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About the Cover:

Artistic rendering of a plasmonic Brownian ratchet, where nanoparticles undergo directional transport across an array of asymmetric gold nanoantennas under optical illumination. The glowing regions represent localized plasmonic fields that bias particle diffusion, enabling rectified motion.
View the article.

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» Additions and Corrections
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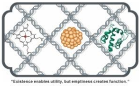
VIEWPOINTS

DNA-Based Molecular Architecture: From Structure to Function

Jiang Li and Chunhai Fan*

Nano Letters 2026, 26, 1, 1-3 **(Viewpoint)** Subscribed
Publication Date (Web): January 1, 2026

First Page | Full text | PDF


"Existence enables utility, but emptiness creates function."

Hydrovoltaics for Energy, Ecology, and Intelligence

Wei Deng, Chun Shen, Jun Yin, Zhuhua Zhang, and Wanlin Guo*

Nano Letters 2026, 26, 1, 4-7 **(Viewpoint)** Subscribed
Publication Date (Web): January 2, 2026

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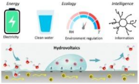
Energy
Ecology
Intelligence
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Clean water
RH
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Environment regulation
Information
Hydrovoltaics

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Advancement in LC-MS to address DMPK challenges for novel modalities
Discover how Orbitrap™ MS tech is accelerating macrocyclic & PROTACs® drug development—faster insights, smarter optimization.

PERSPECTIVES

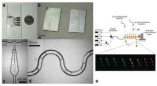
Automated Nanocrystal Synthesis: Lessons from 25 Years of Robots, Microfluidics, and Machine Learning

Emory M. Chan*

Nano Letters 2026, 26, 1, 8-17 **(Perspective)** Subscribed
Publication Date (Web): December 23, 2025

Abstract | Full text | PDF

ABSTRACT



LETTERS

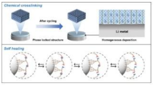
Making an Ultra "Strong–Tough" Interphase by a Dynamic Elastomer in All-Solid-State Lithium Metal Batteries

Wenya Lei, Baoyu Sun, Jiangning Liu, Caiwang Mao, Tuo Zhao, Chen Shengjie, Mahalingam Ravivarma, Chaofan Zhang, Junkai Deng, Hao Fan, and Jiangxuan Song*

Nano Letters 2026, 26, 1, 18-26 **(Letter)** Subscribed
Publication Date (Web): December 30, 2025

Abstract | Full text | PDF

ABSTRACT


Chemical crosslinking
After cycling
Phase locked structure
Li metal
Homogeneous deposition
Self healing

Symmetry Relation in Ultrafast Decay Processes of Single-Crystal Pt

Hongmeng Zhang, Yaohua Jiang, Shuyu Dong, Ye Yuan, Weizheng Liang, Hao Yang, and Yanda Ji*

Nano Letters 2026, 26, 1, 27-33 **(Letter)** Subscribed
Publication Date (Web): December 23, 2025

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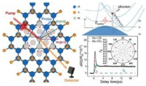
ABSTRACT


Pump
Probe
Detector
phonon
Delay time(ps)

Chemical Pressure Induced Strain Control of Magnetic Anisotropy in the Simple Perovskite ϵ-Fe_2O_3

Subir Roy*, Gurleen K. Uppal, Alberto Acosta, Rachel Nickel, Charles A. Roberts, and Johan van Lierop*

Nano Letters 2026, 26, 1, 34-41 **(Letter)** Subscribed
Publication Date (Web): December 31, 2025

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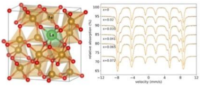
ABSTRACT



Tuning Electronic Skeleton Properties of Porphyrin Covalent Organic Frameworks (COFs) for High-Performance Selective Gas Chemiresistive Sensing

Zhongping Li, Wei Shi*, Jeong-Min Seo*, Hyeonjung Jung, Minyoung Kim, Zhaoying Wang, Yucheng Jin, Changqing Li, Jung-Woo Yoo, Zonghoon Lee, Boseok Kang, Kyu Hyoung Lee*, and Jong-Beom Baek*

Nano Letters 2026, 26, 1, 42-50 **(Letter)** Subscribed
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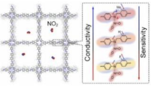
NO2
Conductivity
Sensitivity

Two-Photon-Excited Photoinduced Force Microscopy

Tetsu Tamura, Norihide Sagami, Takeru Sasaki, Wataru Yamamoto, Ryosuke Oketani, and Kotaro Hiramatsu*

Nano Letters 2026, 26, 1, 51-57 **(Letter)** Subscribed
Publication Date (Web): December 20, 2025

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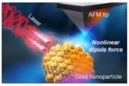
ABSTRACT


Laser
AFM tip
Nonlinear dipole force
Gold nanoparticle

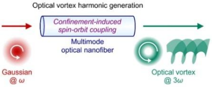
Optical Vortex Harmonic Generation Enabled by Confinement-Induced Photonic Spin–Orbit Coupling

Chang Kyun Ha, Eun Mi Kim, Kyoung Jun Moon, and Myeong Soo Kang*

Nano Letters 2026, 26, 1, 58-66 **(Letter)** Open Access
Publication Date (Web): December 24, 2025

Abstract Full text PDF

ABSTRACT


Optical vortex harmonic generation
Confinement-induced spin-orbit coupling
Multimode optical nanofiber
Gaussian @ ω
Optical vortex @ 3ω

Polyaniline-Facilitated Direct Electron Transfer from Photosystem II on Inverse-Opal CeO_2

Junxian Gao, Yuqin Lu, Jingkai Lin, Wenjie Tian*, Shaobin Wang, and Huayang Zhang*

Nano Letters 2026, 26, 1, 67-73 **(Letter)** Subscribed
Publication Date (Web): November 17, 2025

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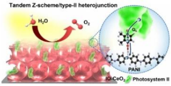
ABSTRACT


Tandem Z-scheme/type-II heterojunction
H2O
O2
PANI
IO-CeO2
Photosystem II

Nanopore Analysis of Malto-oligosaccharides from Amylose, Amylopectin, and Cyclodextrin Hydrolysates

Xinmeng Gao, Yunqi Xiao, Wenzheng Li, Lu Qian, Kefan Wang, Panke Zhang, and Shuo Huang*

Nano Letters 2026, 26, 1, 74-82 **(Letter)** Subscribed
Publication Date (Web): December 31, 2025

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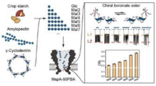
Crop starch
Amylopectin
γ-Cyclodextrin
Glc
Mal2
Mal3
Mal4
Mal5
Mal6
Mal7
Chiral boronate ester
L1
L2
MspA-90PBA

Plasmon-Driven Dimerization Reveals the Propagation Length of Surface Plasmon Polaritons

Jangho Lee and Hyung Gyu Park*

Nano Letters 2026, 26, 1, 83-88 **(Letter)** Subscribed
Publication Date (Web): November 19, 2025

