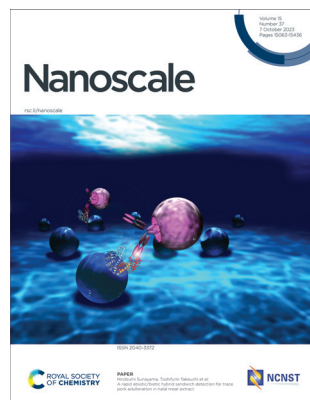


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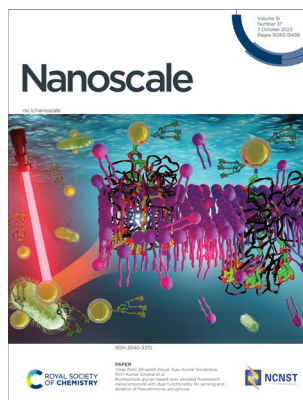
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See Hirobumi Sunayama, Toshifumi Takeuchi *et al.*, pp. 15171–15178.

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See Vikas Rishi, Bhupesh Goyal, Ajay Kumar Srivastava, Nitin Kumar Singhal *et al.*, pp. 15179–15195.

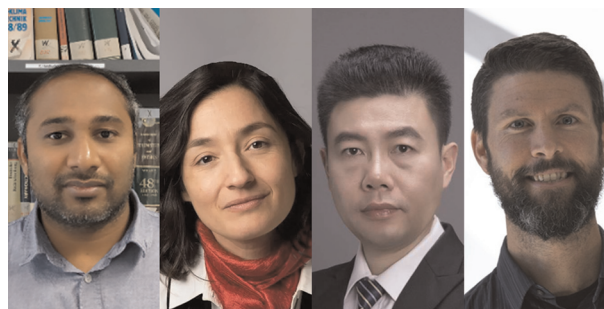
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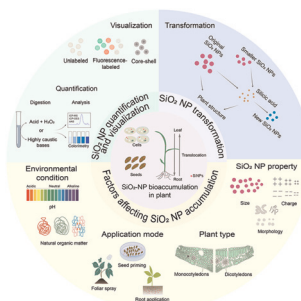


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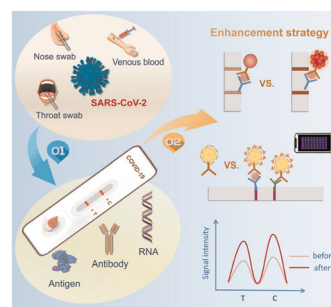


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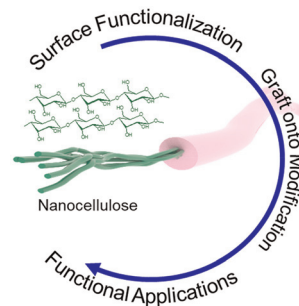
Qingwen Sun, Qihong Ning, Tangan Li, Qixia Jiang, Shaoqing Feng, Ning Tang, Daxiang Cui and Kan Wang\*



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**Graft onto approaches for nanocellulose-based advanced functional materials**

Chandravati Yadav, Jeong-Min Lee, Paritosh Mohanty, Xiping Li and Woo-Dong Jang\*

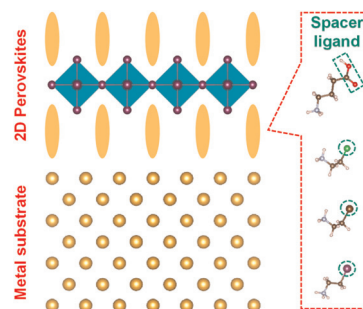


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**Modulating the Schottky barriers of metal–2D perovskite junctions through molecular engineering of spacer ligands**

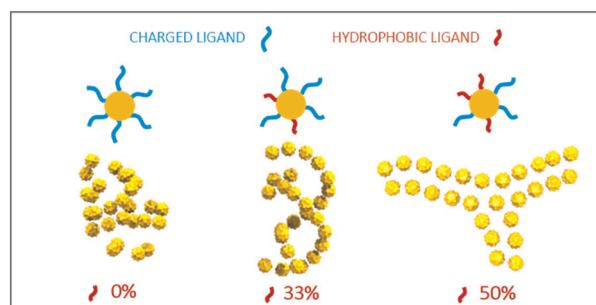
Zhuo Xu,\* Weidong Luo, Songyan Guo and Shengzhong Frank Liu\*



