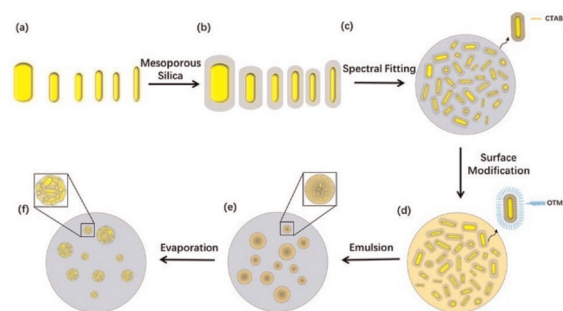


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**Superparticles of gold nanorods with controllable bandwidth and spectral shape for lipophilic SERS**

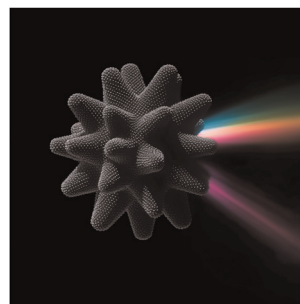
Xun Li, Xi Chen, Jie Liu, Xiaoyu Zhao, Jia Liu, Zhiquan Cheng and Tian-Song Deng\*



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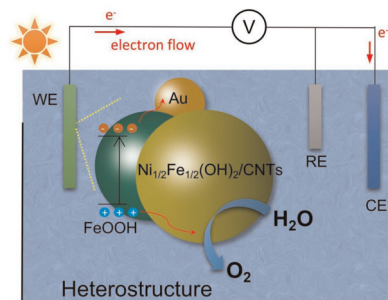
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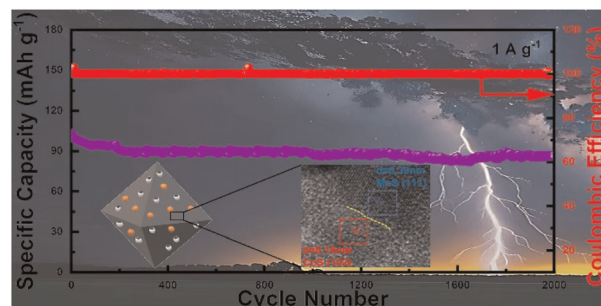
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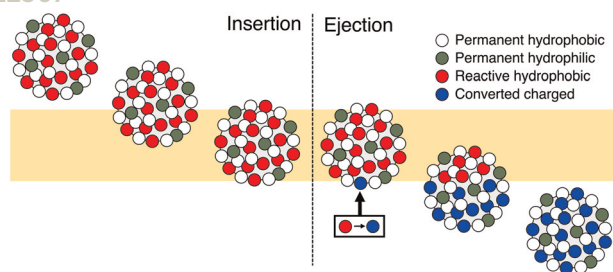
**A bimetallic metal–organic framework derived MnS/CoS@C heterostructure with enhanced sodium-ion storage**

Zongyuan Jiang, Shaohui Li, Yining Chen, Jingwei Chen, Cong Wei\* and Qun Xu\*



## PAPERS

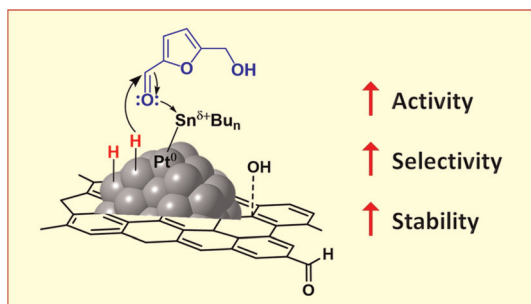
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## Non-equilibrium transport of nanoparticles across the lipid membrane

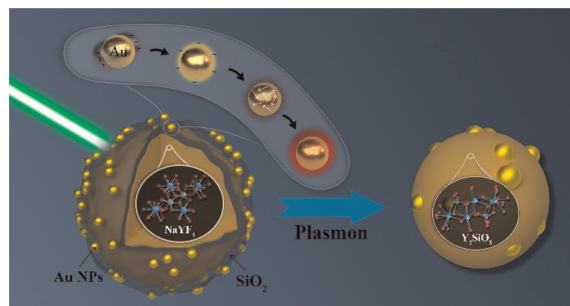
Younghoon Oh and Qiang Cui\*

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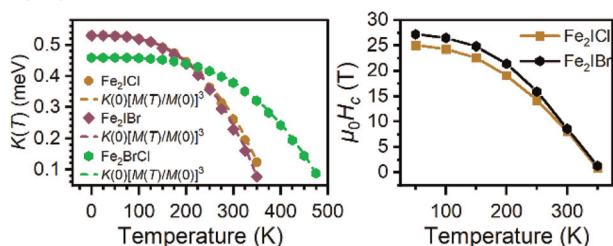
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Surface plasmon assisted preparation of X1-type  $\text{Y}_2\text{SiO}_5:\text{Eu}^{3+}$ -Au luminescent crystals

Lei Xi, Chengyun Zhang, Hairegu Tuxun, Baobao Zhang, Min Ji, Xilin Zhou, Wanqiu Liang, Jinyu Li, Huan Chen, Jinping Li,\* Zhengkun Fu,\* Zhenglong Zhang and Hairong Zheng