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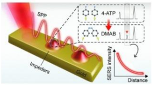
SPP
4-ATP
DMAB
Impeders
Gold
SERS intensity
Distance

ADVERTISEMENT

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Liquid–Solid Hybrid Magneto-Mechanical Force Sensor

Tatsuya Yamamoto*, Tomohiro Ichinose, Hiroki Yasuga, Yuki Okamoto, Yusuke Takei, Takayuki Nozaki, Shingo Tamaru, Kay Yakushiji, Hitoshi Kubota, and Shinji Yuasa

Nano Letters 2026, 26, 1, 89-95 **(Letter)** Subscribed
Publication Date (Web): December 23, 2025

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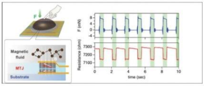
ABSTRACT



Intrinsic Ultrafast Edge Photocurrent Dynamics in WTe_2 Driven by Broken Crystal Symmetry

Subhashri Chatterjee, Katsumasa Yoshioka*, Taro Wakamura, Vasili Perebeinos, and Norio Kumada

Nano Letters 2026, 26, 1, 96-103 **(Letter)** Subscribed
Publication Date (Web): December 21, 2025

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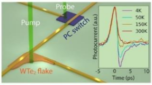
ABSTRACT



Light-Programmable Reorientation of the Crystallographic *c* Axis of Tellurium Thin Films

Yuta Kobayashi*, Arata Mitsuzuka, Haruo Kondo, Makoto Shoshin, Jun Uzuhashi, Tadakatsu Ohkubo, Masamitsu Hayashi*, and Masashi Kawaguchi*

Nano Letters 2026, 26, 1, 104-110 **(Letter)** Subscribed
Publication Date (Web): December 23, 2025

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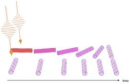
ABSTRACT



Bimetallic Plasmonic Nanoparticle Lattices for Photocatalytic Chemical Transformations

Guanyu Lu, Nam Heon Cho, Sachin P. Kulkarni, Matthew Hershey, Xin Wen, Sang-Min Park, Koray Aydin, Teri W. Odom*, and Dayne F. Swearer*

Nano Letters 2026, 26, 1, 111-119 **(Letter)** Subscribed
Publication Date (Web): January 1, 2026

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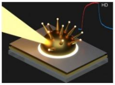

Shape-Dependent Light-Induced Rotation of Non-Birefringent Microparticles by Linearly Polarized Light

Yixuan Wu, Yu Liu, and Shaohua Tao*

Nano Letters 2026, 26, 1, 120-125 **(Letter)** Subscribed
Publication Date (Web): December 28, 2025

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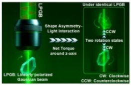
ABSTRACT


LPGB
Shape Asymmetry-Light Interaction
Net Torque around z-axis
Under identical LPGB
CCW
Two rotation states
CW
LPGB: Linearly polarized Gaussian beam
CW: Clockwise
CCW: Counterclockwise

Hexoctahedron in a Nanoframe: Tailoring Stationary and Open Nanogaps for Single-Particle Surface-Enhanced Raman Scattering

Hayoon Jung, Jung Young Jung, Sunghee Kang, Yushin Kim, Dae Han Wi, Heon Chul Kim, Yonghyeon Kim, Jong Wook Hong*, and Sang Woo Han*

Nano Letters 2026, 26, 1, 126-133 **(Letter)** Subscribed
Publication Date (Web): December 26, 2025

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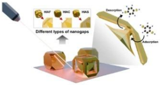
ABSTRACT


HIAF
HIAC
HIAS
Different types of nanogaps
Desorption
Adsorption

Interface Engineering of van der Waals Devices Based on Metal Disulfide Vertical Heterostructures for Enhanced Photoresponse

Minglang Gao, Shiran Sun, Lingxiao Yu, Bochen Zhao, Hanyuan Ma, Yinping Wei, Kexin He, Haifeng Dou, Yifei Wu, Kai Liu, Lin Gan, Zheng-Hong Huang*, Zhongming Wei, Feiyu Kang, and Ruitao Lv*

Nano Letters 2026, 26, 1, 134-141 **(Letter)** Subscribed
Publication Date (Web): December 29, 2025

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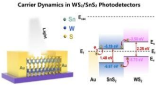
ABSTRACT


Carrier Dynamics in WS₂/SnS₂ Photodetectors
Sn
W
S
Light
Au
Au
E_vac
E_f
-5.19 eV
-3.50 eV
1.48 eV
2.25 eV
-6.67 eV
-5.75 eV
E_c
E_f
E_v
Au
SnS₂
WS₂

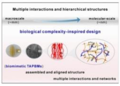
Biological Complexity-Inspired Engineering of Tough and Anisotropic Protein-Based Materials for Adaptive Sensing

Zhe Lu, Zhenhao Zhu, Hao Lu, YaoLong Zhi, Hong Hu, and You Yu*

Nano Letters 2026, 26, 1, 142-151 **(Letter)** Subscribed
Publication Date (Web): December 20, 2025

Abstract Full text PDF

ABSTRACT


Multiple interactions and hierarchical structures
macroscale (~mm)
molecular-scale (~nm)
biological complexity-inspired design
(biomimetic TAPBMs)
assembled and aligned structure
multiple interactions and networks

Nanoelectromechanical Spectral Control of Silicon Bowtie Nanocavities for Quantum Light Sources

Sergei Lepeshov*, Daniel Alec Farbowitz, Thor August Schimmell Weis, Bingrui Lu, Babak Vosoughi Lahijani, Mikkel Heuck, and Søren Stobbe

Nano Letters 2026, 26, 1, 152-157 **(Letter)** Open Access
Publication Date (Web): December 4, 2025

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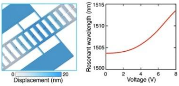
ABSTRACT



Electrical Detection of Magnetic Spin Textures Using Pure Spin Currents in Graphene

Lars Sjöström, Bing Zhao, Maha Khademi, Roselle Ngaloy, Alexei Kalaboukhov, Johan Åkerman, and Saroj P. Dash*

Nano Letters 2026, 26, 1, 158-165 **(Letter)** Open Access
Publication Date (Web): December 21, 2025

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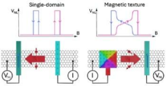
Single-domain
Magnetic texture
V_{NL}
B
V_{NL}
B
V_{NL}
I
I
V_{NL}

Photoluminescence Mechanism and Excited-State Fine Structure of $Cs_2(Na,Ag,K)(In,Bi)Cl_6$ Double Perovskite Nanocrystals

Pushkar Joshi, Małgorzata Zinkiewicz, Mateusz Goryca, Vasyl Stasiv, Aleksandra Wierzbicka, Kamil Sobczak, Yaroslav Zhydachevskyy, Sebastian Maćkowski, and Łukasz Kłopotowski*

Nano Letters 2026, 26, 1, 166-173 **(Letter)** Subscribed
Publication Date (Web): December 30, 2025

