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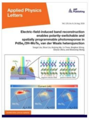
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Electric-field-induced band reconstruction enables polarity-switchable and spatially programmable photoresponse in $PdSe_2$/2H-$MoTe_2$ van der Waals heterojunction

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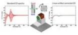
LOW-DIMENSIONAL AND TOPOLOGICAL PHYSICS
ELECTRONICS AND

PERSPECTIVES



A step-by-step workflow to account for linear polarization artifacts in circular dichroism of thin films ✓

Franziska Schölzel; Arina Narudin; Aleksandra Ciesielska; Alexander Ehm; Dietrich R. T. Zahn; Wouter Van Gompel; Simon Kahmann; Georgeta Salvan

Appl. Phys. Lett. 129, 080501 (2026) https://doi.org/10.1063/5.0340813

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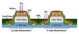
OPTICS, PHOTONICS, AND ELECTROMAGNETISM



Experimental determination of electron and hole impact ionization coefficients in GaN avalanche photodiodes ✓

In Special Collection: Frontiers in Nitride Semiconductors Research

Xuzhi Zhao; Haifan You; Haiping Wang; Feiyu Zhang; Zhan Ma; Jiandong Ye; Bin Liu; Hai Lu; Rong Zhang; Youdou Zheng; Dunjun Chen

Appl. Phys. Lett. 129, 081101 (2026) https://doi.org/10.1063/5.0340806

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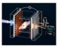

Fano-assisted LC-FP filtering for electrically tunable near-infrared imaging ✓

Zongtao Chen; Zhe Wang; Taige Liu; Xinzhe Yao; Xuan Shao; Fangchen You; Haiwei Wang; Xinyu Zhang

Appl. Phys. Lett. 129, 081102 (2026) https://doi.org/10.1063/5.0344852

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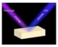

Amplified spontaneous deep-blue emission in sub-millimeter sized CsPbCl3 crystals ✓

Zhuo Yu; Bingheng Meng; Sheng-Yu Chen; Lingpeng Bai; Yida Li; Yuan Zhu; Longxing Su

Appl. Phys. Lett. 129, 081103 (2026) https://doi.org/10.1063/5.0349578

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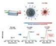

Size-dependent enhancement of stimulated Raman scattering in water via graphene quantum dots ✓

Danyang Cui; Haixin Wang; Xueliang Xu; Yi Zheng; Wenhui Fang; Zhiwei Men

Appl. Phys. Lett. 129, 081104 (2026) https://doi.org/10.1063/5.0342759

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Hard x-ray holographic nanoimaging using multilayer Laue lenses F

Mathias Hurst; Jia Chyi Wong; Marcus Zuber; Mateusz Czyzycki; Margarita Zakharova; Mauro Prasciolu; Naufal I. Kreshnaviyanto; Rolf Simon; Daniel Hänschke; Elias Hamann; Henry N. Chapman; Saša Bajt; Tilo Baumbach

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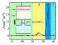

Electricity resonance-accelerated water evaporation in functionalized carbon nanochannels ✓

Zhigao Zhao; Kaiyue Yu; Zhang Xie; Shaoqian Hao; Jianlong Kou

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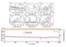
Thermal properties of graphene and carbon materials—From physics to applications in thermal management
Alexander A. Balandin, Johan Liu, et al.

Microwave-photonic control of optically accessible spin defects in diamond
M. Reefaz Rahman, Ryan H. Goldsmith, et al.



Enabling high stability lithium–sulfur batteries by separator modification with chemically bonded functional groups ✓

In Special Collection: Thermal Properties of Graphene and Carbon Materials – From Physics to Applications in Thermal Management

Zhe Liu; Shuhao Tian; Kun Tao; Zhenting Wu; Xiaoyi Hou; Shanglong Peng

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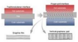

Finger-joint-assembled graphitic interface materials for enhanced thermal contact conductance ✓

Menglin Li; Jingwen Zhang; Xinyue Zhang; Menglong Hao

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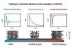
MATERIALS PHYSICS



Comprehensive study of carrier dynamics in gradient hydrogenated NdNiO$_3$ using broadband ultrafast transient reflectivity spectroscopy ✓

