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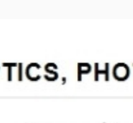
OPTICS, PHOTONICS, AND ELECTROMAGNETISM



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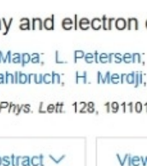

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Investigation on compositional pulling effect of InGaN red multiple quantum wells and its remedy

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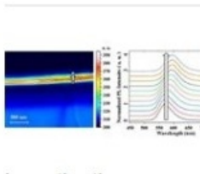

MnBi$_2$Te$_4$/3D-microstructure hybrid for THz detection

Wenzhe Wang; Zuoang Sun; Shouwa Liu; Jinhao Huang; Junbo Yang; Qi Song

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ZnO-based active integrated photonic devices for the ultraviolet band

Bingheng Meng; Xianfu Wang; Rui Chen; Longxing Su

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PHYSICS OF SURFACES AND INTERFACES

Ammonia source molecular beam epitaxy of ScAlN/GaN HEMTs with AlN exclusion layers

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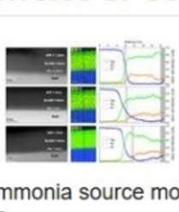

Thermal redistribution of valence-band holes and optical polarization in AlGaN (225–230 nm) far-UVC quantum wells on sapphire and IQE evaluation

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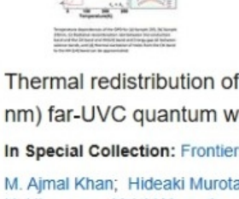
METASURFACES, METAMATERIALS, AND NANOTECHNOLOGY



A terahertz metasurface for efficient molecular fingerprint detection via frequency matching strategies

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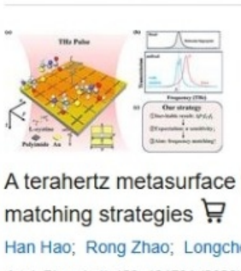
MATERIALS PHYSICS



Structure-defined molecular heat transport in a two-dimensional conjugated metal–organic framework

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Atomic-scale insight into GaAs-based heterostructures in vertical-cavity surface-emitting lasers

Li Tan; Chuyu Zhong; Victoria Cao; Suya Liu; Haijiao Bian; Yuan Wang; Qin Wu; Zhigang Yan; Hui Li; Wu Wang

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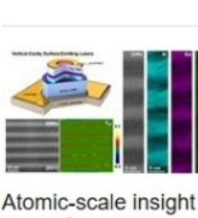

Origin of donor compensation in monoclinic (Al$_x$ Ga$_{1-x}$)$_2$O$_3$ alloys

Sierra Seacat; Hartwin Peelaers

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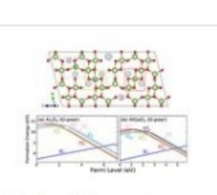

Doping-induced passivation of the Cu$_2$ZnSnS$_4$/MoS$_2$ back interfaces

Liangli Chu; Jian Guo; Linfeng Yu; Fanrong Lin; Zhuhua Zhang

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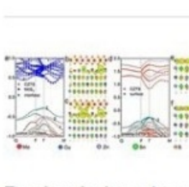

Thermophysical properties and atomic arrangement of liquid Zr$_{75-x}$Ni$_{25}$Al$_x$ glass-forming alloys investigated by electrostatic levitation experiments and molecular dynamics simulations

Y. J. Jin; D. L. Geng; Y. J. Zhang; B. Wei

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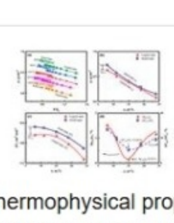

Electron localization in Janus structure enhances phonon thermal transport in M$_2$C (M = V, Nb, Ta) MXene

Tianfu Cao; Xiaoxia Wang; Donghai Wei; Bo Peng; Huimin Wang; Tao Ouyang; Guangzhao Qin

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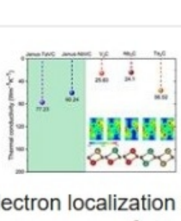

Twinnability in face-centered cubic metallic solids based on electronic band structure

Tetsuya Matsunaga; Eiichi Sato

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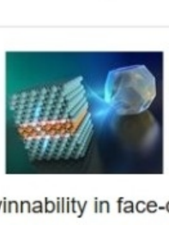

