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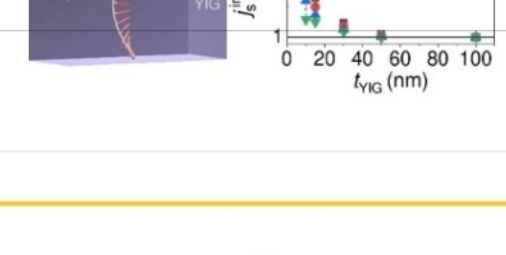
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LETTERS

Large Enhancement of Spin-Flip Scattering Efficiency at Y3Fe5O12/Pt Interfaces Due to Vertical Confinement

Haripriya Madathil, Pranav Pradeep, Paul Noel, and Saúl Vilez\*
Nano Letters 2026, 26, 20, 6525-6533 (Letter) Open Access
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ABSTRACT

Topological Engineering of Chiral Anomalies in Janus Nanoribbons

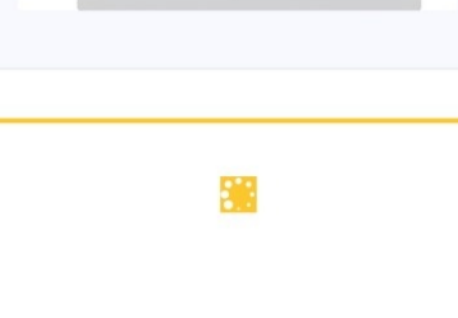
Vasil A. Saroka\*, Victor A. Demin, and Michele Pizzochero\*
Nano Letters 2026, 26, 20, 6532-6540 (Letter) Open Access
Publication Date (Web): March 26, 2026

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ABSTRACT

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Hybrid Plasmonic Nanostructures Using pi-Conjugated Systems for Molecularly Imprinted Polymers

Pierre Bletreau, Sara Gam-Derouich\*, Thi Duyen Dinh, Cat Luong Nguyen, Van-Quynh Nguyen, Stephanie Lau-Truong, and Jean-Christophe Lacouture\*
Nano Letters 2026, 26, 20, 6541-6547 (Letter) Open Access
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ABSTRACT

Hierarchical Structural-Interfacial Engineering with Dynamic Soft-Hard Cross-Linking Enables Full-Range, Ultrasensitive MXene Piezoresistive Sensors

Jiao Li, Xiaomian Zeng, Guofeng Wang, Jizhong Zhang, Zhan Meng, Yue Li, Xuehui Zhu, Lingling Meng, Xueke Jiao, Xiaomeng Zhang, Shuren Liu\*, and Xuying Liu\*
Nano Letters 2026, 26, 20, 6548-6559 (Letter) Open Access
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ABSTRACT

Vesicle-Templated Self-Assembly of Programmable Freestanding Multi-µm DNA Shells

Hao Yuan Yang, Christoph Karfusch, and Friedrich C. Simmel\*
Nano Letters 2026, 26, 20, 6560-6566 (Letter) Open Access
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ABSTRACT

Impact of Surface Treatment on Noise in PL Measurements of Silicon Vacancies in 4H-SiC Lateral PIN-Diodes

Jannik H. Schwarberg\*, Fabian Magerl, Susanne Beuer, Alexander May, Christian Gobert, Martin Siebert, Christian Miersch, Henno Möller, Wolfgang Knolle, Chihang Luo, Jan F. Dick, Franziska C. Beyer, Mathias Rommel, and Jörg Schulte
Nano Letters 2026, 26, 20, 6567-6575 (Letter) Open Access
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ABSTRACT

Controllable Formation of Threefold-Coordinated Oxygen in Graphene by Low-Energy Ion Implantation

Miyoko Tsubokawa\*, Md. Nurul Huda, Jingsong Huang, Wenchang Lu, Eva Zarkadoulia, Jewook Park, Xinze Wang, Zhaolong Chen, Jerzy Bernholc, Aleksandr Rodin, Jilong Lu\*, and An-Ping Li\*
Nano Letters 2026, 26, 20, 6576-6584 (Letter) Open Access
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ABSTRACT