Zhaofei Sun; Jiahui Sun; Zhen Zhang; Xuegang Chen

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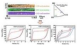

Effects of crystallographic orientation on the superelastic response of Mg–Sc single crystals Ⓟ ✓

Jun Sun; Xuexi Zhang; Mingfang Qian; Yunhao Li; Varvara Romanova; Liying Sun; Lin Geng

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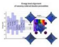

Energy-level alignment of vacancy-ordered halide double perovskites ✓

I. B. Garba; G. Volonakis

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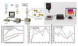

Infrared temperature gradient microstructure mapping for optimizing filler dispersion in oriented h-BN/Al$_2$O$_3$/PDMS thermal interface materials ✓

Xing Guo; Ruoyu Huang; Lishi Fu; Lingyu Chen; Sheng Chen; Mingyuan Lin; Rui Mu; Yufeng Zhang; Xue-ao Zhang

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Probing structural symmetry breaking in TMDC alloy via terahertz emission ✓

Emil Chiglintsev; Fedor Shuklin; Ksenia Shevyakova; Alexander V. Syuy; Dmitry I. Yakubovsky; Alexander I. Chernov

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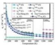

Four-phonon scattering and coherent heat transport in ultrawide-bandgap SrSnO$_3$ ✓

Xuejie Li; Xiaoying Wang; Shengying Yue; Turab Lookman; Xiangdong Ding; Jun Sun; Zhibin Gao

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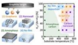

Direct low-temperature deposition of graphene on an insulator via hydrogen-assisted sputtering Ⓟ ✓

Hiromasa Murata; Rion Kikuna; Katsuhisa Murakami; Masayoshi Nagao; Takeo Nakano

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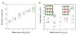

Stable structures of $(V_{Ga}V_N)_n$ defects in bulk GaN

In Special Collection: Frontiers in Nitride Semiconductors Research

Hiroyuki Ishihara; Masato Oda; Tsuyoshi Miyazaki

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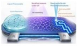

Solid-phase electron-beam-induced processing of liquid polysilanes for direct-write silicon-rich micro/nanostructures at room temperature

Erbing Hua; Cristiano Glessi; Ryoichi Ishihara

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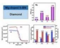
PHYSICS OF SEMICONDUCTORS



High mobility *p*-type doping of hexagonal boron nitride films on diamond (100) substrates

Renjie Liu; Ze Long; Yuning Ding; Zhongyuan Han; Qiong Wu; Jialu Li; Hongwei Liang; Hong Yin

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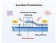

Photo-pyroelectric effect induced by interfacial symmetry breaking in van der Waals contacts for self-powered dual-mode photodetection

Yueheng Lu; Jinbiao Tan; Zhenye Zhan; Yang Zhou; Weiguang Xie

Appl. Phys. Lett. 129, 082102 (2026) https://doi.org/10.1063/5.0348988

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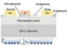

Surface field reduction in hydrogen-terminated diamond MESFET for high-voltage applications

Suyu Wang; Genqiang Chen; Wei Wang; Minghui Zhang; Xixiang Zhao; Shumiao Zhang; Fang Lin; Xiaofan Zhang; Feng Wen; Pengfei Zhang; Hong-Xing Wang

Appl. Phys. Lett. 129, 082103 (2026) https://doi.org/10.1063/5.0318012

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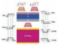

X-ray logic gates and material discrimination via a four-terminal silicon/perovskite tandem detector

Xiao Tian; Wenge Liu; Jiyu Zhou; Jiawang Chen; Ming Gao; Mingpeng Zhang; Molang Cai; Xing Li

Appl. Phys. Lett. 129, 082104 (2026) https://doi.org/10.1063/5.0349224

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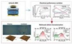

Electrical characteristics and defect evolution in β-Ga_2O_3 Schottky barrier diodes under 14 MeV neutron irradiation

Puyu Zhai; Yushan Song; Liang Chen; Leidang Zhou; Hao Chen; Penghui Zhao; Xiaojing Song; Xiao Ouyang

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Flexoelectricity in ripple-engineered monolayer MoS_2

Sabir Hussain; Tariq Abbas; Debismita Dutta; Anurag Pritam; Nives Strkalj; Natasa Vujicic; Ian Povey; Lynette Keeney

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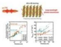

