

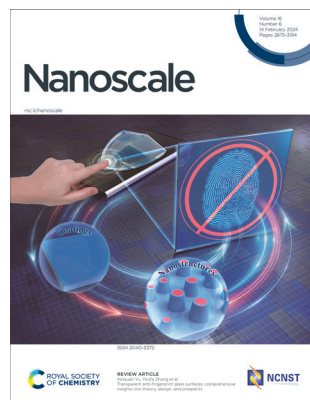
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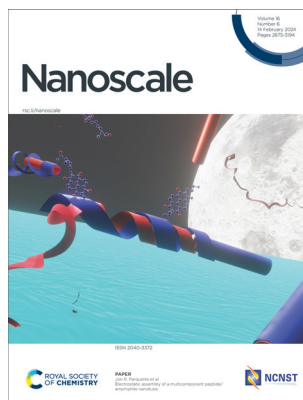
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See Xinquan Yu, Youfa Zhang *et al.*, pp. 2695–2712.

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Inside cover

See Jon R. Parquette *et al.*, pp. 2894–2903.

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Celebrating the 20th anniversary of the National Center for Nanoscience and Technology, China (NCNST)

Xinfeng Liu,* Qing Dai,* Zhixiang Wei,* Chunying Chen* and Yuliang Zhao*



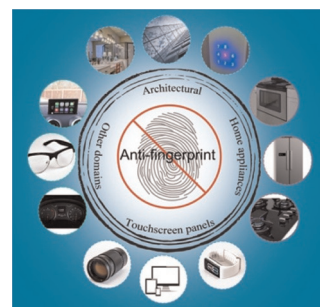
国家纳米科学中心二十周年庆
National Center for Nanoscience and Technology
20th Anniversary

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Transparent anti-fingerprint glass surfaces: comprehensive insights into theory, design, and prospects

Wei Wang, Weilin Deng, Wancheng Gu, Xinquan Yu* and Youfa Zhang*



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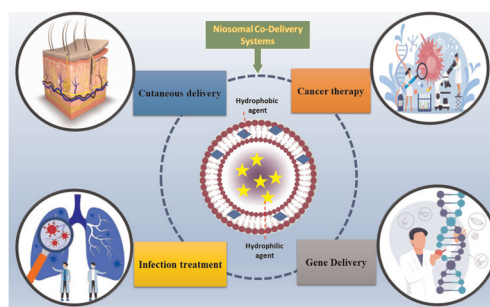
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Elemental answers

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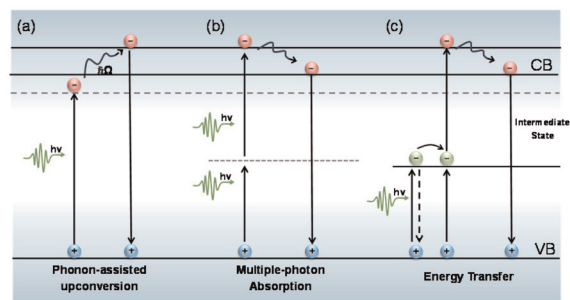
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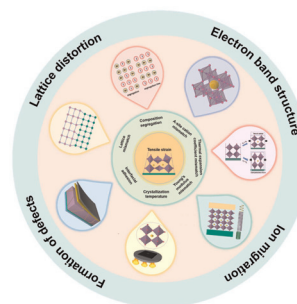
Yutong Zhang, Wenna Du* and Xinfeng Liu*



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Microstress for metal halide perovskite solar cells: from source to influence and management

Yixiao Lei, Wenwu Liu,* Caixia Li, Shiji Da, Yawen Zheng, Youzhi Wu and Fen Ran*

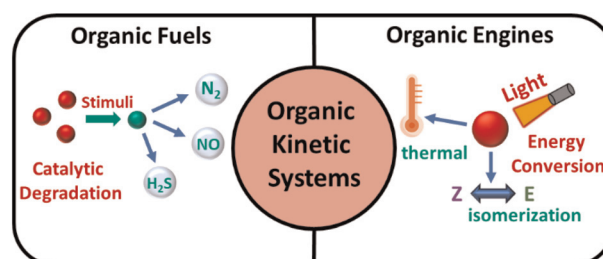


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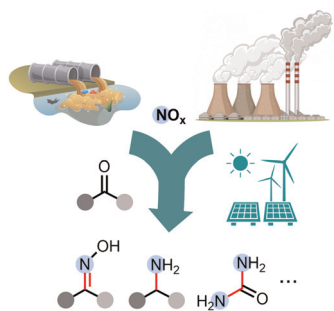
Organic nanomotors: emerging versatile nanobots

