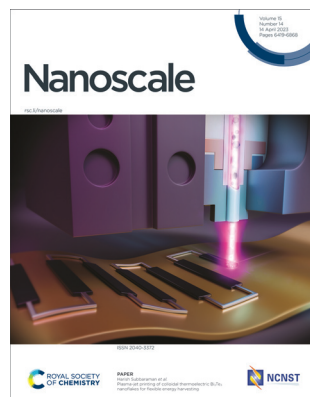


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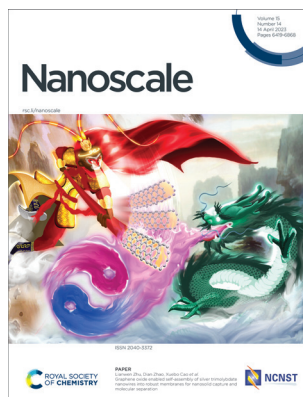
ISSN 2040-3372 CODEN NANOHL 15(14) 6419–6868 (2023)



Cover

See Harish Subbaraman *et al.*, pp. 6596–6606.

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Inside cover

See Lianwen Zhu, Dian Zhao, Xuebo Cao *et al.*, pp. 6607–6618.

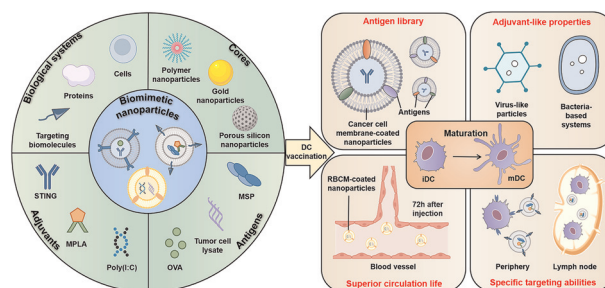
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Biomimetic nanoparticles for DC vaccination: a versatile approach to boost cancer immunotherapy

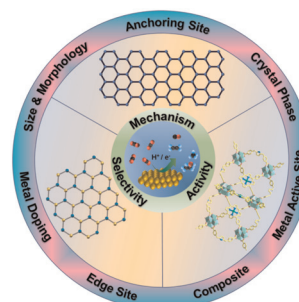
Lingyang Meng, Zhuang Teng, Shuang Yang, Na Wang, YingHua Guan, Xiguang Chen and Ya Liu*



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Metal functionalization of two-dimensional nanomaterials for electrochemical carbon dioxide reduction

Guozhi Wang, Yangbo Ma, Juan Wang, Pengyi Lu, Yunhao Wang and Zhanxi Fan*



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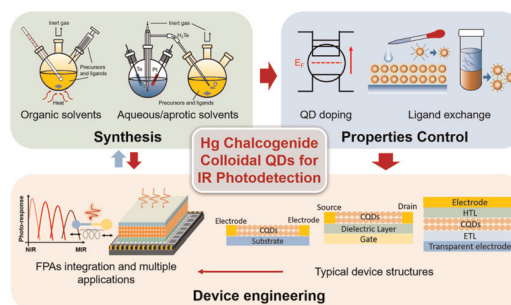


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Mercury chalcogenide colloidal quantum dots for infrared photodetection: from synthesis to device applications

Yuan Yuan Tian, Hongqiang Luo, Mengyu Chen,*
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Andrey L. Rogach

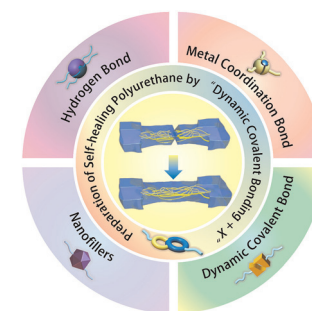


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Recent advances in self-healing polyurethane based on dynamic covalent bonds combined with other self-healing methods