Anisotropy of lattice vibrations and optoelectronic properties in layered KGaS$_2$ single crystal

Jianan Li; Xue Chen; Canhui Pan; Kexin Chen; Junhao Huang; Xuanmao Xu; Jifei Wang; Weike Wang; Dongsheng Tang

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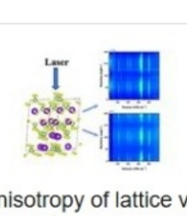

Enhanced resistive switching performance via air-stable FA$_3$Sb$_2$I$_9$ thin films for flexible and multilevel memory applications

Junjie Feng; Genquan Han; Yuchan Wang; Wei Hu; Qiang Huang; Siming Tian; Shuo Cao; Nan Zhang; Wenxia Zhang; Xiaosheng Tang

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PHYSICS OF SEMICONDUCTORS

Interplay between efficiency, spectral linewidth, and strain engineering of InGaN-based green LEDs grown on Si

Yujiao Luo; Jianxun Liu; Xiujian Sun; Yayu Dai; Xiaocui Lv; Xiaotian Ge; Qian Sun; Liangji Wang; Yun Ji; Hui Yang

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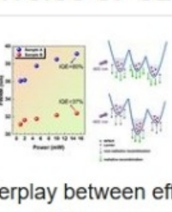

Mg-annealing process for realizing ohmic contact on p-type Al$_{0.6}$Ga$_{0.4}$N while recovering ultraviolet light absorption

Shun Lu; Kazuto Shibata; Maki Kushimoto; Manato Deki; Yoshio Honda; Hiroshi Amano

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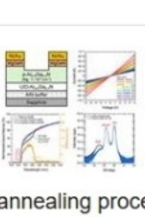

Observation and characterization of cusp catastrophe within a generic silicon-based DETF-type MEMS resonator

E. Uka; C. Zhao

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AlN/GaN/InGaN interface engineering for high-efficiency InGaN-based red quantum wells grown on Si

Chenshu Liu; Jianxun Liu; Xiujian Sun; Yayu Dai; Jie Wu; Qian Sun; Zhe Zhuang; Hui Yang

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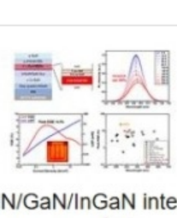

Electron spin relaxation via tunneling-activated Dresselhaus spin–orbit fields in semiconductor superlattices

Yuzo Ohno; Satoshi Iba

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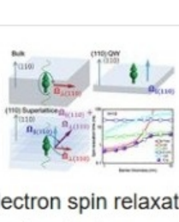

Study on the synergistic effect of electrical bias and proton irradiation on the electrical performance degradation of *β*-Ga$_2$O$_3$ Schottky barrier diodes

Shaozhong Yue; Huiping Zhu; Lei Shu; Jingyao Su; Tiexin Zhang; Siyuan Chen; Lei Wang; Xinyi Zhang; Jianhui Bu; Bo Li

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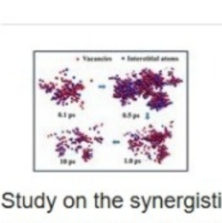

Low resistive GaN-based tunnel junctions grown at low temperatures in triple-junction LEDs

Satoshi Yamaguchi; Hinata Uda; Kazuki Osada; Tetsuya Takeuchi; Satoshi Kamiyama; Motoaki Iwaya; Takayuki Tanaka

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Distributed Bragg reflectors with porous GaN: Experimental assessment of effective medium approximations

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Frederik Lüßmann; Matthias Hoormann; Jana Hartmann; Florian Meierhofer; Andreas Waag

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Temperature-dependent carrier dynamics in red InGaN quantum wells revealed by cathodoluminescence

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Hira Usman; Zhaoxia Bi; Anders Gustafsson; Lars Samuelson

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PHONONIC, ACOUSTIC, AND THERMAL PROPERTIES

Fin LN
SiO₂
Si

FinLN: 3D fin lithium niobate acoustic resonators

Haorui Ni; Sunil A. Bhave

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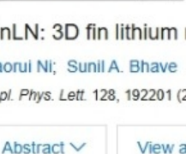

Bioinspired acoustic flow sensor for low-frequency underwater acoustic vector detection

Jianyang Hu; Bin Liu; Chen Chen; Gang Liu; Lei Wang; Yiqun Wang; Jie Lin; Peng Jin

