NANO LETTERS
BJTS system
Water vapor
Water harvesting
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About the Cover:

This work presents a bioinspired Janus triboelectric surface for simultaneous harvesting of water vapor emitted from cooling towers and self-powered sensing. Directional droplet capture and transfer are coupled with triboelectric signal generation, enabling efficient water recovery and real-time monitoring of key environmental parameters in a compact, scalable system.
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Toward *In Vivo* CAR T Cell Therapy: Perfecting CAR and Lipid Nanoparticle Design

Ludovica Sciuto, Sander A. A. Kooijmans, and Raymond M. Schiffelers*

Nano Letters 2026, 26, 7, 2337-2347 **(Mini-Review)** Subscribed
Publication Date (Web): February 11, 2026

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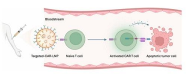
ABSTRACT



LETTERS

Moisture-Induced Counterintuitive Effects on the Strength and Toughness of Cellulose Nanopaper

Yufan Liu, Xiang Qin, Xiangrui Zheng, Zhenlin Zhang, Yao Zhang*, Ruitao Cha*, and Qinghua Meng*

Nano Letters 2026, 26, 7, 2348-2355 **(Letter)** Subscribed
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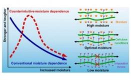

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Strain Tuning of Weyl Nodes in $SrRuO_3$ Membranes

Patrick Blah, Stefano Gariglio*, Edouard Lesne, Graham Kimbell, Dmytro Afanasiev, Jorrit Hortensius, Mattias Matthiesen, Dirk Groenendijk, Mafalda Monteiro, Mario Cuoco, Carmine Ortix, and Andrea Caviglia*

Nano Letters 2026, 26, 7, 2356-2361 **(Letter)** Open Access
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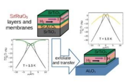

A Functional Air-Bubble Microlaser for Screening Photothermal Agents in Tumor Multicellular Model

Xiyu Sun, Guocheng Fang*, Ningyuan Nie, Bowen Fu, Tian Zhou, Po-Hao Tseng, Zhongshu Xiong, Van Duong Ta, Quan Zhou, Changjin Huang, and Yu-Cheng Chen*

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ABSTRACT

Interfacial Electric Locking of the Aptamer Conformation for Accurate Liquid Biopsy Detection

Chang Chen, Yi Yang, Huimin Niu, Yanan Tang, Xuejun Wang, Shen Zhang, Changhao Dai, Hongwenjie Ma, Renxing Huang, Jie Wang, Derong Kong*, Juan Li*, Yunqi Liu, and Dacheng Wei*

Nano Letters 2026, 26, 7, 2371-2380 **(Letter)** Subscribed
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ABSTRACT

Neutrophil-Mediated Drug Delivery Nanoplatform Constructed from Celastrol Loaded Liposome for Targeted Therapy of Rheumatoid Arthritis

Yunshuang Jiao, Jicong Chen, Huijia Lei, Siyuan Hu, Yuanhao Yu, Jinsheng Yang, Yuyang Chen, Jie Yang*, and Lesheng Teng*

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ABSTRACT

Dendrite Suppression by Detouring Li Transport within a Mechanically Anisotropic Solid Electrolyte

Alhamdu Nuhu Bage, Joseph Vazquez Mercado, Fernando D. Cúñez, Ashok Gurung, Shaofan Li, and Qingsong Howard Tu*

Nano Letters 2026, 26, 7, 2389-2396 **(Letter)** Subscribed
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ABSTRACT

Transverse Spin Vortices and Skyrmions in the Electric Near-Field of Plasmonic Nanogaps

Christophe Pin*, Síle Nic Chormaic, and Keiji Sasaki*

Nano Letters 2026, 26, 7, 2397-2404 **(Letter)** Subscribed
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ABSTRACT

Reversible Charge Inversion Enables Field-Programmable Nanofluidic Memristor and Synapse for Neuromorphic Applications