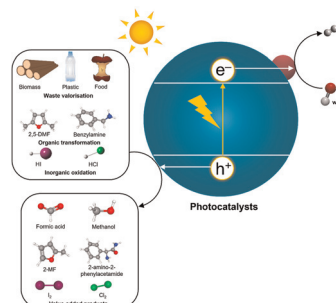
Ze-Wei An, Rui Xue, Kang Ye, Hui Zhao,* Yang Liu,
Peng Li, Zhen-Ming Chen, Chong-Xing Huang and
Guo-Hua Hu



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Alternatives to water oxidation in the photocatalytic water splitting reaction for solar hydrogen production

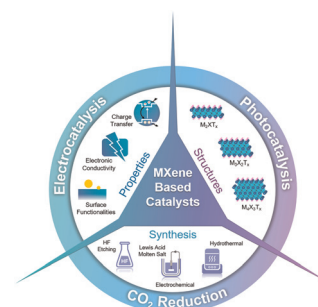
Yaqiang Wu, Takuya Sakurai, Takumi Adachi and
Qian Wang*



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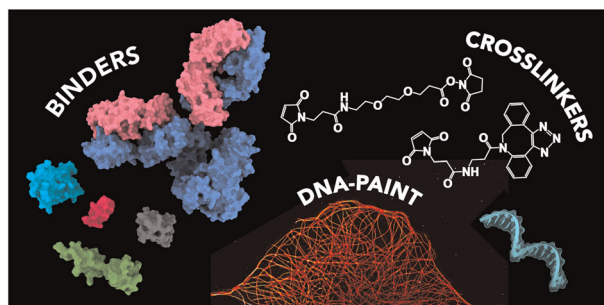
Retrospective insights into recent MXene-based catalysts for CO₂ electro/photoreduction: how far have we gone?

Xin-Quan Tan, Wuwei Mo, Xinlong Lin, Jian Yiing Loh,
Abdul Rahman Mohamed and Wee-Jun Ong*



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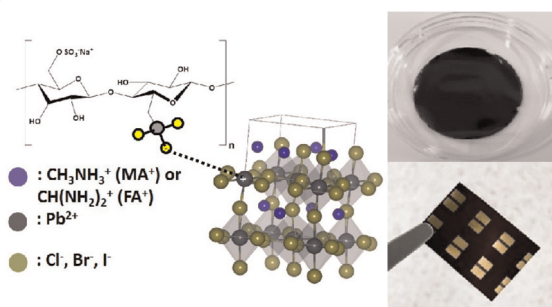


Labeling approaches for DNA-PAINT super-resolution imaging

Abhinav Banerjee, Micky Anand and Mahipal Ganji*

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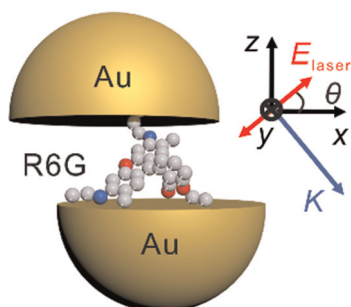
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Highly stable, substrate-free, and flexible broadband halide perovskite paper photodetectors

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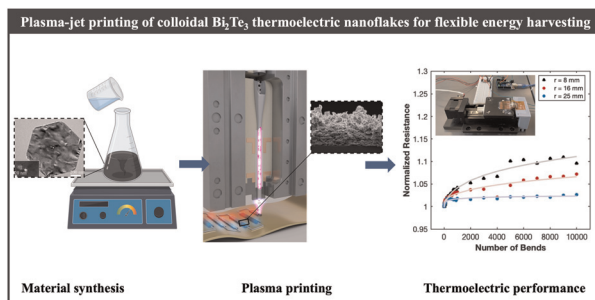


Flexible plasmonic nanocavities: a universal platform for the identification of molecular orientations

Lei Yao, Qi Hao,* Mingze Li, Xingce Fan, Guoqun Li, Xiao Tang, Yunjia Wei, Jiawei Wang and Teng Qiu

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Plasma-jet printing of colloidal thermoelectric Bi₂Te₃ nanoflakes for flexible energy harvesting

Jacob Manzi, Ariel E. Weltner, Tony Varghese, Nicholas McKibben, Mia Busuladzic-Begic, David Estrada and Harish Subbaraman*