Jingjun Jin, Yan Li, Shuai Wang,* Jianchun Xie* and Xibo Yan*



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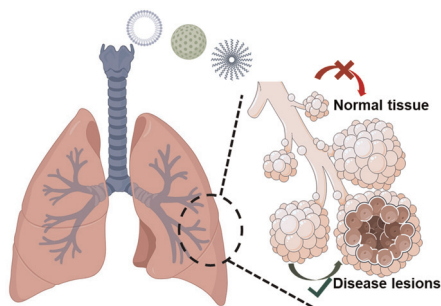
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Recent research progress on building C–N bonds via electrochemical NO_x reduction

Shaktiswaran R. Udayasurian and Tengfei Li*

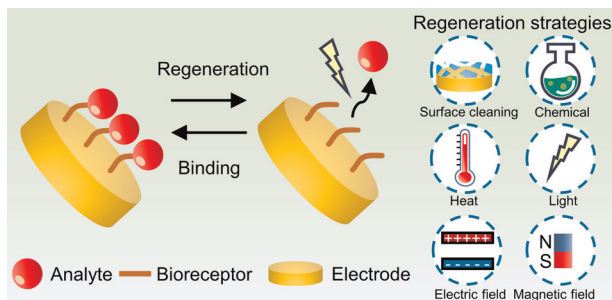
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Wenhao Wang, Ziqiao Zhong, Zhengwei Huang,*
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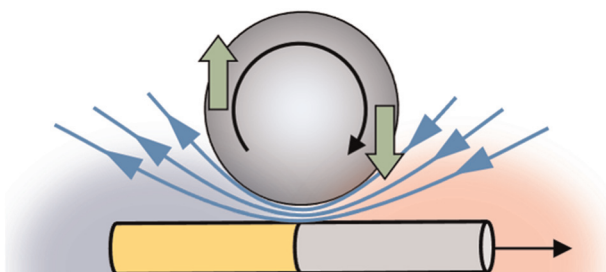


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Yizhen Jia, Shulin Chen, Qi Wang and Jinghua Li*

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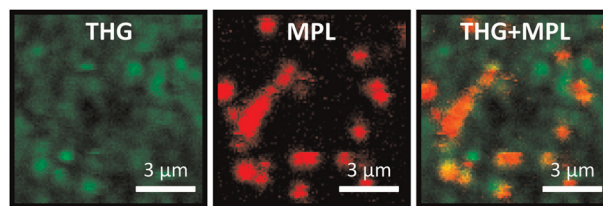
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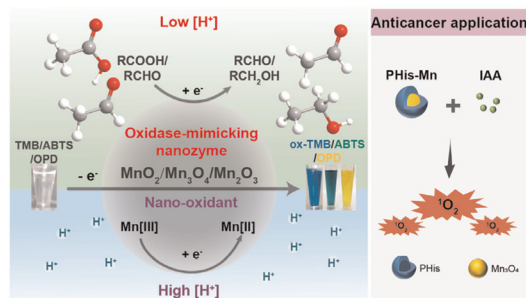
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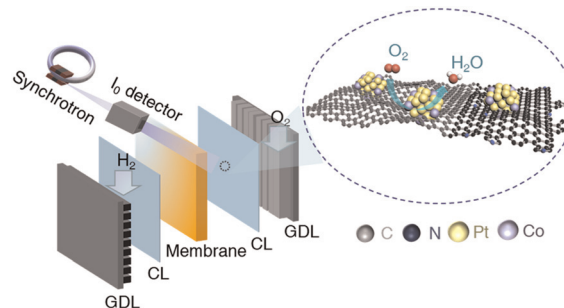
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Highly dispersed ultrafine PtCo alloy nanoparticles on unique composite carbon supports for proton exchange membrane fuel cells