D. Manikandan and Suman Chakraborty*

Nano Letters 2026, 26, 7, 2405-2414 **(Letter)** Subscribed
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ABSTRACT

Hexagonal Boron Nitride for Nanoscale Heat Dissipation in Electronic and Photonic Chips

Bohai Liu, Riccardo Farina, Michał Świniarski, Wiktor Kwapiński, Ronny Omar De La Bastida Chiza, Marvin van Tilburg, Marvin Marco Jansen, Kenji Watanabe, Takashi Taniguchi, Erik P. A. M. Bakkers, Jos E. M. Haverkort, and Klaas-Jan Tielrooij*

Nano Letters 2026, 26, 7, 2415-2422 **(Letter)** Subscribed
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ABSTRACT

Bioinspired Janus Triboelectric Surface Enabled by Laser-Patterned Oxidation

Song Zhang, Yongting Wu, Changjian Lan, Tao Liu, Kang Yu, Qiguan Luo, Jinlong Wang, Chenchen Cai, Yanhua Liu, Mingchao Chi, Bin Luo, and Shuangxi Nie*

Nano Letters 2026, 26, 7, 2423-2431 **(Letter)** Subscribed
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ABSTRACT

Graphene In-Sensor Compute Device for Plant Hydration Monitoring

Utkarsh Misra, Philip Varkey, Ning Liu, Samuel Liu, Maya Borowicz, Benjamin K. Keitz, Ashley M. Matheny, Dmitry Kireev, Deji Akinwande, and Jean Anne C. Incorvia*

Nano Letters 2026, 26, 7, 2432-2440 **(Letter)** Subscribed
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ABSTRACT

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Electronic Structure Modulation in Covalent Organic Frameworks through Ethynyl Positioning for Enhanced Low-Concentration Iodine Capture

Lingli Zhang, Li Wang*, and Feng Luo*

Nano Letters 2026, 26, 7, 2441-2449 **(Letter)** Subscribed
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ABSTRACT

Programmable Memristive Optical Antenna Via Plasmonic Tunneling Junction

Yu Wu, Dudu Song, Zhengyi Lu, Hao Zhang, Hongling Guan, Weijun Ke, Shunping Zhang*, and Hongxing Xu

Nano Letters 2026, 26, 7, 2450-2457 **(Letter)** Subscribed
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ABSTRACT

Enhanced Diffusion of Single, Lipid-Tethered Enzymes

Ashley Scott, Mengqi Xu, Ian Murphy, David S.-J. Jang, Zainab Marwa Rana, Anthony Estrada, Wylie W. Ahmed, W. Benjamin Rogers, and Jennifer L. Ross*

Nano Letters 2026, 26, 7, 2458-2465 **(Letter)** Open Access
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ABSTRACT

Monolithic Integration of InAs Quantum Dot Lasers with Waveguide Photodetector on CMOS-Compatible (001) Silicon

Wenkang Zhan, Chao Shen, Lizhi Wang, Dong Han, Hui Cong, Shujie Pan, Siming Chen, Bo Xu, Chunlai Xue, Zhanguo Wang, and Chao Zhao*

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ABSTRACT

PANI E-skin Inspired by Microridge Structure and the Collaborative Mechanism of Mechanoreceptors for Elderly Health Monitoring and Intelligent Recognition of Abnormal Plantar Pressures

Yudong Song, Yang Zou, Xinjian Shi, Shengyan Yin, Song Liang, Zhenning Liu, Qinrong He*, and Hang Sun*

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ABSTRACT

Highly Flexible Fiber Supercapacitors with Ultra-High Energy Density for Energy Storage Electronic Textiles

Donghui Li, Jianfeng Gu, Xinmin Zhang, Huihui Wang, Weiqing Zhan, Peiqi Wu, Xinyi Ji*, and Jiajie Liang*

Nano Letters 2026, 26, 7, 2484-2492 **(Letter)** Subscribed
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ABSTRACT