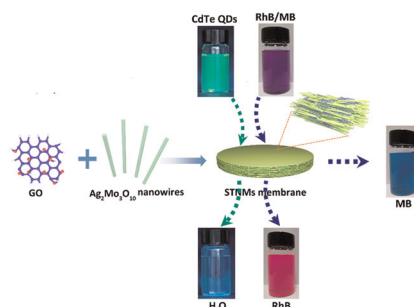


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Graphene oxide enabled self-assembly of silver trimolybdate nanowires into robust membranes for nanosolid capture and molecular separation

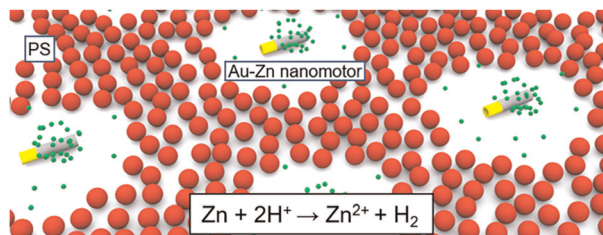
Keyi Xu, Ling Wang, Yuxuan Zhang, Hongwang Tang, Lianwen Zhu,* Dian Zhao,* Zheng Yan and Xuebo Cao*



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Adaptive particle patterning in the presence of active synthetic nanomotors

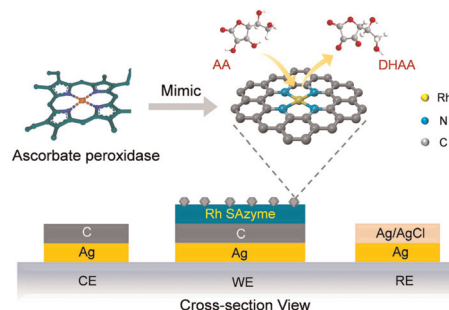
Dazhi Xie, Shaoming Fu, Dongmei Fu, Bin Chen, Weidong He, Haiying Liang, Yingfeng Tu, Daniela A. Wilson and Fei Peng*



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Rh single-atom nanozymes for efficient ascorbic acid oxidation and detection

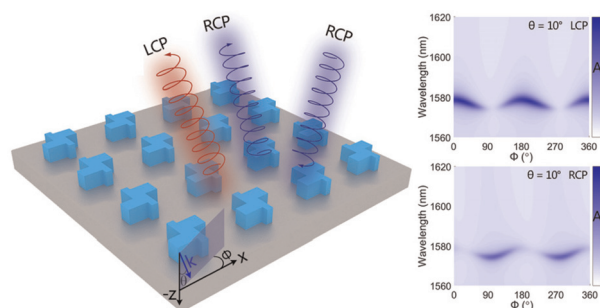
Xiaoyue Shi, Juan Li, Yu Xiong,* Ziyu Liu,* Jinhua Zhan and Bin Cai*



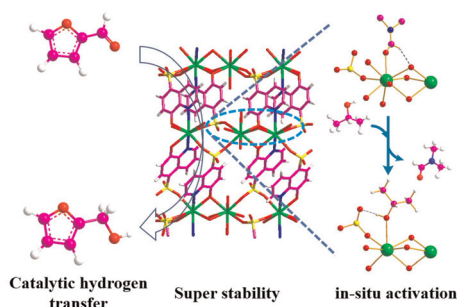
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Photonic spin-selective perfect absorptance on planar metasurfaces driven by chiral quasi-bound states in the continuum

Hongju Li, Hongmiao Zhou, Gangao Wei, Hangsheng Xu, Meng Qin,* Jianqiang Liu and Feng Wu



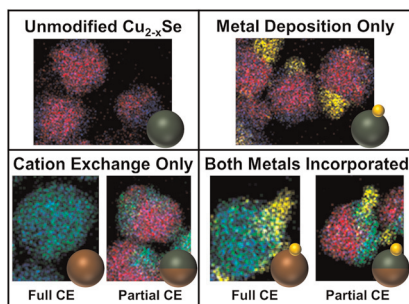
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An ultrastable La-MOF for catalytic hydrogen transfer of furfural: *in situ* activation of the surface