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MAGNETISM AND SPINTRONICS

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Single-material anomalous Nernst heat-flux sensor enabled by heat-assisted magnetization reversal

Weinan Zhou; Hirofumi Suto; Yuya Sakuraba

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Orbital torque effect in Mo-based magnetic heterostructures

Wenbo Lv; Bo Zhang; Bin Kang; Yafan Wan; Shiqian Tao; Weitian Jiang; Fu Zheng; Xiaoxi Liu; Jiangwei Cao

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Field-free and efficient nanosecond spin–orbit torque switching in optimized WTe$_2$/Fe$_3$GaTe$_2$ heterostructures

Sicheng Zhou; Jiakai Yang; Guojing Hu; Zanhong Chen; Kewen Shi; Bingbing Tong; Junya Feng; Ziwei Dou; Zhaozheng Lyu; Xiaohui Song; Jie Shen; Haitao Yang; Hua Ke; Peiling Li; Guangtong Liu; Fanming Qu; Li Lu

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Ultrafast chirality reversal of magnetic vortices via perpendicular field pulses

Shichao Zhang; Weiwei Wang

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Practical design rules for easy-axis engineering in field-free in-plane SOT-MRAM cells

Haopeng Wang; Zhuangzhuang Ye; Lin Zhu; Kaiming Cai

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Polarization-resolved measurement of forward volume spin waves by micro-focused Brillouin light scattering

Krzysztof Szulc; Mengying Guo; Ondřej Wojewoda; Hongyu Wang; Dominik Pavelka; Jan Klíma; Jakub Krčma; Xiufeng Han; Qi Wang; Michal Urbánek

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LOW-DIMENSIONAL AND TOPOLOGICAL PHYSICS

Beyond MX$_2$: Transition metal chalcogenides discovered via selective random structure search

Jiexi Song; Diwei Shi; Fengyuan Xuan

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Floquet quantum anomalous Hall effect with a high Chern number in nonmagnetic K$_2$NaAs monolayer

Xiaohan Xie; Zequn Zhang; Yilin Zhang; Baibiao Huang; Ying Dai; Chengwang Niu

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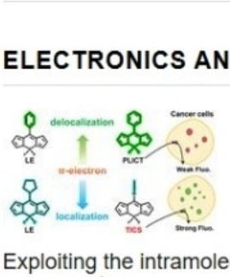
ELECTRONICS AND OPTOELECTRONICS



Exploiting the intramolecular charge transfer direction to amplify the BODIPY probe response

Xinze Liu; Peng Zhu; Minlin Guo; Qi Li; Guangxiong Hu; Lixia Zhu; Hang Yin; Ying Shi

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Microcavity VCSELs for cryogenic single-mode optical data link to achieve 28 fJ/bit at 136 Gbps

Zetai Liu; Derek Chaw; Haonan Wu; Yulin He; Milton Feng

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An optical displacement transducer with system-intrinsic linearity achieved by a laser diode

Can Fang; Yuxi Ruan; Yanguang Yu; Qinghua Guo; Haiping Du

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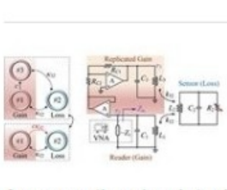

An exceptional-point wireless sensor featuring non-reciprocal and electronic-tunable coupling

Yushun Hao; Xuanhao Zhang; Pengde Wu; Gaofeng Wang; Yuhua Cheng

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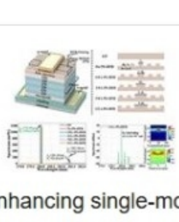

Enhancing single-mode stability and optical power of AlGaN-based DUV lasers by 1/4 λ phase-shifted surface DFB gratings

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Ganwei Zhou; Shunpeng Lu; Ruojia Zhang; Zhongxu Liu; Baofeng Yu; Ke Jiang; Shanli Zhang; ZiHui Zhang; Xiaojuan Sun; Dabing Li

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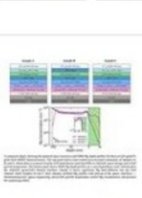

MOCVD growth of p-GaN-gated N-polar GaN HEMT heterostructures

Robert Hamwey; Tanmay Chavan; Boyu Wang; Stacia Keller; Umesh K. Mishra

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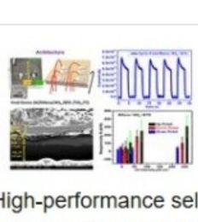