Thickness-Driven Modification of Interface States and Polarization Switching in $MoTe_2/BaTiO_3$ Heterostructures

Yuqing Zhou, Feiyan Hou, Xingke Fu, Chen Ge, Ming Xu*, Kaiming Wang, Siqing Zhang, Jianpei Xing, Li Sun, Ruidong Lv, Qian Liu, Fengjuan Wang, Kaiyang Zeng, Tai Min, and Tao Li*

Nano Letters 2026, 26, 7, 2493-2501 **(Letter)** Subscribed
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ABSTRACT

Long-Chain Branched α-Alkenes from Plastic Upcycling Using Mo_2C–Zn Nanoclusters Embedded on Hierarchical Porous Carbon

Yuan Jiang, Guanyu Zhang, Qing Cheng, Ge Kong, Xin Zhang*, Chun Shan, Fangqi Liu, Jin Wang, Tianqi Cao, Xuesong Zhang*, and Lujia Han

Nano Letters 2026, 26, 7, 2502-2511 **(Letter)** Subscribed
Publication Date (Web): February 10, 2026

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ABSTRACT

Spin Splitting, Kondo Correlation and Singlet-Doublet Quantum Phase Transition in a Superconductor-Coupled InSb Nanosheet Quantum Dot

Xingjun Wu*, Ji-Yin Wang, Haitian Su, Han Gao, Shili Yan, Dong Pan*, Jianhua Zhao, Po Zhang, and H. Q. Xu*

Nano Letters 2026, 26, 7, 2512-2518 **(Letter)** Subscribed
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ABSTRACT

Interfacial Engineering-Tailored Multiform Paper-Based Sensor with High Durability and a Low Detection Limit

Yunduo Yi, Ze Wang*, Ruijuan Du, Jianhao Li, Shuo Zhang, Changguang Wang, Dakai Wang, Shichao Niu, Junqiu Zhang, Zhiwu Han, and Luquan Ren

Nano Letters 2026, 26, 7, 2519-2528 **(Letter)** Subscribed
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ABSTRACT

Cell-Internal Nanomagnetic Forces Alter Cytoskeletal Protein Transport Dynamics in Developing Excitatory Axons

Mackenna K. Landis and Anja Kunze*

Nano Letters 2026, 26, 7, 2529-2537 **(Letter)** Subscribed
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ABSTRACT

Uncovering Design and Assembly Rules for mRNA–DNA Origami

Jack Y. Wang, Jared Huzar, Myoungseok Kim, Taeyoung Ryu, Nahtalee R. Lomeli, Derfogail Delcassian, Do-Nyun Kim, and Grigory Tikhomirov*

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ABSTRACT

Absence of Transport Altermagnetic Spin-Splitting Effect in RuO_2

Yu-Chun Wang, Zhe-Yu Shen, Chia-Hsi Lin, Wei-Chih Hsu, You-Sheng Chen, Yi-Ying Chin, Akhilesh Kr. Singh, Wei-Li Lee, Chien-Te Chen, Ssu-Yen Huang*, and Danru Qu*

Nano Letters 2026, 26, 7, 2548-2554 **(Letter)** Open Access
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ABSTRACT

Ultrafast Dynamics of Excitonic Complexes in Electrolyte-Gated Monolayer MoS_2

Madison C. Schwinn, Vinod K. Sangwan, Stephanie E. Liu, Thomas T. Zeng, Mark C. Hersam*, and Lin X. Chen*

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ABSTRACT

Fast Iodine Conversion Kinetics Enabled by Highly Electrocatalytic Molybdenum Carbide Nanocrystal-Embedded Ordered Carbon Nanocages

Yiming Zhang, Man He, Yushuang Zheng, Junxiong Wu*, Guoyin Zhu, Jiapeng Liu*, Jin Zhao, and Lianbo Ma*

Nano Letters 2026, 26, 7, 2563-2570 **(Letter)** Subscribed
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ABSTRACT