Xu Zhao, Lu Sun, Zhouxiao Zhai, Di Tian, Ying Wang, Xiaoqin Zou,* Chungang Min and Changfu Zhuang*

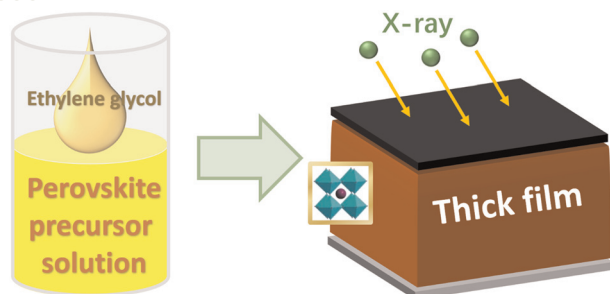
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Multimetallic post-synthetic modifications of copper selenide nanoparticles

Riti Sen, Tyler Masato Gordon, Shelby Liz Millheim, Jacob Harrison Smith, Xing Yee Gan and Jill Erin Millstone*

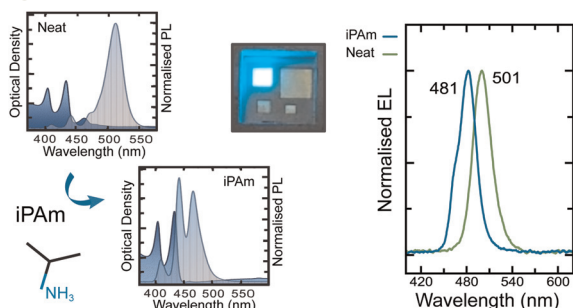
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Solvent engineering of MAPbI_3 perovskite thick film for a direct X-ray detector

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Martha Judith Rivera Medina, Lorenzo Di Mario, Simon Kahmann, Jun Xi, Giuseppe Portale, Giovanni Bongiovanni, Andrea Mura, Juan Carlos Alonso Huitrón and Maria Antonietta Loi*

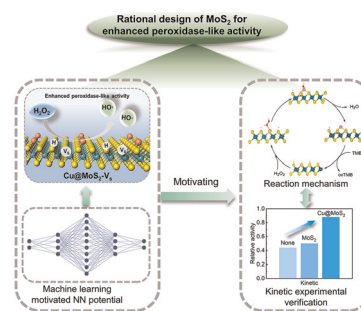


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Rational design of MoS₂-supported Cu single-atom catalysts by machine learning potential for enhanced peroxidase-like activity

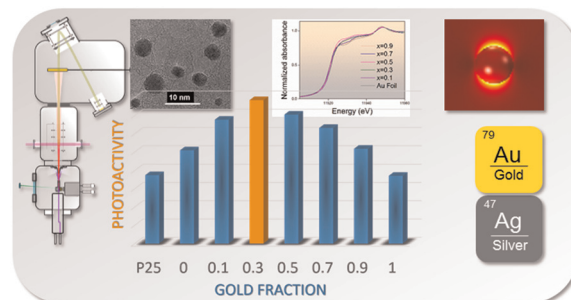
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Gas phase deposition of well-defined bimetallic gold-silver clusters for photocatalytic applications

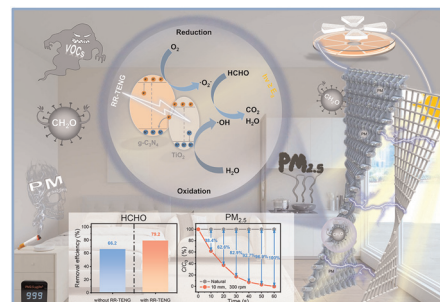
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A curtain purification system based on a rabbit fur-based rotating triboelectric nanogenerator for efficient photocatalytic degradation of volatile organic compounds