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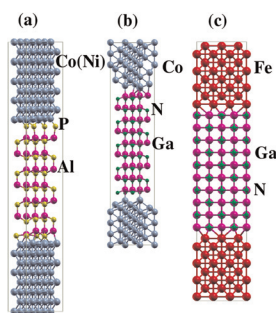
**Dumbbells, chains, and ribbons: anisotropic self-assembly of isotropic nanoparticles**

Enrico Lavagna, Sebastian Salassi, Davide Bochicchio and Giulia Rossi\*



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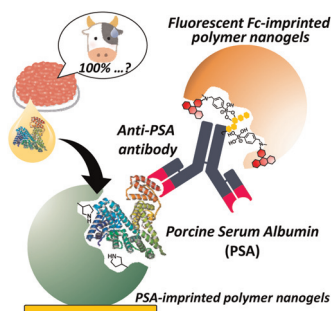


### Potential of AlP and GaN as barriers in magnetic tunnel junctions

Gokaran Shukla,\* Hasan M. Abdullah and Udo Schwingenschlög\*<sup>†</sup>

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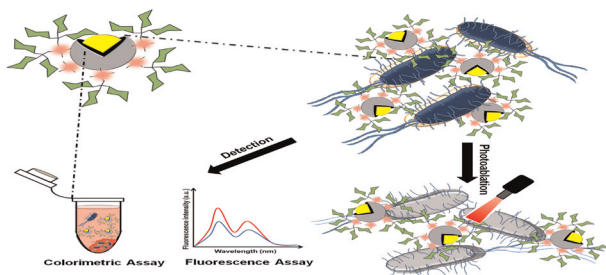
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### A rapid abiotic/biotic hybrid sandwich detection for trace pork adulteration in halal meat extract

Chehasan Cheubong, Hirobumi Sunayama,\* Eri Takano, Yukiya Kitayama, Hideto Minami and Toshifumi Takeuchi\*<sup>†</sup>

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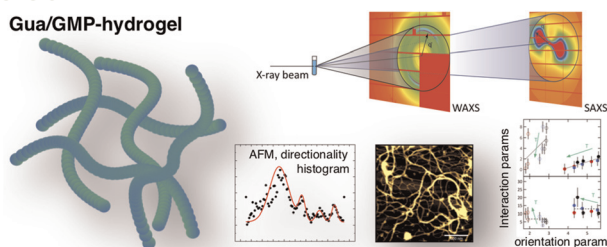


### Multiepitope glycan based laser assisted fluorescent nanocomposite with dual functionality for sensing and ablation of *Pseudomonas aeruginosa*

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### Self-oriented anisotropic structure of G-hydrogels as a delicate balance between attractive and repulsive forces

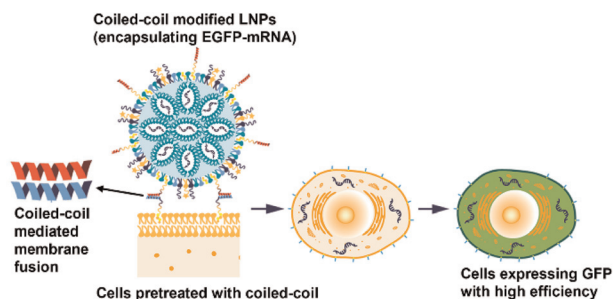
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### Efficient mRNA delivery using lipid nanoparticles modified with fusogenic coiled-coil peptides