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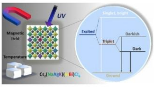
UV
Magnetic field
Temperature
$Cs_2(NaAgK)(Bi)Cl_6$
Singlet, bright
Excited
Triplet
Darkish
Dark
Ground

Ternary $AgBiS_2$ Nanocrystals: Surface and Facet Modulations

Sanjib Shyamal*, Souvik Banerjee, Rajdeep Das, and Narayan Pradhan*

Nano Letters 2026, 26, 1, 174-180 **(Letter)** Subscribed
Publication Date (Web): January 2, 2026

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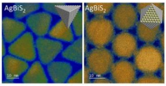
ABSTRACT


$AgBiS_2$
$AgBiS_2$
10 nm
10 nm

Plasmonic Brownian Ratchets for Directed Transport of Analytes

Marciano Palma do Carmo*, David Mack, Diane J. Roth, Miao Zhao, Ancin M. Devis, Francisco J. Rodríguez-Fortuño, Stefan A. Maier, Paloma A. Huidobro, and Aliaksandra Rakovich*

Nano Letters 2026, 26, 1, 181-187 **(Letter)** Open Access
Publication Date (Web): November 26, 2025

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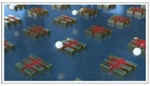

Urinary Exosome Isolation and Enrichment as Enabling Liquid Biopsy by Biologically Intact Exosome Separation Technology: BEST

Taewoon Kim, Wonseok Kim, Sung Jae Kim, Luke P. Lee*, and Jong Wook Hong*

Nano Letters 2026, 26, 1, 188-196 **(Letter)** Subscribed
Publication Date (Web): November 10, 2025

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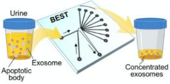
Urine
BEST
Exosome
Apoptotic body
Concentrated exosomes

Aqueous Instability of the Chalcogenide Perovskite $BaZrS_3$

Jie Meng* and Zhenyun Lan*

Nano Letters 2026, 26, 1, 197-204 **(Letter)** Subscribed
Publication Date (Web): December 24, 2025

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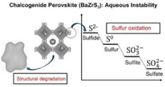
ABSTRACT


Chalcogenide Perovskite ($BaZrS_3$): Aqueous Instability
S^{2-}
Sulfide
Sulfur oxidation
S^0
Sulfur
SO_3^{2-}
Sulfite
SO_4^{2-}
Sulfate
Structural degradation

Physics-Informed Graph Neural Networks for Predicting Deformation in Disordered Fibrous Materials

Shuo Yang, Yunhao Yang, Chen Huang, Runnan Bai, Leitao Cao, Jing Ren, and Shengjie Ling*

Nano Letters 2026, 26, 1, 205-213 **(Letter)** Subscribed
Publication Date (Web): December 26, 2025

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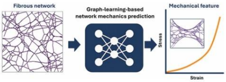
ABSTRACT


Fibrous network
Graph-learning-based network mechanics prediction
Mechanical feature
Stress
Strain

Ferroelectric Control of Interlayer Excitons in 3R-MoS_2/$MoSe_2$ Heterostructures

Johannes Schwandt-Krause, Mohammed El Amine Miloudi, Elena Blundo, Swarup Deb, Jan-Niklas Heidkamp, Kenji Watanabe, Takashi Taniguchi, Rico Schwartz, Andreas Stier, Jonathan J. Finley, Oliver Kühn, and Tobias Korn*

Nano Letters 2026, 26, 1, 214-221 **(Letter)** Subscribed
Publication Date (Web): December 21, 2025

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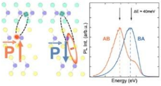
P
P
ΔE ≈ 40meV
AB
BA
PL Int. (arb.u.)
Energy (eV)

Synthesis of Two-Dimensional MoS_2 and WS_2 Films by Enclosed Chemical Vapor Transport Method below the Back-End-of-Line Temperature

Yang Chen, Mouyuan Liu, Song Luo, Peng Wan, Dongyan Liu, Dingyi Shen, Jia Li, Bo Li, Hong Wu, Ruixia Wu, and Xidong Duan*

Nano Letters 2026, 26, 1, 222-230 **(Letter)** Subscribed
Publication Date (Web): January 2, 2026

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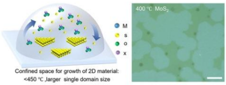
ABSTRACT


M
S
O
X
400 °C MoS2
Confined space for growth of 2D material:
<450 °C ,larger single domain size

Correlated Interlayer Quantum Hall State in Large-Angle Twisted Trilayer Graphene

Dohun Kim, Gyeoul Lee, Nicolas Leconte, Seyoung Jin, Takashi Taniguchi, Kenji Watanabe, Jeil Jung, Gil Young Cho*, and Youngwook Kim*

Nano Letters 2026, 26, 1, 231-237 **(Letter)** Subscribed
Publication Date (Web): December 25, 2025

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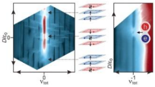
ABSTRACT



Reversible Polymorph Switching in IV–VI Thin Films with Epitaxial Control and Birefringence Contrast

Pooja D. Reddy, Virat Tara, Arturas Vailionis, Arka Majumdar, and Kunal Mukherjee*

Nano Letters 2026, 26, 1, 238-245 **(Letter)** Subscribed
Publication Date (Web): December 26, 2025

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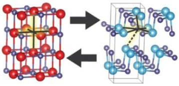


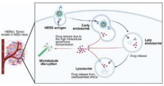
HER2 Antibody–Nanogel Conjugates: A High-Capacity, Antibody-Sparing Alternative to Antibody–Drug Conjugates

Jingyi Qiu, Yasin Alp, Shuai Gong, Paige Szipszky, D. Joseph Jerry*, and S. Thayumanavan*

Nano Letters 2026, 26, 1, 246-253 **(Letter)** Subscribed
Publication Date (Web): December 23, 2025

Abstract Full text PDF

ABSTRACT


HER2+ Tumor model in NSG mice
HER2 antigen
Early endosome
Late endosome
Drug release due to the high intracellular glutathione concentration
Microtubule disruption
Lysosome
Drug release
Drug release from unotosslinked ANCs

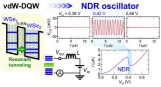
Resonant Tunneling Oscillators Based on WSe_2/*h*-BN/WSe_2 van der Waals Double Quantum Wells

Kei Kinoshita*, Rai Moriya*, Mika Ito, Arisa Nishimura, Shota Okazaki, Momoko Onodera, Kenji Watanabe, Takashi Taniguchi, Takao Sasagawa, Safumi Suzuki, and Tomoki Machida*

Nano Letters 2026, 26, 1, 254-259 **(Letter)** Subscribed
Publication Date (Web): December 26, 2025

Abstract Full text PDF

ABSTRACT


vdW-DQW
NDR oscillator
WSe2
h-BN
WSe2
Vin = 0.38 V
0.42 V
0.46 V
Vout (mV)
t (μs)
Resonant tunneling
Vout
L
Vin
A
I (μA)
NDR
Vin (V)