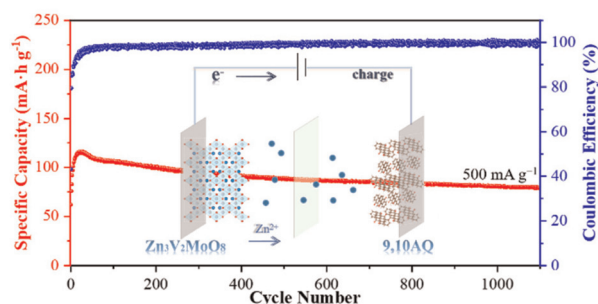
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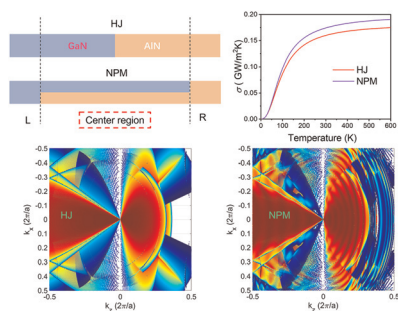
Integrating molybdenum into zinc vanadate enables Zn₃V₂MoO₈ as a high-capacity Zn-supplied cathode for Zn-metal free aqueous batteries

Gang Wang, Quan Kuang,* Pan Jiang, Qinghua Fan, Youzhong Dong and Yanming Zhao



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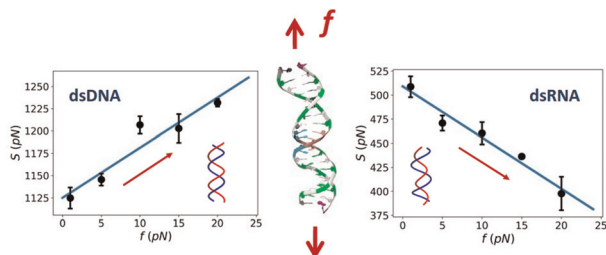
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Nano-phononic metamaterials enable an anomalous enhancement in the interfacial thermal conductance of the GaN/AlN heterojunction

Cheng-Wei Wu, Hui Pan, Yu-Jia Zeng, Wu-Xing Zhou,*
Ke-Qiu Chen* and Gang Zhang*

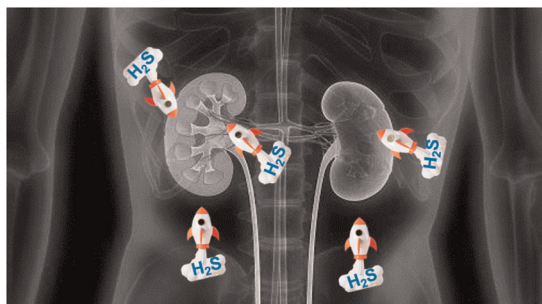
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Force-dependent elasticity of nucleic acids

Juan Luengo-Márquez,* Juan Zalvide-Pombo,
Rubén Pérez and Salvatore Assenza*

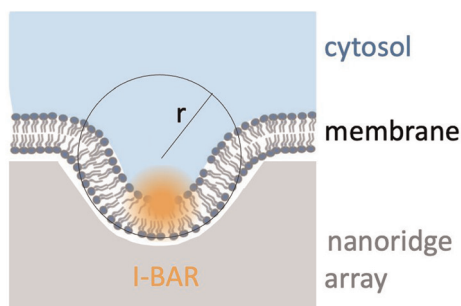
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pH/ROS-responsive propelled nanomotors for the active treatment of renal injury

Fei Tong,* Jin Liu, Lei Luo, Lingyan Qiao, Jianming Wu,
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Negatively curved cellular membranes promote BAIAP2 signaling hub assembly

Mirsana Ebrahimkuty, Junxiu Duan, Harald Nüsse,
Jürgen Klingauf and Milos Galic*

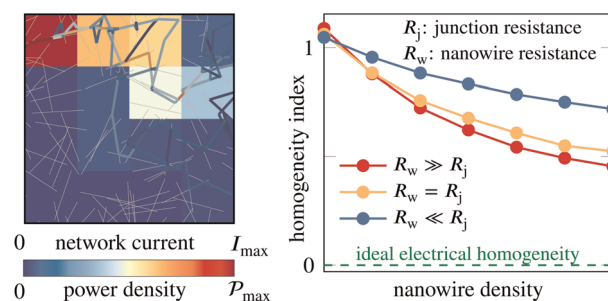


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Quantitative electrical homogeneity assessment of nanowire transparent electrodes