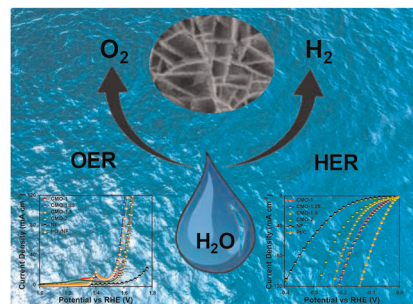
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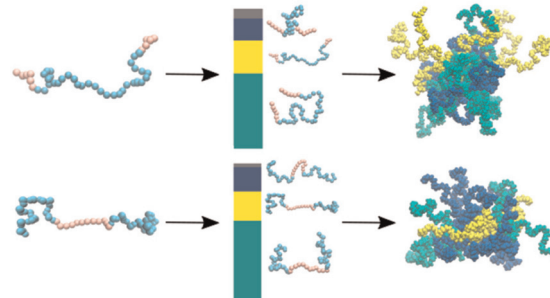
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### Topology-controlled self-assembly of amphiphilic block copolymers

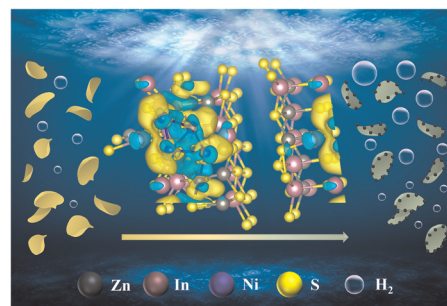
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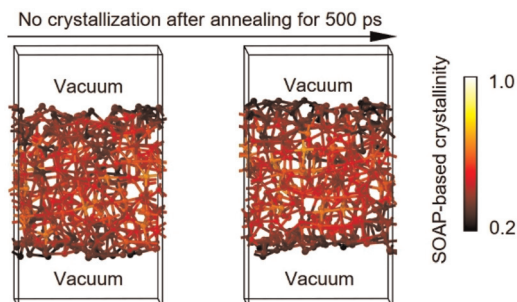
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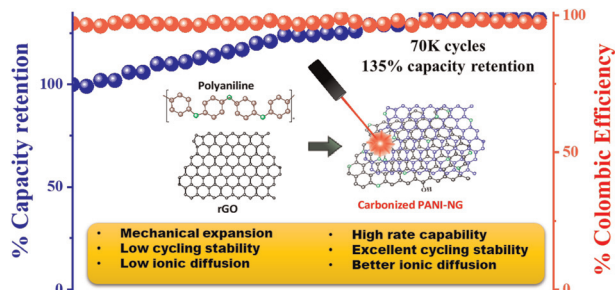
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### Surface effects on the crystallization kinetics of amorphous antimony

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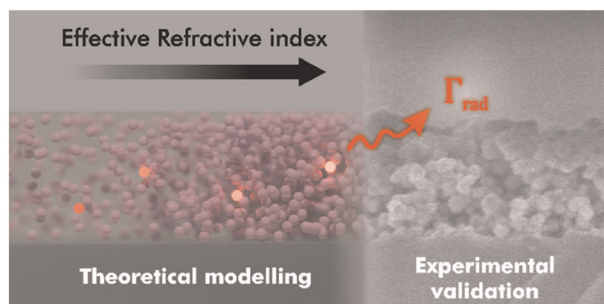
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### Laser-irradiated carbonized polyaniline-N-doped graphene heterostructure improves the cyclability of on-chip microsupercapacitor

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Manuel Romero, Juan Ramón Sánchez-Valencia, Gabriel Lozano\* and Hernán Míguez\*

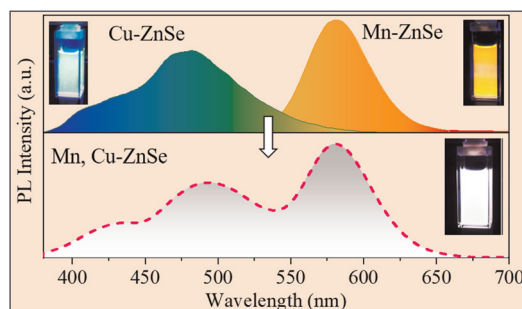


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### Electronic structure study of dual-doped II–VI semiconductor quantum dots towards single-source white light emission