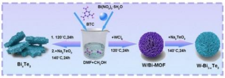
Synergistic Morphology and Electron Modulation Engineering Enables Cation–Anion Cointercalation and Conversion Chemistry

Zhiyuan Zha, Ruinan Chen, Daohong Zhang*, and Qiufan Wang*

Nano Letters 2026, 26, 1, 260-268 **(Letter)** Subscribed
Publication Date (Web): December 30, 2025

Abstract Full text PDF

ABSTRACT


Bi(NO3)3·5H2O
BTC
1. 120°C,24h
2.+Na2TeO3
140°C,24h
+WCl6
120°C,24h
+Na2TeO3
140°C,24h
Bi2Te3
DMF+CH3OH
W/Bi-MOF
W-Bi2-xTe3

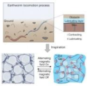
Magneto-Thermal Responsive Semi-convertible Hydrogels Inspired by the Locomotion Mechanism of Earthworms

Feng Gao, Ran Pang, Xuhao Yang, Yuhang Liu, Yutong Fang, Wenlong Song*, Lihua Hong*, and Yulin Wang*

Nano Letters 2026, 26, 1, 269-277 **(Letter)** Subscribed
Publication Date (Web): December 23, 2025

Abstract | Full text | PDF

ABSTRACT



Earthworm locomotion process
Ground
Inspiration

Amifostine–Iron Nanoparacrystalline for Tumor-Selective Immunogenic Ferroptosis

Zhusheng Huang, Hao Zhou, Shiqian Huang, Shaoyin Zhang, Simin Song, Ying Zhang, Yunlu Dai*, Lixing Weng*, Lianhui Wang*, and Zhimin Luo*

Nano Letters 2026, 26, 1, 278-287 **(Letter)** Subscribed
Publication Date (Web): December 25, 2025

Abstract | Full text | PDF

ABSTRACT

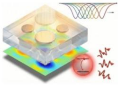
Quasi-Bound State in the Continuum of the Intracoupled All-Dielectric Coherent Metasurface

Tzu-Hsiang Liu, Hung-Yi Wu, and Wen-Hui Sophia Cheng*

Nano Letters 2026, 26, 1, 288-295 **(Letter)** Open Access
Publication Date (Web): December 29, 2025

Abstract | Full text | PDF

ABSTRACT



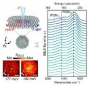
The Efficient Excitation of High-Order Hyperbolic Phonon Polaritons in Boron Nitride Nanoshells

Xiaokang Dai, Chenchen Wu, Xiaowen Zhang, Shu Zhang, Chengchun Tang, Shiyu Yang, Peng Gao, Xiaoxia Yang*, and Qing Dai

Nano Letters 2026, 26, 1, 296-303 **(Letter)** Subscribed
Publication Date (Web): January 2, 2026

Abstract | Full text | PDF

ABSTRACT



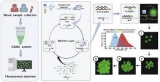
Concentration Imbalance-Driven Nucleotide Circuit for Tick-Borne Encephalitis Virus Detection via Hybridization-Responsive DNA-Templated Silver Nanoclusters

Wenfang Wang, Nan Liu, Yicheng Zhao, Lihe Che*, Changfeng Zhu, Liyan Sui*, Quan Liu, and Guoqing Wang*

Nano Letters 2026, 26, 1, 304-313 **(Letter)** Subscribed
Publication Date (Web): December 24, 2025

Abstract | Full text | PDF

ABSTRACT



Blood sample collection
CIDNC system
Fluorescence detection
Reaction cycle

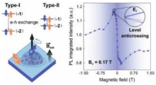
Low-Field Optical Polarization in Type-II Quantum Dots via Nuclear-Driven Dark State Mixing

Gabriel M. Jacobsen, Vinicius A. de Oliveira, Baolai Liang, Morgan E. Ware, Gregory J. Salamo, Gilmar E. Marques, Yuriy I. Mazur, Victor Lopez-Richard, and Marcio D. Teodoro*

Nano Letters 2026, 26, 1, 314-321 **(Letter)** Open Access
Publication Date (Web): December 22, 2025

Abstract | Full text | PDF

ABSTRACT



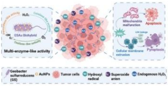
Geobacter sulfurreducens Armed with Biosynthetic Gold Nanoparticles for Tumor-Selective Cascade Catalytic Cancer Therapy

Lingqing Zong, Rui Sang, Xiuwen Zhang, Jie Lay Lim, Senfeng Zhao, Wei Deng, Cindy Gunawan, Rose Amal, Jimmy Yun, Dewei Chu, Wei Tao*, and Zi Gu*

Nano Letters 2026, 26, 1, 322-331 **(Letter)** Subscribed
Publication Date (Web): January 2, 2026

Abstract | Full text | PDF

ABSTRACT



Multi-enzyme-like activity
Mitochondria malfunction
Apoptosis
Cellular membrane extrusion
Pyroptosis
Geobacter sulfurreducens (GS)
AuNPs
Tumor cells
Hydroxyl radical
Superoxide anion
Endogenous H₂O₂

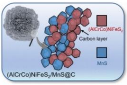
A Designed High-Entropy Sulfide-Based Nanoporous Heterojunction for Fast, Durable, and High-Capacity Sodium Storage

Naixuan Ci, Xianke Yue, Yinghe Zhang, Boxuan Cao*, Lijie Ci*, Guoqiang Xie, Xingjun Liu, Kolan Madhav Reddy*, and Hua-Jun Qiu*

Nano Letters 2026, 26, 1, 332-340 **(Letter)** Subscribed
Publication Date (Web): December 26, 2025

Abstract | Full text | PDF

ABSTRACT



(AlCrCo)NiFeS₂
Carbon layer
MnS
(AlCrCo)NiFeS₂/MnS@C

Ball-Milling-Assisted Magnesiothermic Reduction of Clay Minerals to Nano-Si as High-Performance Lithium-Ion Battery Anodes

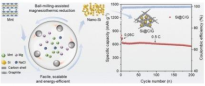
Tao Xiong, Qingze Chen*, Shoushu Wei, Jieyang Xie, Jing Du, Jianxi Zhu, and Runliang Zhu

Nano Letters 2026, 26, 1, 341-350 **(Letter)** Subscribed

Publication Date (Web): December 31, 2025

Abstract | Full text | PDF

ABSTRACT



Chiral Plasmonic Surface Temperature Switching by Several Tens of Kelvins in Titanium Nitride Nanostructures

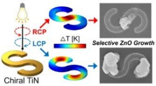
Kenji Setoura*, Tomoya Oshikiri, Mamoru Tamura, Ken Morita, Hideki Fujiwara, Satoshi Ishii, Yusuke Fujii, Yasutaka Matsuo, Takuya Iida, and Kohei Imura