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Chenhai Shen,\* Xueping Li, Tianxing Wang, Guangtao Wang and Congxin Xia\*

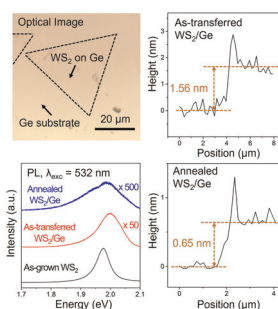


## PAPERS

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## Effects of post-transfer annealing and substrate interactions on the photoluminescence of 2D/3D monolayer WS<sub>2</sub>/Ge heterostructures

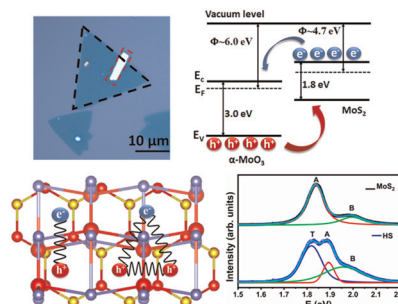
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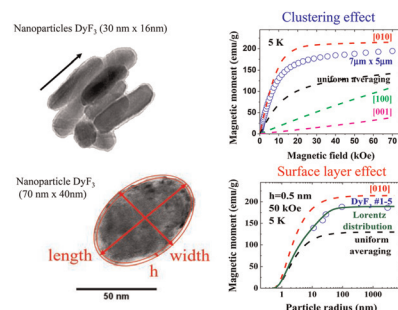
Ravindra Kumar, Vikash Mishra, Tejendra Dixit, Prahalad Kanti Barman, Pramoda K. Nayak\* and M. S. Ramachandra Rao\*



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## A study of the size and clustering effects of DyF<sub>3</sub> samples

Adeliya Garaeva, Irina Romanova, Ekaterina Boltchenkova\*, Marina Likholetova, Murat Tagirov and Egor Alakshin

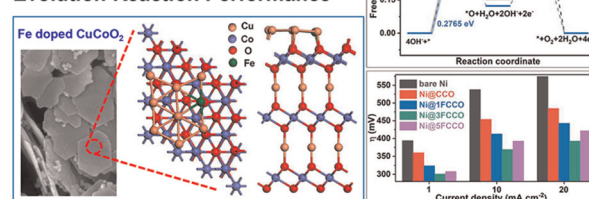


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## Gram-scale solvothermal synthesis of Fe-doped CuCoO<sub>2</sub> nanosheets and improvement of the oxygen evolution reaction performance

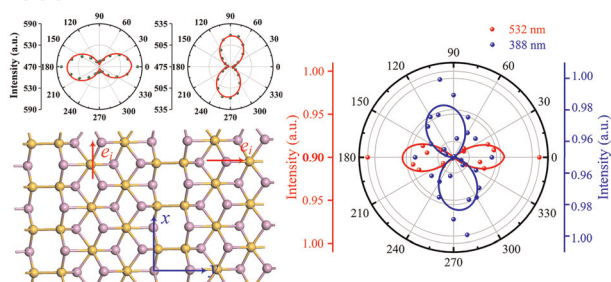
Miao Yang, Hao Tan, Shiyu Ma, Yue Mi, Lifeng Liu, Zongyan Zhao, Hong Li and Dehua Xiong\*

### Gram-scale Solvothermal Synthesis of Fe-doped CuCoO<sub>2</sub> Nanosheets and Improvement of Oxygen Evolution Reaction Performance



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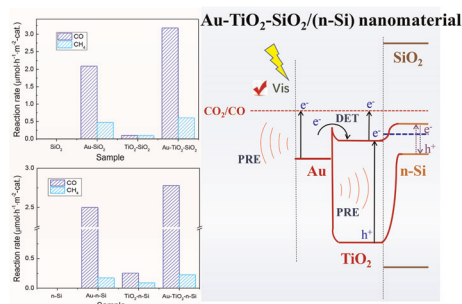
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### Observation of optical anisotropy and a linear dichroism transition in layered silicon phosphide

Xing Xie, Junnan Ding, Biao Wu, Haihong Zheng, Shaofei Li, Chang-Tian Wang, Jun He, Zongwen Liu, Jian-Tao Wang, Ji-an Duan\* and Yanping Liu\*

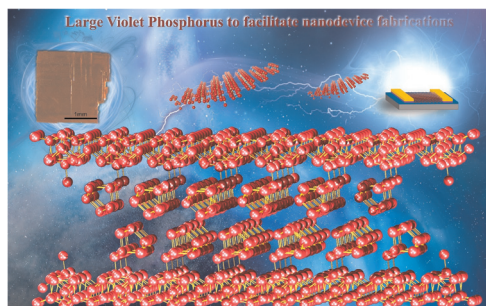
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### Plasmon photocatalytic CO<sub>2</sub> reduction reactions over Au particles on various substrates

Kai Wang and Tao He\*

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### Synthesis of violet phosphorus with large lateral sizes to facilitate nano-device fabrications

Yanhao Wang, Mengting Jin, Mengyue Gu, Xuewen Zhao, Jinan Xie, Guodong Meng, Yonghong Cheng, Jinjiang He\* and Jinying Zhang\*