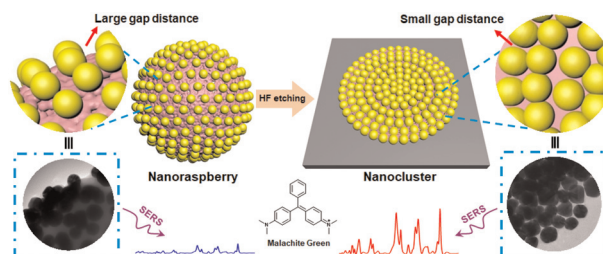
Lingling Zhang, Tong Liu, Xiaokang Liu, Sicheng Li, Xue Zhang, Qiquan Luo, Tao Ding,* Tao Yao and Wei Zhang*



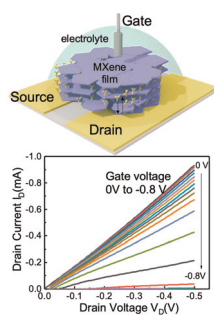
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Nanogap engineering of 3D nanoraspberries into 2D plasmonic nanoclusters toward improved SERS performance

Jian Yang, Xinxing Zhang, Lin Geng, Chao Xia, Xin Chen, Wenzhong Yang, Hui Xu* and Zhiqun Lin*



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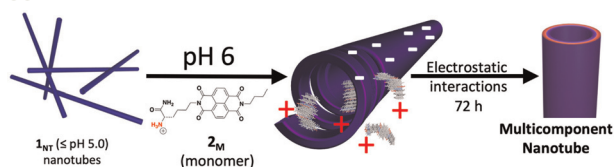


2D MXene electrochemical transistors

Jyoti Shakya, Min-A. Kang, Jian Li, Armin VahidMohammadi, Weiqian Tian,* Erica Zeglio* and Mahiar Max Hamedy*

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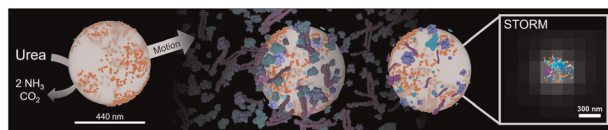
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Electrostatic assembly of a multicomponent peptide/amphiphile nanotube

Jenae J. Linville, McKensie L. Mason, Edgar U. Lopez-Torres and Jon R. Parquette*

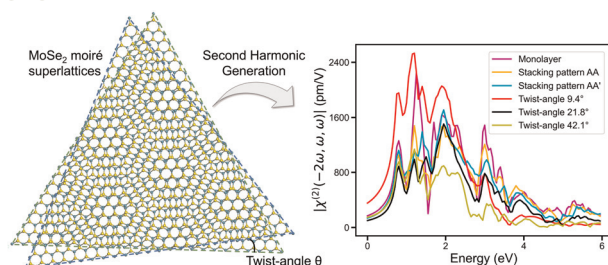
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Second-harmonic generation in 2D moiré superlattices composed of bilayer transition metal dichalcogenides