Nano Letters 2026, 26, 1, 351-357 **(Letter)** Open Access

Publication Date (Web): December 22, 2025

Abstract | Full text | PDF

ABSTRACT


RCP
LCP
ΔT [K]
Selective ZnO Growth
Chiral TiN

Nanocages Coupling with Carbides Quantum Dots for Efficient Hydrogen Evolution

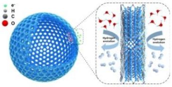
Zejun Zhao, Weina Wang, Zheyu Xiao, Xiaodong Shi, Ruisong Li*, Xinlong Tian*, and Yong Yang*

Nano Letters 2026, 26, 1, 358-364 **(Letter)** Subscribed

Publication Date (Web): December 29, 2025

Abstract | Full text | PDF

ABSTRACT


e⁻
H
C
O
Hydrogen evolution
Hydrogen evolution

Conformational Adaptability and Thermostability in α/β-Peptide Fibrils Induced by β-Amino Acid Substitution

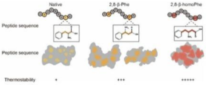
Yingshan Li, Danni Li, Yuxuan Yao, Kaien Liu, Qinyue Zhao, Yiling Zhang, Yongyi Xu, Dan Li, Bo Sun, Cong Liu*, and Bin Dai*

Nano Letters 2026, 26, 1, 365-375 **(Letter)** Subscribed

Publication Date (Web): December 20, 2025

Abstract | Full text | PDF

ABSTRACT


Native
2,6-β-Phe
2,6-β-homoPhe
Peptide sequence
Peptide sequence
Thermostability
+
+++
+++++

When Defects Become the Crystal: Periodic Mirror-Twin Boundary Phases in Substoichiometric 2D-MoTe$_2$

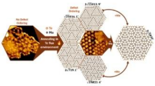
Onyedikachi Alanwoko, Daniil Kruklinskii, Mahdi Ghorbani-Asl, Arkady V. Krasheninnikov, and Matthias Batzill*

Nano Letters 2026, 26, 1, 376-383 **(Letter)** Subscribed

Publication Date (Web): December 23, 2025

Abstract | Full text | PDF

ABSTRACT


No Defect Ordering
Te
Mo
Annealing in Te flux environment
Defect Ordering
2√13R13.9°
√19R36.1°
2√7R19.1°
√19R23.4°
+Mo
+Mo
+Mo

HepatoAI^{LFA}: Machine-Learning-Assisted Nano-enhanced Point-of-Care System for Personalized Precise Diagnosis of Hepatocellular Carcinoma

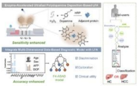
Wanchao Zuo, Xiangming Meng, Siqi Zeng, Wenlu Wei, Qing Yang, Jiaren Song, Qiannan Hu, Shuyue Deng, Donghui Zhang*, Jianjun Dai*, and Yanmin Ju*

Nano Letters 2026, 26, 1, 384-394 **(Letter)** Subscribed

Publication Date (Web): December 26, 2025

Abstract | Full text | PDF

ABSTRACT


Enzyme-Accelerated Ultrafast Polydopamine Deposition-Based LFA
HRP
H₂O₂
Dopamine
Adjacent protein
Sensitivity enhanced
Integrate Multi-Dimensional Data-Based Diagnostic Model with LFA
Age
Sex
AFP
DCP
Discrimination
Calibration
Clinical utility
Accuracy enhanced
End-users
Analyze
Classification
HC
HCC

Low-Dimensionality-Induced Tunable Ferromagnetism in SrRuO$_3$ Ultrathin Films

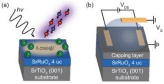
Jinyoung Kim, Minjae Kim*, Donghan Kim, Sungsoo Hahn, Younsik Kim, Minsoo Kim, Byungmin Sohn*, and Changyoung Kim*

Nano Letters 2026, 26, 1, 395-400 **(Letter)** Subscribed

Publication Date (Web): January 1, 2026

Abstract | Full text | PDF

ABSTRACT


(a)
hν
K coverage
SrRuO₃ 4 uc
SrTiO₃ (001) substrate
(b)
V_DS
V_G
Capping layer
SrRuO₃ 4 uc
SrTiO₃ (001) substrate

Transient Absorption Spectroscopy of NbOI$_2$

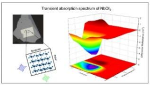
Salman Ahsanullah, Neema Rafizadeh, and Hui Zhao*

Nano Letters 2026, 26, 1, 401-406 **(Letter)** Subscribed

Publication Date (Web): December 20, 2025

Abstract | Full text | PDF

ABSTRACT



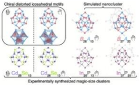
Understanding the Structural Origin of Chirality in Magic-Size Semiconductor Nanoclusters through Self-Assembly Simulations

Hongjin Du, Ellery J. Hendrix, Richard D. Robinson, and Julia Dshemuchadse*

Nano Letters 2026, 26, 1, 407-415 **(Letter)** Subscribed
Publication Date (Web): December 24, 2025

Abstract Full text PDF

ABSTRACT


Chiral distorted icosahedral motifs
Simulated nanocluster
$B_{26}A_{13}$
$B_{37}A_{20}$
$Cd_{26}Se_{13}$
$Cd_{26}Se_{13}$
$In_{26}P_{13}$
$In_{37}P_{20}$
Experimentally synthesized magic-size clusters

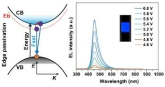
Blue Light-Emitting Diodes Enabled by Edge-Passivated MoS_2 Quantum Sheets

Zhangqiang Li, Guanghan Zhao, Ce Zhao, Yutong Zhang, Bing Zhang, Xinfeng Liu*, Huiqiong Zhou*, and Yong Zhang*

Nano Letters 2026, 26, 1, 416-423 **(Letter)** Subscribed
Publication Date (Web): December 22, 2025

Abstract Full text PDF

ABSTRACT



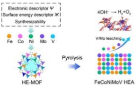
Descriptor-Driven Designed FeCoNiMoV High-Entropy Alloys for Exceptional Oxygen Evolution Activity

Hangyu Wang, Qianxi Zhu, Kaiwen Zheng, Wang Gao*, and Qing Jiang

Nano Letters 2026, 26, 1, 424-432 **(Letter)** Subscribed
Publication Date (Web): January 1, 2026

Abstract Full text PDF

ABSTRACT


Electronic descriptor Ψ
Surface energy descriptor Ж
Synthesizability
Fe Co Ni Mo V
HE-MOF
Pyrolysis
4OH⁻ → H₂+O₂
V/Mo leaching
FeCoNiMoV HEA

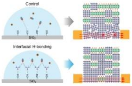
Buried Interface Engineering via Homogenized Two-Dimensional Phase Enables High-Mobility Tin Perovskite Photosynaptic Transistor

Bo Wei Zhang, Dongxu He*, Julian A. Steele, Tingting Mei, Zijian Feng, Zitong Wang, Cheng Zhang, Shanshan Ding, Sichun Yang, Hongzhe Xu, Chun-Ho Lin, and Miaoqiang Lyu*

Nano Letters 2026, 26, 1, 433-440 **(Letter)** Subscribed
Publication Date (Web): January 1, 2026