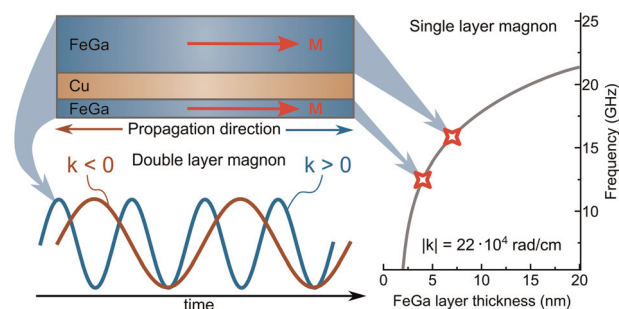
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Nonreciprocal collective magnetostatic wave modes in geometrically asymmetric bilayer structure with nonmagnetic spacer

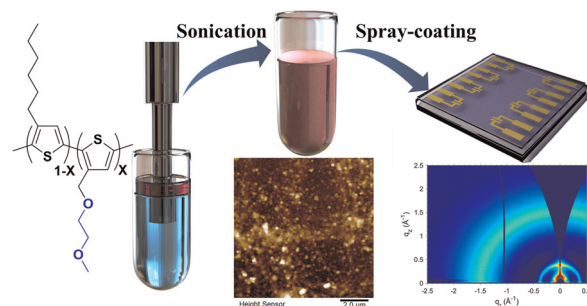
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Aqueous processing of organic semiconductors enabled by stable nanoparticles with built-in surfactants

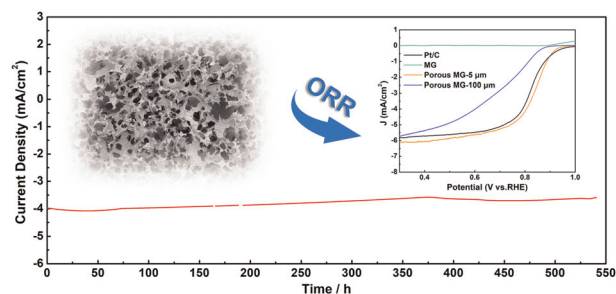
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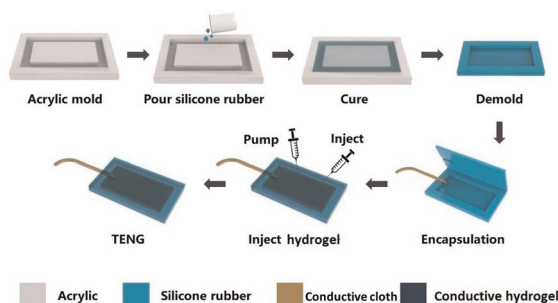
Dissolvable templates to prepare Pt-based porous metallic glass for the oxygen reduction reaction

Xiong Liang, Zehang Liu, Jianan Fu, Heting Zhang, Jinbiao Huang, Shuai Ren, Zhenxuan Zhang, Qing Chen, Yong Xiao, Wenqing Ruan* and Jiang Ma*



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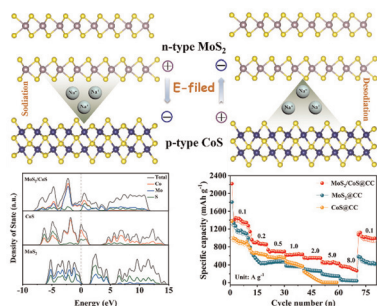
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A flexible and stretchable triboelectric nanogenerator based on a medical conductive hydrogel for biomechanical energy harvesting and electronic switches

Junwei Zhao,* Yujiang Wang, Bo Wang, Yuetan Sun, Haoqiang Lv, Zijian Wang, Wenqing Zhang and Yongdong Jiang*