Xiaoyu Yang, Xinjiang Wang, Muhammad Faizan, Xin He* and Lijun Zhang*

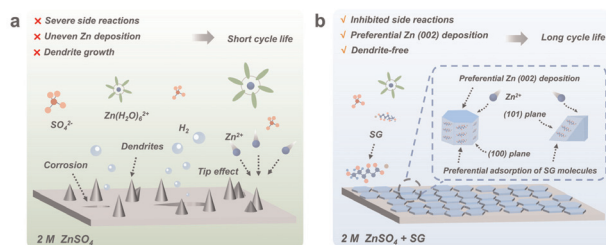


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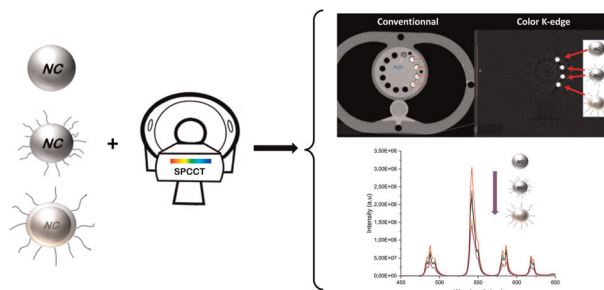
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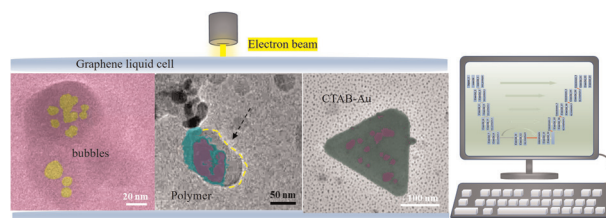
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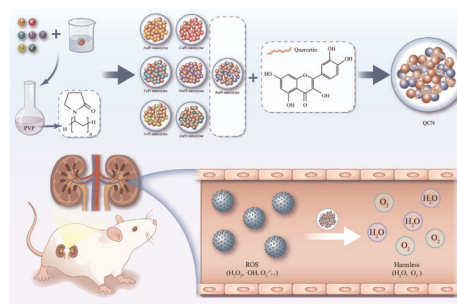
Yangyang Sun, Xingyu Zhang,* Rui Huang, Dahai Yang, Juyeong Kim, Junhao Chen, Edison Huixiang Ang, Mufan Li, Lin Li and Xiaohui Song*



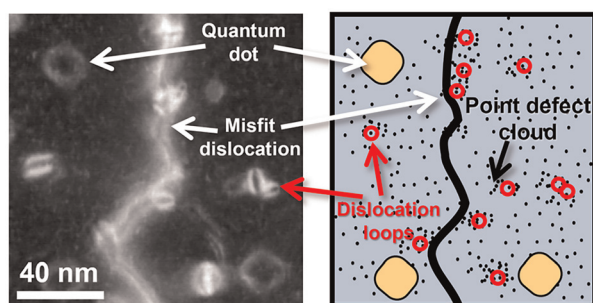
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A bimetallic nanozyme coordinated with quercetin for efficient radical scavenging and treatment of acute kidney injury

Jiangpeng Pan, Tingting Wu, Lu Chen, Xiaoxi Chen, Chao Zhang, Yanyan Wang, Hao Li,* Jiancheng Guo* and Wei Jiang*



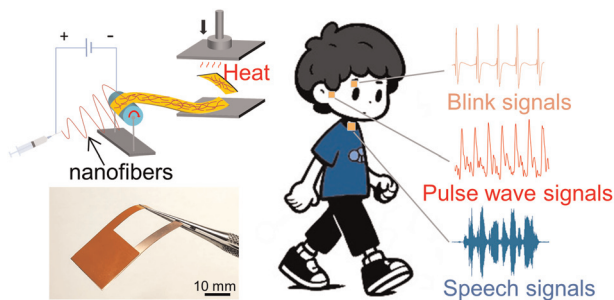
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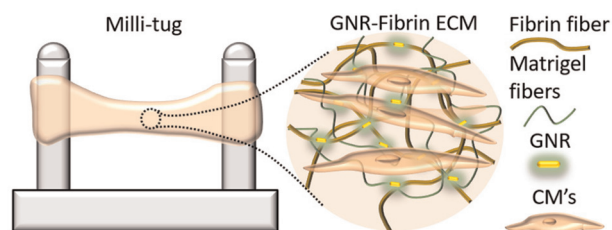
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Ultralow-cost piezoelectric sensor constructed by thermal compression bonding for long-term biomechanical signal monitoring in chronic mental disorders

Xiaodong Shao, Zenan Chen, Junxiao Yu, Fangzhou Lu, Shisheng Chen, Jingfeng Xu, Yihao Yao, Bin Liu, Ping Yang,* Qin Jiang* and Benhui Hu*

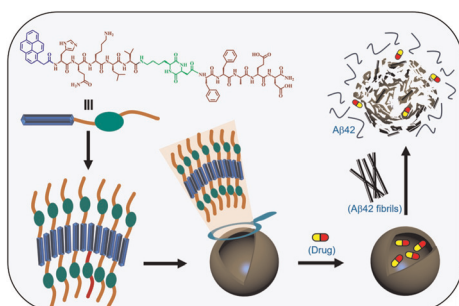
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Improving the development of human engineered cardiac tissue by gold nanorods embedded extracellular matrix for long-term viability