Abstract Full text PDF

ABSTRACT


Control
SiO_2
Interfacial H-bonding
SiO_2

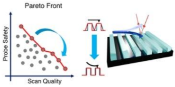
Pareto-Optimal Experimentation: Human-Guided Multi-Objective Bayesian Optimization in Scanning Probe Microscopy

Yu Liu* and Sergei V. Kalinin*

Nano Letters 2026, 26, 1, 441-447 **(Letter)** Subscribed
Publication Date (Web): December 23, 2025

Abstract Full text PDF

ABSTRACT


Pareto Front
Probe Safety
Scan Quality

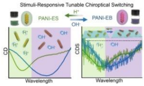
Stimuli-Responsive Tunable Circular Dichroism Using Intrinsically Chiral Plasmon-Polyaniline Hybrid Nanostructures

Binbin Zhang, Qingqing Cheng, Jinyu Ding, Jian Yang, Yunlong Tao, Xuehao Sun, Xinhui Wang, Longxin Liu, Zixuan Yang, Sujing Zhang, Guizeng Yang, Lichao Sun*, and Qingfeng Zhang*

Nano Letters 2026, 26, 1, 448-457 **(Letter)** Subscribed
Publication Date (Web): December 26, 2025

Abstract Full text PDF

ABSTRACT


Stimuli-Responsive Tunable Chiroptical Switching
PANI-ES
H⁺
OH⁻
PANI-EB
CD
CDS
Wavelength
Wavelength

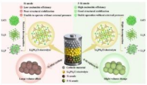
LiF/$LiBO_2$-Rich Silicon-Based Anode Enabling Stable Operation of Sulfide All-Solid-State Lithium-Ion Batteries without Extra External Pressure

Xiang Yan, Liuyi Hu, Yuanchun Zhang, Fei He*, Tianqi Yang, Tiansheng Chen, Yang Xia, Xinhui Xia*, Jun Zhang, Yongping Gan, Wenkui Zhang, Xinping He, Ruyi Fang, Xinyong Tao, and Hui Huang*

Nano Letters 2026, 26, 1, 458-466 **(Letter)** Subscribed
Publication Date (Web): December 31, 2025

Abstract Full text PDF

ABSTRACT


Si anode
Low coulombic efficiency
Poor structural stabilization
Unable to operate without external pressure
F-Si anode
High coulombic efficiency
Good structural stabilization
Stable operation without external pressure
LiCl
Li_2S
Li_3P
Li_6PS_5Cl electrolyte
Li_6PS_5Cl electrolyte
Large volume effect
Slight volume change
Cathode material
Li_6PS_5Cl electrolyte
Si anode
F-Si anode

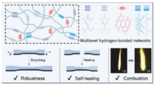
Tough, Self-Healing Polyurethane Binder Constructed Using Multilevel Hydrogen-Bonded Networks for Composite Solid Propellants

Hanyu Chen, Hao Li, Minghao Zhang, Zhishuai Geng*, Fanzhi Yang, Yunjun Luo, and Min Xia*

Nano Letters 2026, 26, 1, 467-474 **(Letter)** Subscribed
Publication Date (Web): December 26, 2025

Abstract Full text PDF

ABSTRACT


Multilevel hydrogen-bonded networks
F
F
Stretching
Healing
✓ Robustness
✓ Self-healing
✓ Combustion

First-Principles Prediction of Carrier Mobility in Semiconductor Nanowires Based on the Spatially Dependent Boltzmann Transport Equation

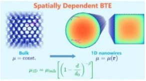
Zirui He, Shang-Peng Gao*, and Meng Chen*

Nano Letters 2026, 26, 1, 475-481 **(Letter)** Subscribed

Publication Date (Web): December 23, 2025

Abstract Full text PDF

ABSTRACT


Spatially Dependent BTE
Bulk
$\mu = \text{const.}$
1D nanowires
$\mu = \mu(\mathbf{r})$
$\mu_{1D} = \mu_{bulk}\left[\left(1 - \frac{d}{d_0}\right)^{-\beta}\right]$

Twist-Induced Giant Modulation of Optical and Optoelectronic Anisotropy in van der Waals NbOX$_2$ Homo-/Heterostructures

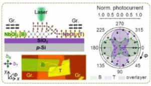
Jichang Zhang, Gaolei Zhao, Zheng Hao, Jinkai Huo, Haoran Li, Konstantin Kozadaev, Yongjiang Li, Changsen Sun, Alexei Tolstik, Andrey Novitsky, Andrei Zheltkovich, Lujun Pan, and Dawei Li*

Nano Letters 2026, 26, 1, 482-490 **(Letter)** Subscribed

Publication Date (Web): January 2, 2026

Abstract Full text PDF

ABSTRACT


Laser
Gr.
Gr.
NbOI$_2$ (B)
NbOI$_2$ (T)
SiO$_2$
p-Si
B
T
Gr.
Gr.
Norm. photocurrent
1.0 0.5 0.0 0.5 1.0
270
225
315
180
0
135
45
90
φ
B
T
overlayer

Sustainable Green Ammonia Production from Water and Air at Room Temperature

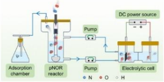
Xue-Feng Sun, Xia Kang, Miao-Miao Shi, Fei-Fei Zhang*, Zhe Meng, Bo Bi, Guo-Feng Qiu, and Jun-Min Yan*

Nano Letters 2026, 26, 1, 491-500 **(Letter)** Subscribed

Publication Date (Web): December 23, 2025

Abstract Full text PDF

ABSTRACT


DC power source
Pump
Pump
Adsorption chamber
pNOR reactor
Electrolytic cell
N
O
H

Boric Acid-Derived Carbon Dot Scintillators for X-ray Imaging

Lihui Hou, Xuhui Xu, Siqi Li, Xue Yu*, and Ting Wang*

Nano Letters 2026, 26, 1, 501-508 **(Letter)** Subscribed

Publication Date (Web): December 29, 2025

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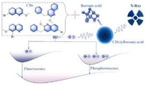
ABSTRACT


CDs
Boronic acid
X-Ray
CDs@Boronic acid
Fluorescence
Phosphorescence

Milliwatt Second Harmonic Generation in a Photonic Crystal Microcavity via Harmonic Wavelength Resonance

Lun Qu, Jiaxian Zhao, Weiye Liu, Chenyang Li, Lu Bai, Lin Li, Feihu Fan, Xinyu Sun, Maobin Xie, Zhongshi Huang, Qinglian Li, Wei Wu, Wei Cai, Shaowei Wang*, Mengxin Ren*, and Jingjun Xu*

Nano Letters 2026, 26, 1, 509-516 **(Letter)** Subscribed

Publication Date (Web): January 1, 2026

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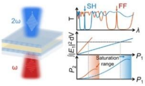
ABSTRACT


2ω
ω
SH
FF
T
λ
$\int|E_1|^2 dV$
P_2
P_1
P_1
Saturation range

A Modular Self-Driving Laboratory for Automated Synthesis of CsPb(Cl/Br/I)$_3$ Perovskite Nanocrystals

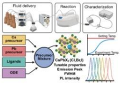
Yixuan Chen, Mahyar Rajabi-Kochi, Guanqi Huang, Jiaze Wu, Siyue Wang, Joanna Xu, Seyed Mohamad Moosavi, and Kai Huang*

Nano Letters 2026, 26, 1, 517-525 **(Letter)** Subscribed

Publication Date (Web): December 30, 2025

Abstract Full text PDF

ABSTRACT


Fluid delivery
Reaction
Characterization
Cs precursor
Pb precursor
Ligands
ODE
Precursor Mixture
CsPbX$_3$ (Cl,Br,I)
Tunable properties
Emission Peak
FWHM
PL Intensity
Setting Temp.
Experiment Temp.