Stacking-engineered thermal transport and phonon filtering in rhenium disulfide

Yongjian Zhou; Haoran Cui; Zefang Ye; Jung-Fu Lin; Yan Wang; Yaguo Wang

Appl. Phys. Lett. 129, 082107 (2026) https://doi.org/10.1063/5.0342816

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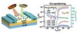

Boosting the electrical performance and stability of InAlO thin-film transistors through dual-target co-sputtering method ✓

Wenbin Gong; Zhenyu Han; Genglong Zhao; Ablat Abliz

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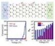

Spin rectification and optoelectronic properties of asymmetric edge passivated armchair SiC nanoribbon PN junction ✓

Shu-Ling Deng; Zhen Zhu; Qian Liu; Zhi-Qiang Fan; Hong-Li Chen; Ke-Qiu Chen

Appl. Phys. Lett. 129, 082109 (2026) https://doi.org/10.1063/5.0352326

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PHONONIC, ACOUSTIC, AND THERMAL PROPERTIES

Artificial porous crystal for broadband attenuation of surface gravity waves ✓

Huaqing Jin; Haicheng Zhang; Qijia Shi; Sichao Qu; Zixun Ge; Xiaofan Li

Appl. Phys. Lett. 129, 082201 (2026) https://doi.org/10.1063/5.0341682

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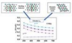

Ultralow intrinsic lattice thermal conductivity induced by rattling behavior and dynamic rotation in the hexagonal CsMgX$_3$ (X = Cl, Br, I) ✓

Chenkai Zhang; Xuewen Yang; Xinyu Sheng; Chengwei Yang; Yunhu Liu; Guixian Ge; Jueming Yang

Appl. Phys. Lett. 129, 082202 (2026) https://doi.org/10.1063/5.0344589

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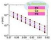
MAGNETISM AND SPINTRONICS



Hydrogen-induced modulation of magnetic domain wall creep velocity in Pd/Co/Pd system ✓

T. Koyama; D. Chiba

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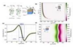

Low-damping spin dynamics in thin sputtered FeGa films for strain-mediated spintronics F ✓

Madeleine Ghobar; Cynthia Bou Karroum; Matthieu Liparo; Aletta R. E. Prinsloo; Charles J. Sheppard; Gaëlle Simon; Jérôme Robert; Nolwenn Le Breton; Alain Fessant; Jean-Philippe Jay; David T. Dekadjevi; David Spenato

Appl. Phys. Lett. 129, 082402 (2026) https://doi.org/10.1063/5.0343561

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DIELECTRICS, FERROELECTRICS, AND MULTIFERROICS

Operational cycling voltage dependence of the oxygen vacancy distribution in 6 nm Hf$_{0.5}$Zr$_{0.5}$O$_2$ ferroelectric capacitors ✓

Nicholas Barrett; Lucía Pérez Ramírez; Somnath Kale; Gunjan Yadav; Ibrahima Gueye; Okkyun Seo; Jean Coignus; Nicolas Vaxelaire; Laurent Grenouillet

Appl. Phys. Lett. 129, 082901 (2026) https://doi.org/10.1063/5.0333738

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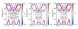

Synergistic manipulation of valley splitting by sliding ferroelectricity and magnetic proximity effect in Ti-based TMH/MnO/TMH heterostructures ✓

Shuisheng Yi; Yumin Liao; Peiyao Chen; Xinqian Cui; Ke Wu; Xumin Chen; Dexuan Huo

Appl. Phys. Lett. 129, 082902 (2026) https://doi.org/10.1063/5.0347487

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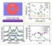
LOW-DIMENSIONAL AND TOPOLOGICAL PHYSICS



Exploring two-phonon Raman scattering in bilayer graphene by carbon isotope labeling ✓

Jinglan Liu; Qiancheng Ren; Shuyue Wu; Fanxiu Chen; Pei Zhao

Appl. Phys. Lett. 129, 083101 (2026) https://doi.org/10.1063/5.0345694

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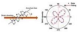

Directional selectivity of strain-enhanced second-harmonic generation in 2D ferroelectric SnS ✓

Jibo Zhang; Siwei Luo; Gencai Guo; Xixi Huang; Qiao Wang; Wei Chen; Xiang Qi; Jianxin Zhong