Alberto Sesena-Rubfiaro,* Navin J. Prajapati, Lihua Lou, Govinda Ghimire, Arvind Agarwal and Jin He*

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Cooperative dissolution of peptidomimetic vesicles and amyloid β fibrils

Soumik Dinda, Debasis Ghosh and Thimmaiah Govindaraju*

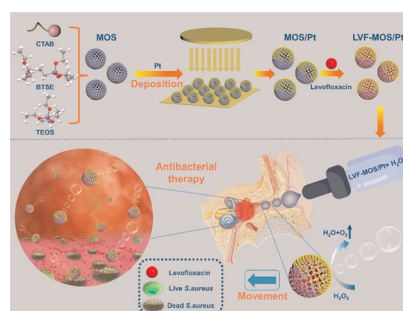


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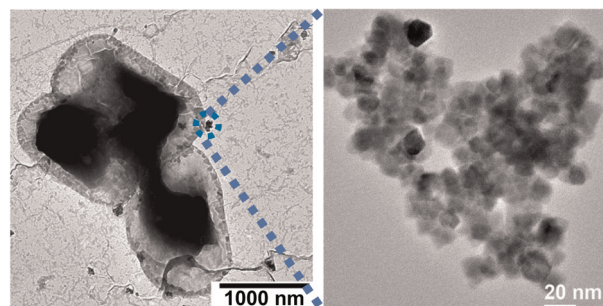
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A rapid and specific antimicrobial resistance detection of *Escherichia coli* via magnetic nanoclusters

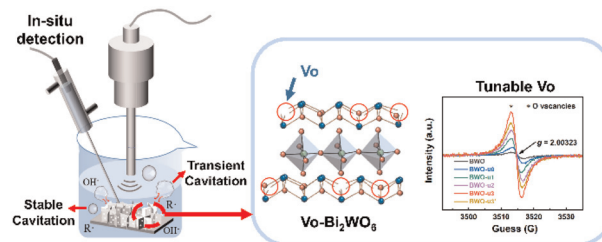
Fei Pan,* Stefanie Altenried, Subas Scheibler and Qun Ren*



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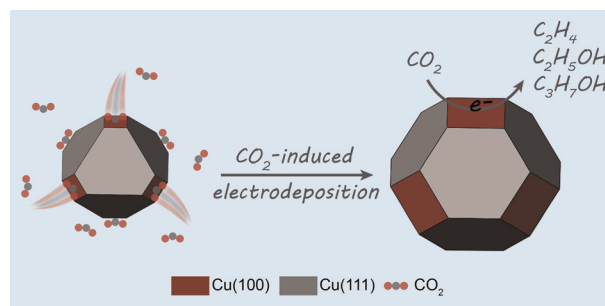
Ruowen Zhao, Yupu Zhang, Fangli Wu, Jianyuan Wang, Fang Chen* and Wei Zhai*



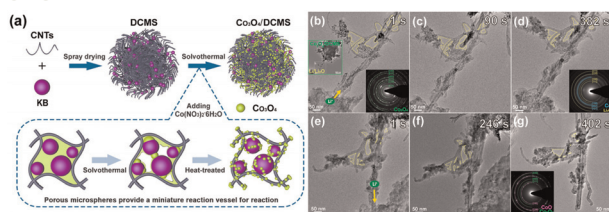
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Gas-induced controllable synthesis of the Cu(100) crystal facet for the selective electroreduction of CO_2 to multicarbon products

Haoyang Wu, Zhili Wang, Benqiang Tian, Yaping Li, Zheng Chang,* Yun Kuang* and Xiaoming Sun