Energy Level Engineering of PbS Quantum Dots via Aluminum Surface Modification for High-Performance Infrared Photodetectors

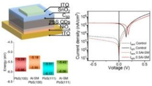
Bo Wang, Yuxuan Liu, Jing Liu*, Huilei Shi, Hailing Guo, Mingyu Li, Zhaofu Zhang, Yuzheng Guo, Shengman Li, Michael Wang, Chris Cheng, Xinzheng Lan, Jianbing Zhang, Liang Gao*, and Jiang Tang*

Nano Letters 2026, 26, 1, 526-531 **(Letter)** Subscribed

Publication Date (Web): December 22, 2025

Abstract Full text PDF

ABSTRACT



A Nanoimprinted Photothermal Chip for On-Demand Spatiotemporal Activation of CRISPR/Cas9 Gene Editing

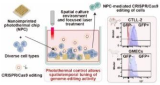
Kerong Chen, Jiayi Zhu, Chunyun Fan, Anwei Zhou*, Binyi Li*, Haixiong Ge*, and Xinghai Ning*

Nano Letters 2026, 26, 1, 532-542 **(Letter)** Subscribed

Publication Date (Web): December 23, 2025

Abstract Full text PDF

ABSTRACT


Nanoimprinted photothermal chip (NPC)
Diverse cell types
CRISPR/Cas9 editing
Spatial culture environment and focused laser treatment
NPC-mediated CRISPR/Cas9 editing of cells
CTLL-2
GFP-
GFP+
GMECs
GFP-
GFP+
Photothermal control allows spatiotemporal tuning of genome-editing activity

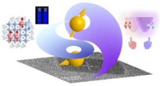
Unraveling Chiral Exciton g_{ex}-Factor through Magneto-Optical Methods for Pure Blue Chiral Perovskite Nanocrystal Emitters

Xiangpeng Zhang, Liuyi Xiong, Linze Jiang, Jing Li, Jin Zhou, Chao Qian, Jialin Sun, Suling Zhao, Bo Qiao*, Zhi-gang Yu*, and Kai Wang*

Nano Letters 2026, 26, 1, 543-551 **(Letter)** Subscribed
Publication Date (Web): January 5, 2026

Abstract Full text PDF

ABSTRACT



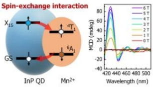
Spin-Exchange Interaction in Mn^{2+}-Doped InP Colloidal Quantum Dots Revealed through Correlated Magneto-Optical Spectroscopy and Transient Carrier Dynamics

Pan Huang, Lifeng Wang, Tianxin Bai, Yongshun Lv, Jingyi Zhu*, Fangze Liu, Hongbo Li*, and Kaifeng Wu*

Nano Letters 2026, 26, 1, 552-559 **(Letter)** Subscribed
Publication Date (Web): December 22, 2025

Abstract Full text PDF

ABSTRACT



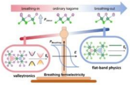
Breathing Tuned Functionality in Janus Kagome Monolayers

Kai-Qi Wang, Jun-Ding Zheng, Wen-Yi Tong*, and Chun-Gang Duan*

Nano Letters 2026, 26, 1, 560-567 **(Letter)** Subscribed
Publication Date (Web): January 4, 2026

Abstract Full text PDF

ABSTRACT


breathing-in
ordinary kagome
breathing-out
valleytronics
Breathing ferroelectricity
flat-band physics

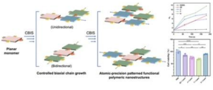
Discrete Patterned Functional Polymeric Nanostructures via Controlled Biaxial Iterative Synthesis

Baiyang Chen, Li Yu, Kaiyuan Song, Xiangyu Quan, Yihan Liu, Yiming Wang, Ting Shi, Yongfeng Zhou, Xinyuan Zhu, and Ruijiao Dong*

Nano Letters 2026, 26, 1, 568-578 **(Letter)** Subscribed
Publication Date (Web): December 29, 2025

Abstract Full text PDF

ABSTRACT


Planar monomer
CBIS
(Unidirectional)
(Bidirectional)
Controlled biaxial chain growth
CBIS
Atomic-precision patterned functional polymeric nanostructures

---

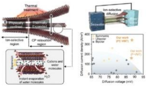
Asymmetric Two-Dimensional Nanomembranes for Salinity Gradient Energy Conversion

Sungsoon Kim, Hong Choi, Jihun Yeom, Taeyoung Kim, Taehoon Kim, Ji Hoon Han, Jongbum Won, Minwoo Lee, Hyesoo Kim, Jihong Bae, Bokyeong Kim, Geonwoo Lim, Juan Bisquert, and Wooyoung Shim*

Nano Letters 2026, 26, 1, 579-588 **(Letter)** Subscribed
Publication Date (Web): January 5, 2026

Abstract Full text PDF

ABSTRACT


Thermal treatment
Ion-selective region
CP relaxation region
Cations and water molecules
Instant evaporation of water molecules
Ion-selective diffusion
Diffusion current density
Diffusion voltage (mV)

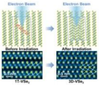
Direct Observation of Self-Intercalation Driven 2D-to-3D Phase Transition in VSe_2

Jianchu Chen, Jianwei Zhang, Kai-Qi Wang, Jun Zeng, Yuhan Du, Xiang Yuan, Ke Qu*, Zhenzhong Yang*, and Chungang Duan*

Nano Letters 2026, 26, 1, 589-596 **(Letter)** Subscribed
Publication Date (Web): December 22, 2025

Abstract Full text PDF

ABSTRACT


Electron Beam
Electron Beam
Before Irradiation
After Irradiation
0.5 nm
0.5 nm
1T-VSe2
3D-VSe2

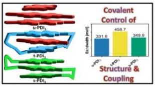
Covalent Control of Excitonic Interactions in Perylenediimide Trimers: A Computational Study

Ajay Khanna*, Jean-Hubert Olivier, Sebastian Fernandez-Alberti, and Sergei Tretiak*

Nano Letters 2026, 26, 1, 597-605 **(Letter)** Subscribed
Publication Date (Web): January 1, 2026

Abstract Full text PDF

ABSTRACT


Covalent Control of
u-PDI3
t-PDI3
s-PDI3
Bandwidth (meV)
331.6
458.7
349.9
Structure & Coupling