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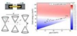

Uniaxial strain-induced spin zero effect in $ZrTe_5$ ✓

Peipei Wang; Xinmin Wang; Lingxiao Zhao; Ziyue Qi; Alei Li; Long Cheng; Ziheng Sun; Chengying Liu; Hongming Weng; Xi Dai; Quansheng Wu; Liyuan Zhang

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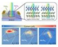
ELECTRONICS AND OPTOELECTRONICS



Electric-field-induced band reconstruction enables polarity-switchable and spatially programmable photoresponse in $PdSe_2$/2H-$MoTe_2$ van der Waals heterojunction F ✓

Yongsi Liu; Shuo Liu; Ruiying Ma; Le Yuan; Bingkun Wang; Xinyun Zhou; Mianzeng Zhong

Appl. Phys. Lett. 129, 083301 (2026) https://doi.org/10.1063/5.0350955

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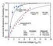

AlInAsSb/InGaAs single-photon avalanche diodes with high avalanche breakdown probability ✓

Kubra Circir; Daniel Herrera; Jiayi Shao; Everett D. Fraser; Paul R. Pinsukanjana; Joe C. Campbell

Appl. Phys. Lett. 129, 083302 (2026) https://doi.org/10.1063/5.0343916

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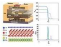
DEVICE PHYSICS



Dielectric encapsulation strategy for monolithically stacked MoS_2/WSe_2 complementary FETs with enhanced threshold voltage control ✓

Weichen Xiao; Haoyue Guo; Tian Tan; Yida Li; Xuewei Feng

Appl. Phys. Lett. 129, 083501 (2026) https://doi.org/10.1063/5.0339765

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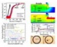

1 kV/2.7 MV/cm GaN quasi-vertical Schottky barrier diode with self-aligned mesa-field plate composite termination ✓

Xuan Huang; Lin-An Yang; Yi-Tong Yang; Peng Liu; Dong-Liang Chen; Ze-Yu Yang; Xiao-Hua Ma; Yue Hao

Appl. Phys. Lett. 129, 083502 (2026) https://doi.org/10.1063/5.0344827

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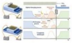

Chargeable photoconductivity mechanism in WS_2/Q2DEG heterojunctions on $SrTiO_3$ surface ✓

Yi Niu; Fan Li; Yiyang Gu; Di Wu; Jing Pang; Yu Fang; Yucheng Jiang; Run Zhao

Appl. Phys. Lett. 129, 083503 (2026) https://doi.org/10.1063/5.0344662

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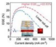

Guanidine-induced bulk passivation and retarded crystallization enable high-efficiency deep-red $CsPbI_3$ perovskite light-emitting diodes ✓

Zhennan Tian; Haifeng Zhao; Qiao Luo; Jun Wu; Yong Yang; Zexi Chen; Xuehang Chen; Lei Yang; Chunyang Yin; Ding Zheng; Junsheng Yu

Appl. Phys. Lett. 129, 083504 (2026) https://doi.org/10.1063/5.0349167

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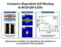

Geometry-dependent self-heating and wall-plug efficiency degradation in RGB quantum dot LEDs probed by thermoreflectance microscopy ✓

Yongjin Shin; Min Seok Kim; JaeMin Lee; Daehong Kim; Jaekyun Kim; Seong-Yong Cho; SangHoon Shin; Younghyun Kim

Appl. Phys. Lett. 129, 083505 (2026) https://doi.org/10.1063/5.0346181

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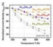

Assessment of AlGaN channel high-electron mobility transistors on silicon for high-temperature power electronics ✓

In Special Collection: Frontiers in Nitride Semiconductors Research

Julien Bassaler; Jash Mehta; Stéphanie Rennesson; Fabrice Semond; Sylvie Contreras; Julien Pernot; Yvon Cordier; Farid Medjdoub; Philippe Ferrandis

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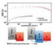

Te-alloyed ZnTeSe quantum-dot interlayer enables high-efficiency all-inorganic InP QLEDs ✓

Qiuyan Li; Sheng Cao; Yusheng Song; Yuhe Bi; Yi Liang; Huasong Liang; Huahao Wu; Jialong Zhao; Bingsuo Zou