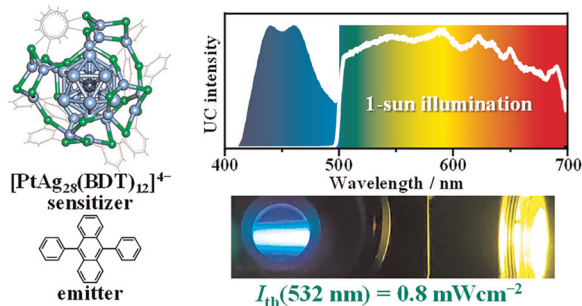
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Hierarchical structure promoted lithiation/delithiation behavior of a double-carbon microsphere supported nano-Co₃O₄ anode

Min Liu, Hai Li, Jie Yu, Shuo Zhang, Qi Chen, Wei Lu, Anbao Yuan,* Li Zhong* and Litao Sun

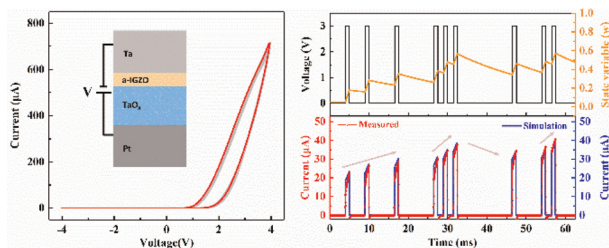
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Triplet properties and intersystem crossing mechanism of PtAg₂₈ nanocluster sensitizers achieving low threshold and efficient photon upconversion

Masaaki Mitsui* and Atsuki Uchida

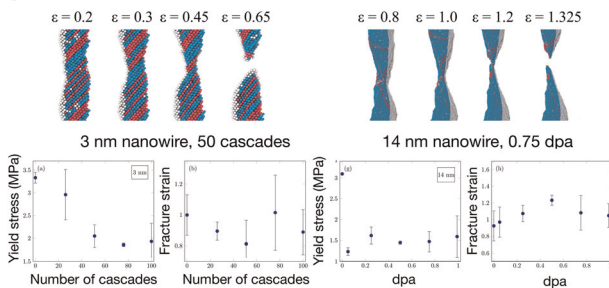
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Unveiling transient current response in bilayer oxide-based physical reservoirs for time-series data analysis

Bo-Ru Lai, Kuan-Ting Chen, Rajneesh Chaurasiya, Song-Xian You, Wen-Dung Hsu and Jen-Sue Chen*

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Effects of radiation damage on the yielding and fracture of nanowires

Daniel Vizoso and Rémi Dingreville*

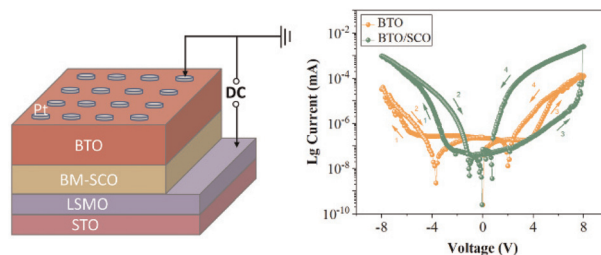


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Ultra-high resistive switching current ratio and improved ferroelectricity and dielectric tunability performance in a BaTiO₃/La_{0.7}Sr_{0.3}MnO₃ heterostructure by inserting a SrCoO_{2.5} layer

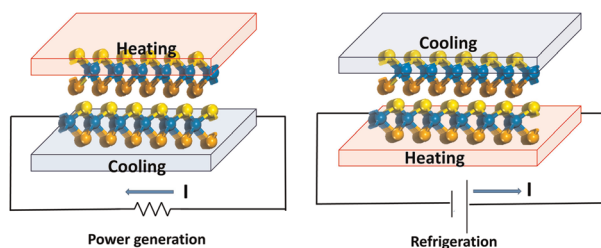
Xi Zhang, Xin Chen,* J. P. Cao, H. W. Wang, W. Y. Deng, L. H. Yang, K. Lin, Q. Li, Q. H. Li, Y. L. Cao, J. X. Deng and Jun Miao*



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Ultralow thermal conductivity of W-Janus bilayers (WXY: X, Y = S, Se, and Te) for thermoelectric devices