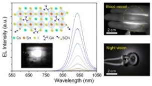
Functional Component Driven Phase Stabilization and Defect Passivation toward Efficient and Air-Stable $CsSnI_3$ Near-Infrared Light-Emitting Diodes

Xinzhen Ji, Yiping Yang, Xiaoyang Xing, Yunlong Yang, Shuailing Lin, Qianli Liu, Meng Wang, Jingli Ma, Weihong Chu, Niannian Wang, Zhenghao Xia, Huifang Ji, Fei Zhang, Ying Liu, Zhuangzhuang Ma, Jibin Zhang, Xin-Jian Li, and Zhifeng Shi*

Nano Letters 2026, 26, 1, 606-613 **(Letter)** Subscribed
Publication Date (Web): December 29, 2025

Abstract Full text PDF

ABSTRACT



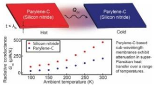
Attenuating Super-Planckian Radiative Heat Transfer in Nanoscale Structures

Ayan Majumder, Kanishka Panda, Rohith Mittapally, Pramod Reddy*, and Edgar Meyhofer*

Nano Letters 2026, 26, 1, 614-622 **(Letter)** Subscribed
Publication Date (Web): December 31, 2025

Abstract Full text PDF

ABSTRACT



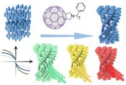
Chiral Fullerene Enables Strong, Sign-Tunable, and Full-Spectrum Circularly Polarized Luminescence with a Third-Order Nonlinear Optical Response in Liquid Crystal Matrices

Jinrui Li, Yuhao Liu, Yiran Zhang, Xia Xin, Pengyao Xing*, and Hongguang Li*

Nano Letters 2026, 26, 1, 623-631 **(Letter)** Subscribed
Publication Date (Web): December 23, 2025

Abstract Full text PDF

ABSTRACT



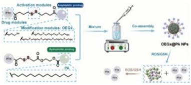
Hydrophobic/Amphiphilic Prodrug Coassembly Strategy: Exploring the Effect of Oligoethylene Glycol Chains on the Antitumor Efficacy of Nanoassemblies

Jun Yuan, Shuo Wang, Wenjing Wang, Yuhang Zhang, Yaqi Li, Qing Wang, Yuebin Dai, Minglong Huang, Zhonggui He, Bingjun Sun*, and Jin Sun*

Nano Letters 2026, 26, 1, 632-640 **(Letter)** Subscribed
Publication Date (Web): January 3, 2026

Abstract Full text PDF

ABSTRACT


Activation modules
Amphiphilic prodrug
Drug modules
Modification modules: OEGx
Hydrophobic prodrug
PA
Mixture
Co-assembly
OEGx@PA NPs
ROS/GSH

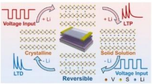
Ionic–Electronic Coupling Enables Stable and Precise Memristive Switching through Reversible Crystalline–Solid Solution Transition

Huihan Li, Haozhe Jin, Ze Hua, Weili Zhen*, Dongliang Yang, Tianze Yu, Zirui Zhang, Ce Li, Qianyu Zhang, Weiting Miao, Luhan Wang, Hongxing Yin, Zhaoming Lu*, Ruiwen Shao*, and Linfeng Sun*

Nano Letters 2026, 26, 1, 641-650 **(Letter)** Subscribed
Publication Date (Web): December 31, 2025

Abstract Full text PDF

ABSTRACT


Voltage Input
+ Li
+ Li
LTP
Crystalline
Solid Solution
- Li
- Li
LTD
Reversible
Voltage Input
V
S
Li

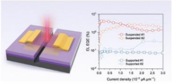
Highly Efficient Dual-Gated Light-Emitting Diodes Based on Suspended Monolayer WSe_2

Zhenliang Hu, Weiqiao Xia, Qiang Fu*, Zhicong Wu, Xianxian Jiang, Xu Han, Shixuan Wang, Xudong Sun, Jiahao Chen, Tianxiang Zhao, Xiaoya Liu, Zhexing Duan, Yuan Huang, Junjia Wang, Junpeng Lu, Fan Zhong*, Qi Zhang*, and Zhenhua Ni*

Nano Letters 2026, 26, 1, 651-659 **(Letter)** Subscribed
Publication Date (Web): December 19, 2025

Abstract Full text PDF

ABSTRACT



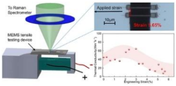
Deep Strain-Mediated Thermal Transport in Silicon Nanowires

Yanchao Li, Wencong Shi, Zhentao Pang, Weiye Nie, Wenwu Cao, Yu Deng*, and Baoming Wang*

Nano Letters 2026, 26, 1, 660-667 **(Letter)** Subscribed
Publication Date (Web): December 30, 2025

Abstract Full text PDF

ABSTRACT


To Raman Spectrometer
MEMS tensile testing device
Applied strain
10μm
Strain 5.65%
Thermal Conductivity (Wm^{-1}K^{-1})
Engineering Strain(%)
+
-

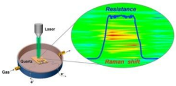
Mechanistic Insights into NO_2 Sensing at Room Temperature: Oxygen Vacancy Dynamics Revealed by *in Situ* Optoelectronic Characterization

Ji Li, Na Zhao, Xianghong Liu*, Xiao Chang, Wei Zheng, and Jun Zhang*

Nano Letters 2026, 26, 1, 668-675 **(Letter)** Subscribed
Publication Date (Web): January 2, 2026

Abstract Full text PDF

ABSTRACT


Resistance
Laser
Quartz
Gas
Raman shift

ADDITIONS AND CORRECTIONS

Correction to “Discovery of a Stripe Phase in an Elemental Solid”

Maksim Litskevich, Md Shafayat Hossain, Yang Fu, Hu Miao, Yuxiao Jiang, Guangming Cheng, Pengcheng Chen, Qi Zhang, Zi-Jia Cheng, Raul Acevedo-Esteves, Christie Nelson, Haozhe Wang, Jose L. Gonzalez Jimenez, Brian Casas, Xiaoxiong Liu, Stepan S. Tsirkin, Kouta Dagnino, Songbo Zhang, Chia-Hsiu Hsu, Sen Shao, Shaogang Xu, Tyler A. Cochran, Xian P. Yang, Hu Xu, Jiaxin Yin, Yaroslav A. Gerasimenko, Weiwei Xie, Nan Yao, Luis Balicas, Guoqing Chang, Titus Neupert, Hechang Lei, and M. Zahid Hasan

Nano Letters 2026, 26, 1, 676 **(Addition/Correction)** Subscribed
Publication Date (Web): December 25, 2025

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MASTHEADS

Issue Editorial Masthead

Nano Letters 2026, 26, 1, XXX-XXX **(Article)** Subscribed
Publication Date (Web): January 14, 2026

First Page PDF

Issue Publication Information

Nano Letters 2026, 26, 1, XXX-XXX **(Article)** Subscribed
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First Page PDF

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