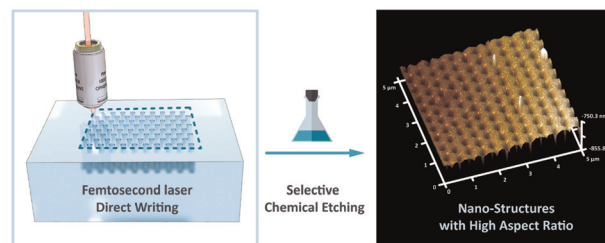
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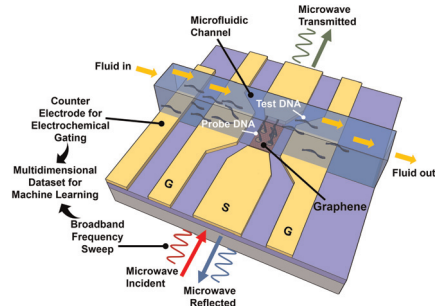
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### Electrochemically-gated graphene broadband microwave waveguides for ultrasensitive biosensing

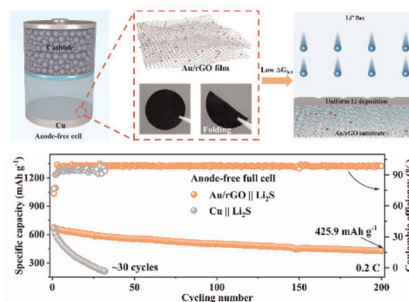
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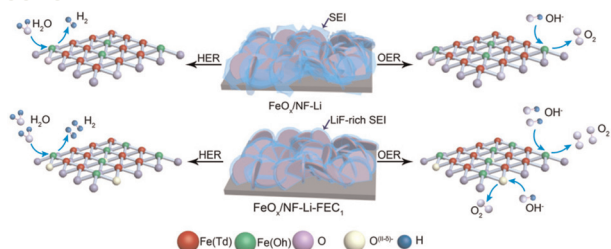
### Scalable fabrication of ultra-fine lithiophilic nanoparticles encapsulated in soft buffered hosts for long-life anode-free Li<sub>2</sub>S-based cells

Bo Zhou, Ting Li, Anjun Hu,\* Baihai Li, Runjing Li, Chuan Zhao, Nian Chen,\* Miao He, Jing Liu and Jianping Long\*



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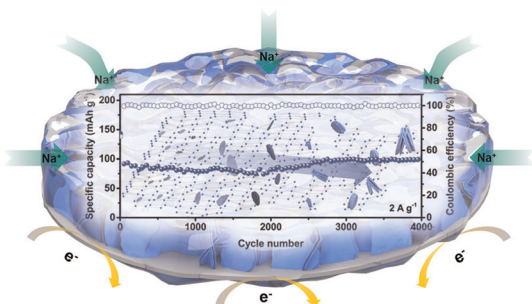
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Xiaoping Zhang,\* Xiaonan Fu, Weifeng Tian, Yanzhi Bai, Liya Zhu\* and Junwen Si

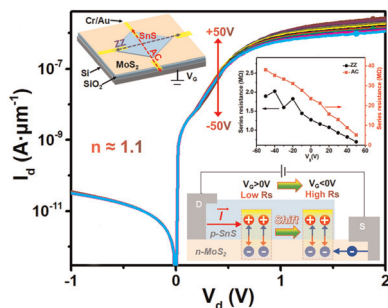
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### Synchronous embedded growth of Mo<sub>2</sub>C nanodisk arrays immobilized on porous carbon nanosheets for ultra-stable sodium storage

Minyu Jia, Jingxuan Wei, Yamin Zhang, Linrui Hou, Jinfeng Sun\* and Changzhou Yuan\*

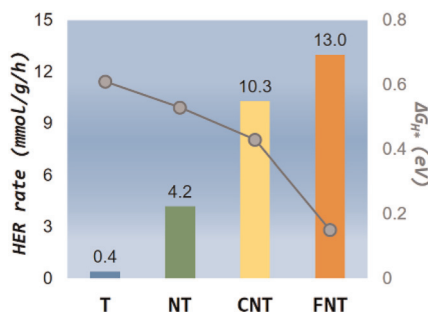
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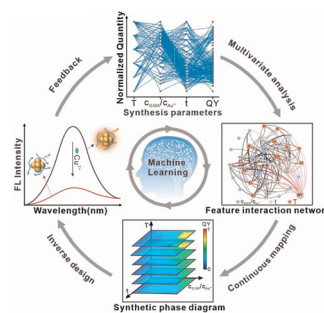