Zwitterionic Polymer Micelles Enable Interface Regulation for Long-Life Aqueous Zinc-Iodine Batteries

Yuxin Zhu, Weixuan Shu, Junpeng Li, Wenxin Xie, Siqi He, Shengchao Chai\*, Yizhan Wang, Ronglin Zhong, and Haolong Li\*
Nano Letters 2026, 26, 20, 6585-6593 (Letter) Open Access
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ABSTRACT

Direct Observation of Two-Dimensional Electron Gas with Low Effective Mass in Atomically Thin InTe

Chao Zhu, Jinlan Shi, Yixiang Liu, Jiajia Feng, Yong Liu, Da Hao, Xiaoyu Lin, Jinghao Deng, Zemin Pan, Hui Zhang, Dongyu Li, Zhiqiang Li, Fuli Yang, Rui Zhou, Chuansheng Liu, Wei Ji\*, Wu Zhou\*, Fan Zhang\*, and Chendong Zhang\*
Nano Letters 2026, 26, 20, 6594-6602 (Letter) Open Access
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ABSTRACT

Plasmonic- and Electronic-Enhancement-Free Coherent Raman Detection of Ångström-Scale Molecular Layers at Metal Interfaces

Toshiaki Sugimoto\*, Tomoaki Ichi, Tsuneto Kanai, Ryo Yoshizawa, Shota Takahashi, Atsunori Sakurai, Ketsue Seto, and Chengxiang Jin
Nano Letters 2026, 26, 20, 6603-6610 (Letter) Open Access
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ABSTRACT

Nanoscale Additive Manufacturing of Sub-24 nm Spacing Silicon Nanowire Arrays and High-Performance GAA FET Based on SiO2/SiN Stacked Multilayers

Wentao Qian, Le Weng, Wei Liao\*, Guangqiao Sang, Junzhan Wang, and Linwei Yu\*
Nano Letters 2026, 26, 20, 6611-6618 (Letter) Open Access
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ABSTRACT

Molecularly Programmed MOF Electrodes Enable Spatial Regulation of Triple-Phase Boundaries in Li-O2 Batteries

Seonyong Cho, Lulu Liu, and Yong-Mook Kang\*
Nano Letters 2026, 26, 20, 6619-6626 (Letter) Open Access
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ABSTRACT

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Robust Topological Surface States and Enhanced Superconductivity in Self-Intercalated PdTe2

Zhiye Wang, Xi Wu, Jiali Yang, Wenhui Duan, and Jie Li\*
Nano Letters 2026, 26, 20, 6627-6632 (Letter) Open Access
Publication Date (Web): May 12, 2026

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ABSTRACT

Precisely Controllable Generation and Characterization of Graphene Nanogaps

Chong Liu, Menglan Li, Fenfa Yao, Chengzhi Zhang, Liang Wu, Qing Chen, Chuanhong Jin, and Jianhui Liao\*
Nano Letters 2026, 26, 20, 6633-6640 (Letter) Open Access
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Valley-Controlled Many-Body Exciton Interactions in Monolayer WSe2 Phototransistors

Daniel Vaqueró\*, Cédric A. Cordero-Silis, Daniel Ekensten, Roberto Rosati, Martijn H. Talmens, Kenji Watanabe, Takashi Taniguchi, Ermin Malik, and Marcos H. D. Guimarães\*
Nano Letters 2026, 26, 20, 6641-6648 (Letter) Open Access
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ABSTRACT

Single-Molecule Identification of Tea Polyphenols and Their Interactions with Metal Ions Using an Engineered Nanopore

Renjie Li, Zhe Zhang, Changhao Xu, Qianqian Cao, Junjie Cao, Dong Zhong, Xinrui Wang, Shuo Huang\*, and Yujin Wang\*
Nano Letters 2026, 26, 20, 6649-6658 (Letter) Open Access
Publication Date (Web): May 14, 2026