Charge-State Control of Modified Divacancies in Silicon Carbide

Wu-Xi Lin, Qi-Cheng Hu, Zhi-He Hao, Zhen-Xuan He, Ji-Yang Zhou, Wiwittawin Sukmas, Pranut Potiyaraj, Jin-Shi Xu*, Chuan-Feng Li*, and Guang-Can Guo

Nano Letters 2026, 26, 7, 2571-2579 (**Letter**) Subscribed
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ABSTRACT

Biomass-Derived Hard Carbon with Optimized Pseudo-graphitic Domains and Closed Pores for High-Performance Sodium Storage

Jia Song, Zhenzhu Wang*, Jinshu Zhang, Chaozhong Liu, Meijuan Liu, Xinxing Ma, Xianjie Wang, Tai Yao, Zheng Chen, Lizhi Li, Jiheng Zhang, Siping Tan*, and Bo Song*

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Nanoscale Magnetic Texture Induced by Exchange Bias: Insights from NV Magnetometry

L. Petitdemange, S. Geiskopf, G. Malinowski, M. Finocaseiro, M. Pannetier-Lecoeur, M. Bowen, M. Hehn, and D. Lacour*

Nano Letters 2026, 26, 7, 2590-2595 (**Letter**) Subscribed
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ABSTRACT

Flexible On-Chip Device for In Situ Density of States Measurement and Understanding the d-Band Theory with Experiment

Xiongfeng Li, Baokang Niu, Kuan Zhai, and Mengyu Yan*

Nano Letters 2026, 26, 7, 2596-2603 (**Letter**) Subscribed
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ABSTRACT

Compressing Few-Cycle Optical Near Fields in the Tip–Sample Junction of a Scanning Probe Microscope

Tom Jehle, Sam S. Nochowitz, Juanmei Duan, and Christoph Lienau*

Nano Letters 2026, 26, 7, 2604-2610 (**Letter**) Open Access
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ABSTRACT

Making H_2 from Light and Biomass over Ni/Mo_2C Catalysts under Mild Conditions

Yan Chen, Xuhao Song, Jia-Hao Wang, Bin-Yu Gao, Yun-Hui Hu, Xu Han, Jie Guan*, and Yong-Jun Yuan*

Nano Letters 2026, 26, 7, 2611-2618 (**Letter**) Subscribed
Publication Date (Web): February 14, 2026

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ABSTRACT

A Mutually Reinforcing Nanoplatform Orchestrates Immunogenic Ferroptosis and Reprogramming of Tumor-Associated Macrophages for Potent Immunotherapy

Linlin Tao, Weijiao Gong, Nan Yang, Nian Huang, Fangnan Lv, Hao Guo, Siyuan Meng, Wei Xu*, and Meirong Huo*

Nano Letters 2026, 26, 7, 2619-2629 (**Letter**) Subscribed
Publication Date (Web): February 14, 2026

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ABSTRACT

Amorphization-Facilitated Synthesis of Pt_2Bi_2/Pt Heterojunction Nanorods for Highly Efficient Methanol Electrooxidation

Lijun Hu, Heyu Sui, Yan Wang, Yue Chen, Haixia Liu, Youzhi Yang, Li Zhai, Fang Cheng*, Yuanmiao Sun*, and Xue-Jun Wu*

Nano Letters 2026, 26, 7, 2630-2638 (**Letter**) Subscribed
Publication Date (Web): February 11, 2026

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ABSTRACT

A Unified Spatiotemporal Failure Law for Polymer Chains

Yongheng Wang, Xiangzheng Jia, Ruixiang Chen, and Enlai Gao*

Nano Letters 2026, 26, 7, 2639-2644 (**Letter**) Subscribed
Publication Date (Web): February 3, 2026

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ABSTRACT

Engineering Excitonic Metal–Insulator Transitions in Ultrathin Doped Copper Sulfides