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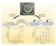
BIOIMAGING, BIOSENSORS, AND MEDICAL PHYSICS



Piezoelectric response of lysozyme-PVA composite films for flexible and biocompatible applications ✓

Ruhaan Mukherjee; Subhajit Mahapatra; Prithwiraj Majhi; Chumki Nayak; Achintya Singha

Appl. Phys. Lett. 129, 083701 (2026) https://doi.org/10.1063/5.0339246

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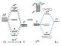
ENERGY CONVERSION AND STORAGE



Three-electron bond revealed by antibonding orbital descriptor for Li adsorption on Ti_2NT_2 MXenes ✓

Meng Tian; Pengfei Gao

Appl. Phys. Lett. 129, 083901 (2026) https://doi.org/10.1063/5.0348691

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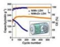

A self-accelerating hydroxide nanoarray cathode for fast-charging Ni–Zn batteries EP ✓

Ziheng Wang; Lixin Chen; Zengtian Li; Zhangyi Tao; Wenjun Shi; Jiahui Shan; Xinyu Ding; Ming Ge; Xiaolei Yuan; Zhao Cai

Appl. Phys. Lett. 129, 083902 (2026) https://doi.org/10.1063/5.0343095

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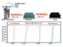

In situ-generated metallic nickel from hydrothermal-nitridation as an efficient platform for small-molecule electrooxidation ✓

Obeylaw Moyo; Zhiwei Wei; Jiaqiao Yang; Jie Yu; Mujia Sun; Jiqiang Ding; Junxiong Zhang; Hainan Sun

Appl. Phys. Lett. 129, 083903 (2026) https://doi.org/10.1063/5.0352817

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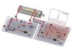
QUANTUM PHYSICS AND TECHNOLOGY



Miniature optically pumped cesium beam atomic clock with two-laser pumping EP ✓

Yihang He; Xuan He; Yanhui Wang; Xianghui Qi; Qing Wang

Appl. Phys. Lett. 129, 084001 (2026) https://doi.org/10.1063/5.0340489

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Before
After

Frequency control of superconducting resonators using integrated interferometers ✓

I. E. Tarasova; S. V. Egorov; I. A. Nazhestkin; S. V. Bakurskiy; A. S. Ionin; N. G. Ismailov; V. V. Ryazanov; N. V. Klenov; I. I. Soloviev; D. S. Yakovlev

Appl. Phys. Lett. 129, 084002 (2026) https://doi.org/10.1063/5.0329256

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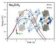

Exploring electronic and ionic transport properties of promising electrolyte Na_2ZnS_2 for all-solid-state sodium-ion battery ✓

Tae-Il Ri; Song-Bok Ri; Suk-Gyong Hwang; Jin-Song Kim; Song-Hyok Choe; Chol-Jun Yu

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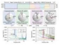

In situ decoupling of pump-induced spin polarization noise in atomic spin sensors ✓

Dinghui Gong; Xiaofei Huang; Di Gong; Yang Rui; Chang Liu; Xing Heng; Kai Wei; Wei Quan

Appl. Phys. Lett. 129, 084004 (2026) https://doi.org/10.1063/5.0347298

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Plug-and-play single photon sources using chip-integrated nanowire quantum dots 🔓

Edith Yeung; Mohd Zeeshan; David B. Northeast; John F. Weber; Philip J. Poole; Robin L. Williams; Dan Dalacu

Appl. Phys. Lett. 129, 084005 (2026) https://doi.org/10.1063/5.0348784

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EMERGING AND INTERDISCIPLINARY APPLIED PHYSICS

Frequency-domain harmonic fitting for robust pulse amplitude extraction in noisy Langmuir probe environment ✓

Zhian Hao; Chen Zhou; Chengxun Yuan; Ying Wang; Zhongxiang Zhou

Appl. Phys. Lett. 129, 084101 (2026) https://doi.org/10.1063/5.0344409

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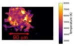

Shocked microparticles that produce sustained temperatures exceeding 5000 K within nanoseconds F ✓

Siva Kumar Valluri; Edward L. Dreizin; Lakshay Bansal; Dana D. Dlott

Appl. Phys. Lett. 129, 084102 (2026) https://doi.org/10.1063/5.0349459

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