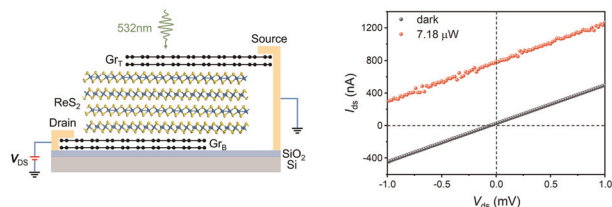
Neha Kapila Sharma,* Vivek Mahajan, Rajendra Adhikari and Hitesh Sharma*



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A giant intrinsic photovoltaic effect in atomically thin ReS₂

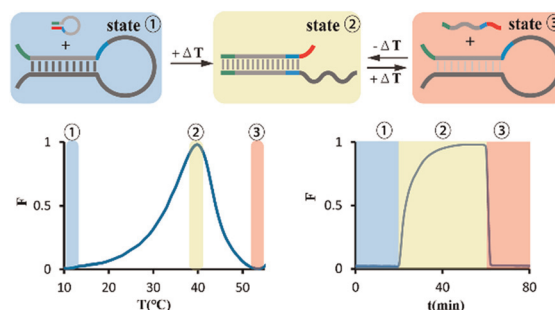
Jing Wang, Nannan Han,* Zhihua Lin, Siqi Hu, Ruijuan Tian, Mingwen Zhang, Yu Zhang, Jianlin Zhao and Xuetao Gan*



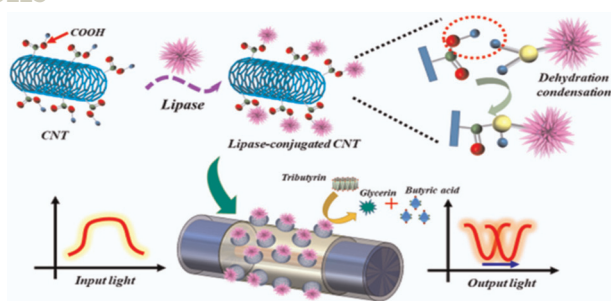
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Multimode adaptive logic gates based on temperature-responsive DNA strand displacement

Zhekun Chen, Chun Xie, Kuiting Chen, Yingxin Hu, Fei Xu and Linqiang Pan*



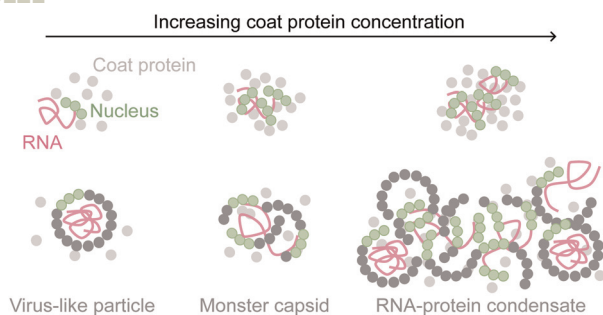
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A lipase-conjugated carbon nanotube fiber-optic SPR sensor for sensitive and specific detection of tributyrin

Hongxin Zhang, Xuegang Li,* Xue Zhou, Yanan Zhang and Yong Zhao*

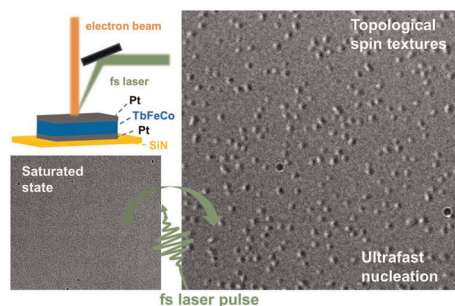
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Effect of coat-protein concentration on the self-assembly of bacteriophage MS2 capsids around RNA

LaNell A. Williams, Andreas Neophytou, Rees F. Garmann, Dwaipayan Chakrabarti and Vinothan N. Manoharan*

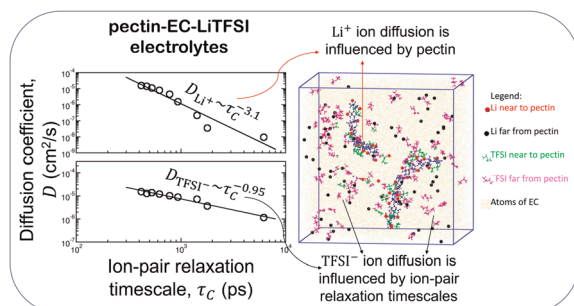
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Ultrafast switching to zero field topological spin textures in ferrimagnetic TbFeCo films