Haiyang Chen, Yufeng Liu, Yashi Jiang, Changcang Qiao, Tao Zhang, Jianyang Ding, Shuaishuai Yin, Zhengtai Liu, Zhenhua Chen, Yaobo Huang, Xiaolong Li, Hengxin Tan, Jinfeng Jia, Shiyong Wang*, and Peng Chen*

Nano Letters 2026, 26, 7, 2645-2650 (**Letter**) Subscribed
Publication Date (Web): February 10, 2026

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ABSTRACT

Entropic-Ligand-Driven Efficient and Stable $CsPbI_3$ Quantum Dot Light-Emitting Diodes

Mengjie Li, Yiran Zhao, Wanying Zhang, Xinyang Zhang, Yingwei Wang, Xue Yang, Zhuoyin Peng, Xiaoyu Zhang*, Keqiang Chen*, and Guogang Li*

Nano Letters 2026, 26, 7, 2651-2659 (**Letter**) Subscribed
Publication Date (Web): February 13, 2026

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ABSTRACT

Dimensionality-Driven Terahertz Dirac Magnons in Layered 3*d* Ferromagnets

Khalil Zakeri* and Arthur Ernst

Nano Letters 2026, 26, 7, 2660-2665 (**Letter**) Subscribed
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ABSTRACT

In Situ Click Chemistry for Energy-Level-Tunable Mixed Self-Assembled Monolayers in Perovskite Solar Cells

Yu Feng, Jiefeng Luo, Xue Han, Yuqiang Wu, Kai Zhang, Yu Wang, Saisai Li, Saif M. H. Qaid, Yuanzhi Jiang*, and Mingjian Yuan*

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Publication Date (Web): February 11, 2026

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ABSTRACT

Hydrogen-Bond and Solvation-Shell Dual Modulation Enables Safe Gel Polymer Electrolyte for Lithium Metal Batteries

Xinran Gao, Cheng Zheng, Rui Li, Hongmin Liu, Mingyue Wang, Zhichao Shang, Chunting Wang, Wufan Xuan, Zheng Xing*, Jun Chen, Shi Xue Dou, Nana Wang*, and Zhongchao Bai*

Nano Letters 2026, 26, 7, 2675-2683 (**Letter**) Subscribed
Publication Date (Web): February 11, 2026

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ABSTRACT

Designing Extremely Low-Power Topological Transistors with 1T′-MoS_2 and HZO for Cryogenic Applications

Yosep Park, Yungyeong Park, Hyeonseok Choi, Subeen Lim, and Yeonghun Lee*

Nano Letters 2026, 26, 7, 2684-2690 (**Letter**) Subscribed
Publication Date (Web): February 1, 2026

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ABSTRACT

Self-Intercalation Metallization Enables Low-Resistance Contacts in $ZrSe_2$ and $HfSe_2$

Boyuan Di, Jie Yu, Yijia Jiang, Yuxiang Wang, Shiwan Zou, Liqiang Chen, Ziyi Dong, Jintian Li, Haixin Chang, Yonggang Yao*, and Wenfeng Zhang*

Nano Letters 2026, 26, 7, 2691-2700 (**Letter**) Subscribed
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ABSTRACT

Single-Nanoparticle Plasmon-Driven Phase Engineering of Two-Dimensional $MoTe_2$

Qingsong Tao, Shuangyue Li, Zijing Wu, Yizhou Liu, Libo Zhang, Tao Liang, Chunlei Yu, Fei Yu*, Lili Hu, and Ning Zhou*

Nano Letters 2026, 26, 7, 2701-2708 (**Letter**) Subscribed
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ABSTRACT

Uncovering Hidden Protein Conformations with High Bandwidth Nanopore Measurements

Kyril Kavetsky, Sabine Hong, Chih-Yuan Lin, Roger Yang, and Marija Drndić*

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ABSTRACT

Noninvasive Salivary Ketone Monitoring: A Ratiometric Pdot Biosensor toward Personalized Ketogenic Management