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## An explainable machine-learning approach for revealing the complex synthesis path–property relationships of nanomaterials

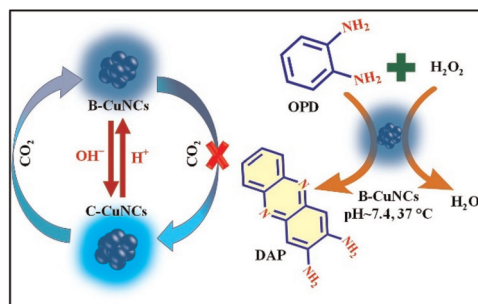
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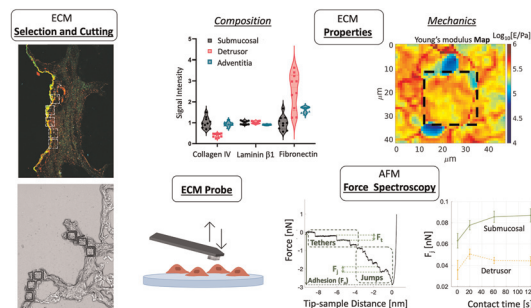
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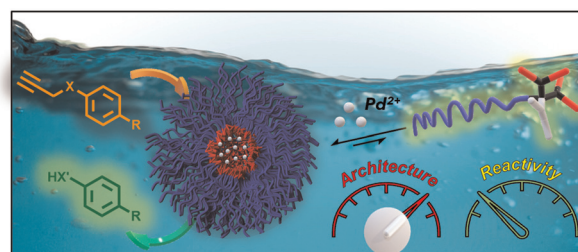
H. Holuigue, L. Nacci, P. Di Chiaro, M. Chighizola, I. Locatelli, C. Schulte,\* M. Alfano,\* G. R. Diaferia\* and A. Podestà\*



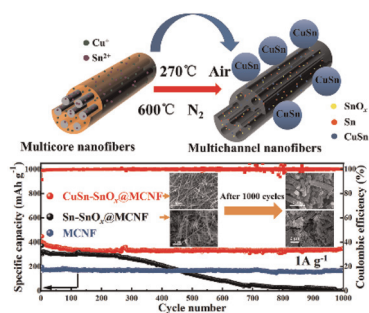
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Shreyas S. Wagle, Parul Rathee, Krishna Vippala, Shahar Tevet, Alexander Gordin, Roman Dobrovetsky and Roey J. Amir\*



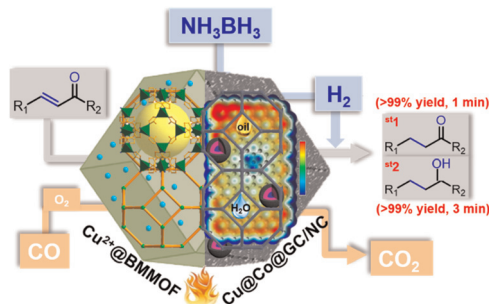
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### Hybrid CuSn nanosphere-functionalized Cu/Sn co-doped hollow carbon nanofibers as anode materials for sodium-ion batteries

Xuwu Xiao, Wenli Yao,\* Tingting Yan, Wenyao Zhang, Qian Zhang, Shengwen Zhong and Zhengquan Yan\*

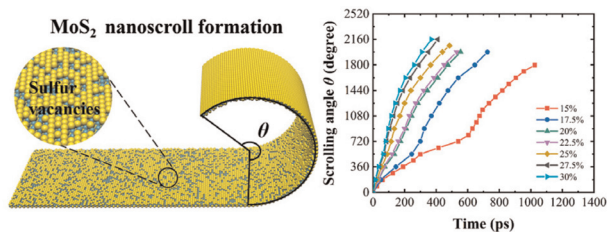
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### Cu<sup>2+</sup>@metal-organic framework-derived amphiphilic sandwich catalysts for enhanced hydrogenation selectivity of ketenes at the oil-water interface

Jia-Lu Sun, Feng-Di Ren, Yu-Zhen Chen\* and Zhibo Li\*

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