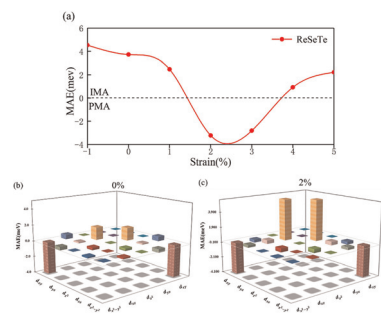
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MoS₂/CoS heterostructures grown on carbon cloth as free-standing anodes for high-performance sodium-ion batteries

Fangfang Xue, Feifan Fan, Zhicheng Zhu, Zhigang Zhang, Yuefeng Gu and Qihong Li*

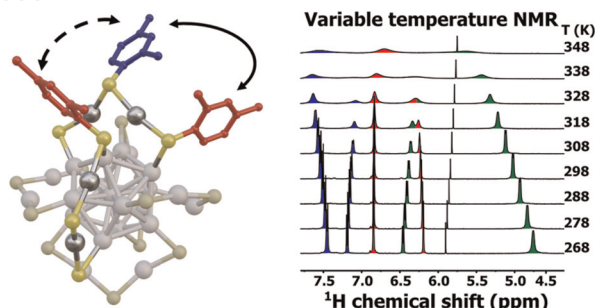
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Strain-tunable skyrmions in two-dimensional monolayer Janus magnets

Yue-tong Han, Wei-xiao Ji, Pei-Ji Wang, Ping Li and Chang-Wen Zhang*

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Intracuster ligand rearrangement: an NMR-based thermodynamic study

Daniele Rosa-Gastaldo, Marion Pupier, Giorgi Meshvildishvili, Jasmine Viger-Gravel* and Thomas Bürgi*

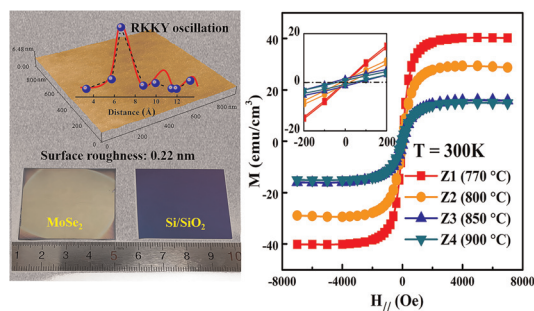


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Large-scale fabrication and Mo vacancy-induced robust room-temperature ferromagnetism of MoSe₂ thin films

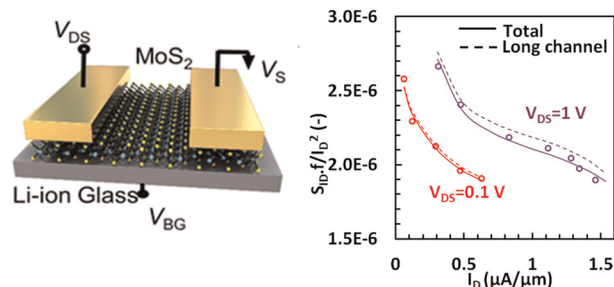
Jing Zhong, Xi Zhang, Wa He, Dan Gong, Mu Lan, Xu Dai, Yong Peng and Gang Xiang*



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Physics-based bias-dependent compact modeling of 1/f noise in single- to few-layer 2D-FETs

Nikolaos Mavredakis,* Anibal Pacheco-Sanchez, Md Hasibul Alam, Anton Guimerà-Brunet, Javier Martinez, Jose Antonio Garrido, Deji Akinwande and David Jiménez



CORRECTIONS

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Correction: First-principles prediction of two-dimensional MnOX (X = Cl, Br) monolayers: the half-metallic multiferroics with magnetoelastic coupling

Yulin Feng, Zilong Wang, Na Liu* and Qing Yang*

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Correction: Tempering of Au nanoclusters: capturing the temperature-dependent competition among structural motifs

Manoj Settem, Riccardo Ferrando* and Alberto Giacomello*