Mingyue Gong, Zhuli Wu, Shiyu Wang, Ziqing Yi, Xiaoju Men, Xiaofeng Fang, Changfeng Wu, and Haobin Chen*

Nano Letters 2026, 26, 7, 2717-2725 (**Letter**) Subscribed
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ABSTRACT

Co-modulating CO Adsorption and Interfacial Water Dissociation through a Lewis Acid Site Boosts Industrial CO_2-to-Ethylene Conversion

Changze Wei, Zheng Lin, Guokang Han, Zhengyi Qian*, Yilin Zhao, Fei Liu, Yingjun Tan, Na Ye, Yi Wei, Chenhui Zhou, Chenglong Sun, Mingchuan Luo, and Shaojun Guo*

Nano Letters 2026, 26, 7, 2726-2734 (**Letter**) Subscribed
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ABSTRACT

All-Solution-Processed Sky-Blue Perovskite Electroluminescence Device via Integrated Supramolecular Host–Guest Post-Treatment

Naizhong Jiang, Zhibin Wang*, Song Zheng, Zhehong Zhou, Ruidan Zhang, Lingwei Zeng, Feng Huang, and Daqin Chen*

Nano Letters 2026, 26, 7, 2735-2743 (**Letter**) Subscribed
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ABSTRACT

Sustainable Binder-Driven Four-Electron $I^-/I^0/I^+$ Conversion in Metal–Iodine Batteries

Jinglin Xian, Sen Xie, Junjie Zheng, Teng Zhai*, and Peihua Yang*

Nano Letters 2026, 26, 7, 2744-2751 (**Letter**) Subscribed
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ABSTRACT

Mechanically Tailored Bending and Twisting of Metallic Nanowires toward Efficient Catalysis

Zongze Zhang, Jinjie Hao*, Zhiwei Yang, Zhijie Yang, Fenghua Zhang, and Jingjing Wei*

Nano Letters 2026, 26, 7, 2752-2760 (**Letter**) Subscribed
Publication Date (Web): February 16, 2026

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ABSTRACT

Tuning Porous Carbon into Hard Carbon via an S_N2 Reaction for Enhanced Sodium Storage

Yan Zhang, Biao Zheng, Qingfeng Fu*, Yan Duan, Aiping Hu, Wenbin Zhong*, and Jilei Liu*

Nano Letters 2026, 26, 7, 2761-2768 (**Letter**) Subscribed
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ABSTRACT

Efficient and Selective Electrooxidation of 5-Hydroxymethylfurfural at Low Voltage by the Pt–O–Ti Interface

Weiwei Zhou, Shuoshuo Fu, An Pei, Junxi Zhang, Xiaoyi Jiang, Renfeng Liu, Huayue Yang, Wei-Hsiang Huang, Shumin Liu, Jian Peng, Yun Zhao*, and Guangxu Chen*

Nano Letters 2026, 26, 7, 2769-2777 (**Letter**) Subscribed
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ABSTRACT

Tunable Hidden Altermagnetic Spin Splitting in Layered Ruddlesden–Popper Oxides

Tongxie Zhang, Linding Yuan*, James M. Rondinelli, H. A. Fertig, and Shixiong Zhang*

Nano Letters 2026, 26, 7, 2778-2786 (**Letter**) Subscribed
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ABSTRACT

Two-Dimensional New Phase Zirconium Dioxide Supported Platinum Interface for Acidic Hydrogen Evolution Reaction

Penghao Li, Mengmeng Xu, Jinxin Chen, Yujin Ji*, Wenxiang Zhu, Fan Liao, Jinzeng Guo, Sihui Pan, Wei-Hsiang Huang, Chih-Wen Pao, Youyong Li, Zhenhui Kang*, Zhiwei Hu, Mingwang Shao*, Xiaoqing Huang*, and Qi Shao*

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ABSTRACT

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Issue Editorial Masthead

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