Kaixin Zhu, Linzhu Bi, Yongzhao Zhang, Dingguo Zheng, Dong Yang, Jun Li, Huanfang Tian, Jianwang Cai, Huaixin Yang, Ying Zhang* and Jianqi Li*

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Ion transport mechanisms in pectin-containing EC-LiTFSI electrolytes

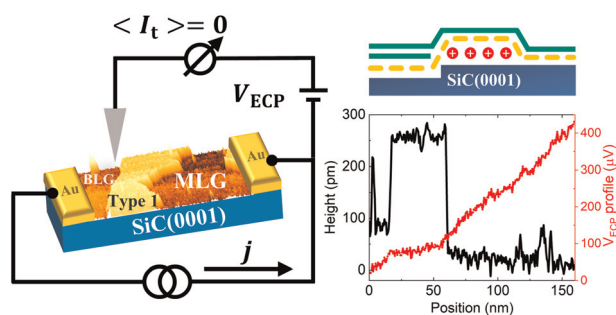
Sipra Mohapatra, Hema Teherpuria, Sapta Sindhu Paul Chowdhury, Suleman Jalilahmad Ansari, Prabhat K. Jaiswal, Roland R. Netz and Santosh Mogurampelly*



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Observation of different Li intercalation states and local doping in epitaxial mono- and bilayer graphene on SiC(0001)

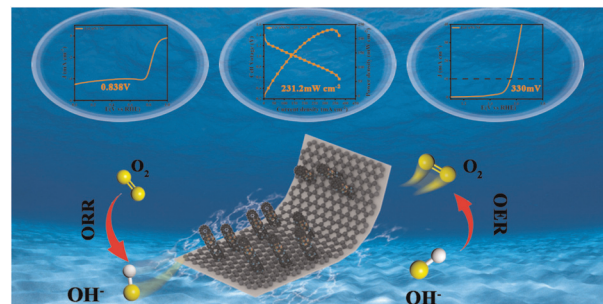
Wei Huang, Jeong Ah Seo, Mark P. Canavan, Pietro Gambardella and Sebastian Stepanow*



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Movable-type printing method to fabricate ternary FeCoNi alloys confined in porous carbon towards oxygen electrocatalysts for rechargeable Zn-air batteries

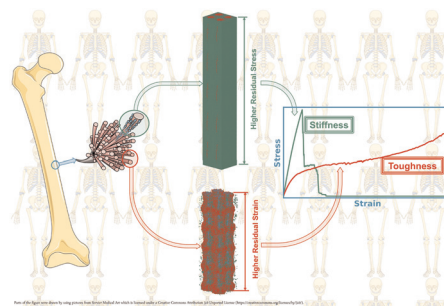
Xuzi Cong, Jigang Wang, Yinggang Sun, Gaojin Feng, Qiang Liu and Likai Wang*



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Elucidating the role of diverse mineralisation paradigms on bone biomechanics – a coarse-grained molecular dynamics investigation

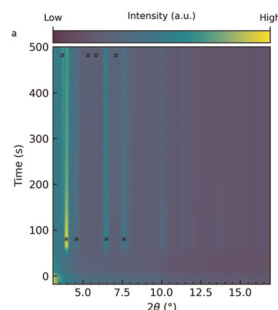
Mahdi Tavakol* and Ted J. Vaughan*



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Stabilizing tetragonal ZrO₂ nanocrystallites in solvothermal synthesis

Magnus Kløve, Gilles Philippot,* Aimery Auxéméry, Cyril Aymonier and Bo Brummerstedt Iversen*



CORRECTION

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Correction: An interfacial toughening strategy for high stability 2D/3D perovskite X-ray detectors with a carbon nanotube thin film electrode

Liwen Qiu, Mingqiang Wang, Tian Sun, Qiang Lou, Tong Chen, Guoshen Yang, Wei Qian, Zixuan Zhang, Shihe Yang, Min Zhang, Yufeng Jin and Hang Zhou*