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ABSTRACT

Mitigating Internal Gliding of a High-Voltage O3-Type Cathode via Na-Site Doping with High Ionic Potential Cations

Shuai Zhang, Jiesi Wang, Zhanqi Xu, Zhengwei Xu, Xiaozing Wang, Huijun Gao, Xinhai Li, Wenjie Peng, Hui Duan, Guangchao Li, Xiaobo Zheng, Zhongchen Ma, Odjion Abduralmonov, Ulkerjon Sharopov, Hala T. Handal, Wang Hai Kan, and Guochun Yan\*
Nano Letters 2026, 26, 20, 6659-6669 (Letter) Open Access
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ABSTRACT

Carbon Nanotube-Aramid Fiber Enabled Dielectric Dispersion in Paper Composites for Ultrabroadband Lightweight Absorbers

Sicheng Liu, Zhengsheng Huang, Hualihai Tian, Yao Cheng, He Hao, Chenbin Xia, Jin Long, Jian Hu, Jianbo Yin, Zhen Jia, Xiao Wu, Lixin Xuan, Jin Zhang, Yi Wang\*, and Xin Gao\*
Nano Letters 2026, 26, 20, 6670-6679 (Letter) Open Access
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Balanced Water Activity and Enhanced Cation Transport via a Critical Nanoconfined Electrolyte for High-Performance Ah-Level Zn-Ion Batteries

Teng Ma, Peiyuan Sun, Haihan Zhao, Mengqi Wu, Junpeng Li, Chunyu Zhao, Xuejian Shi, Ying Wang\*, Yizhan Wang, and Yingjin Zhao\*
Nano Letters 2026, 26, 20, 6680-6688 (Letter) Open Access
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ABSTRACT

3D Nanotubular Nanoporous N-Doped Graphene with Curvature-Induced Zincophilicity for Ultrafast and Dendrite-Free Zn Deposition

Yanyu Zhang, Xianke Yao, Miaoyu Zhang, Jialin Chen, Peng Du\*, Guoqiang Xie, Jingjun Liu, Kolan Madhav Reddy\*, and Hua-Jun Qiu\*
Nano Letters 2026, 26, 20, 6689-6697 (Letter) Open Access
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Hydrophobicity Does Not Affect Water Slip: Insights from Slip Length Mapping

Haruya Ishida, Koji Takahashi, Vishwanath Ganesan, Nenad Milkovic, and Hideaki Teshima\*
Nano Letters 2026, 26, 20, 6698-6704 (Letter) Open Access
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ABSTRACT

Ferroelectricity in Nonstoichiometric SrTiO3 at the 2D Limit

Zihao Wang, Kai Hu, Chengkai Li, Long Chen, Haoming Ling, Xiaomin Li, Xuodong Bai\*, Han Yan\*, Pan Chen\*, and Jilandi Zhang\*
Nano Letters 2026, 26, 20, 6705-6711 (Letter) Open Access
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Metasurface-Enhanced Momentum-Resolved Circular Dichroism Spectroscopy

Remi Sydelite Dado\*, Piyang Borkhol, Yanyu Xiong, Chi-Ching Liu, Lucille J. Brinkman, Panahsh Moradifar, Feng Pan, Ming Lee Tang, Mark Brongersma, and Jennifer Dionne\*
Nano Letters 2026, 26, 20, 6712-6718 (Letter) Open Access
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Detecting the Complex Amplitude of Surface Plasmon Polaritons by Leakage Radiation Holographic Microscopy

Jiwei Zhang, Jiahao Li, Zhongyong Wang, Weihan Zhang, Siqin Dai\*, Peng Li\*, and Jianlin Zhao\*
Nano Letters 2026, 26, 20, 6719-6728 (Letter) Open Access
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ABSTRACT

Three-Dimensional Nanopatterning Using Extreme Ultraviolet Colloidal Talbot Lithography

Saurav Mohanty, Ethan Flores, Daniel Hur, Richard Mitchell, and Chai-Hao Chang\*
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