High-performance self-powered ferroelectric-assisted van der Waals MXene/WS$_2$/BaTiO$_3$/TiO$_2$ photodetectors

Rohit Raj Padhi; Guo-Hua Feng

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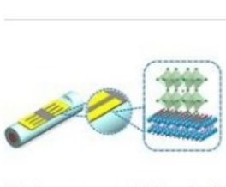

High-responsivity all-fiber self-powered photodetector based on Ti$_3$C$_2$T$_x$ MXene/FA$_{0.4}$MA$_{0.6}$PbI$_3$ heterojunction

Wangyang Nie; Yinping Miao; Xiaolan Li; Xuqi Wang; Yanxi Wang; Jianquan Yao

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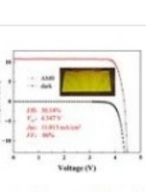

Preparation of flexible inverted metamorphic four-junction AlGaInP/AlGaAs/GaAs/In$_{0.16}$Ga$_{0.84}$As quantum well solar cells

Zhitao Chen; Wencong Yan; Xinyi Li; Junhua Long; Qiangjian Sun; Min Zhou; Xiaoxu Wu; Menglu Yu; Qing Gong; Erpeng Li; Wenhao Miao; Changwu Ge; Shulong Lu

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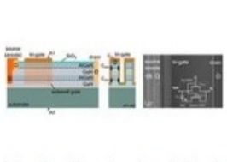

Vertically stacked double-channel tri-gate GaN HEMT and SBD with enhanced reverse conduction performance

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Hongkeng Zhu; Yuan Zong; Francesco Marcantoni; Hakan Cankat Gür; Elison Matioli

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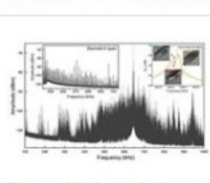
DEVICE PHYSICS



Ultra-wideband phononic frequency combs in AlScN-on-Si via Duffing-enhanced four-wave mixing

S. Mishra; J. Gao; B. Jabbari; S. Dabas; M. Hasan; S. Mondal; Z. Mi; H. Cho; R. Tabrizian

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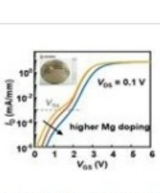

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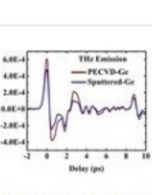

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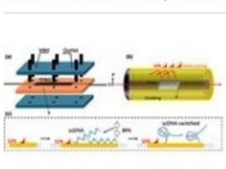

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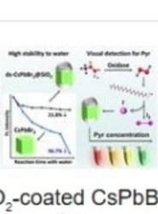

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Enhancement of transdermal drug delivery by using a Laval nozzle to intensify shock waves generated by pulsed discharge plasma

Hao Jiang; Qing Huang

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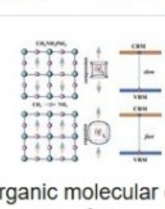

Organic molecular orientation enables intrinsic defect passivation in CH$_3$NH$_3$PbI$_3$ perovskite

Hui Liang; Zhuo-Yuan Zhang; Zhong-Yuan Wang; Xiang Ni; Chuan-Jia Tong

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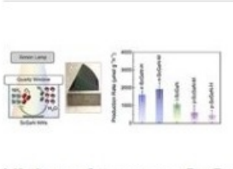

High-performance ScGaN nanowire photocatalysts for photochemical nitrogen fixation under ambient conditions

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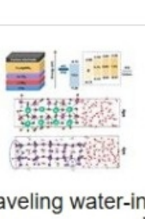

Unraveling water-induced degradation mechanisms in lead-free perovskites toward durable solar cells

Wei Liu; Diao Zhang; Xin Huang; Bohu Li; Wen Huang; Liang Chu; Xing'ao Li

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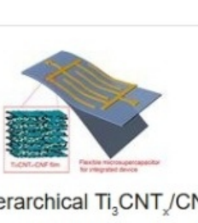

Hierarchical Ti$_3$CNT$_x$/CNF composite films with expanded interlayer spacing for high-performance flexible micro-supercapacitors

Chenggang Jia; Shulin Yang; Jiang Liu; Yubing Li; Tangming Mo; Haifu Huang; Zhiqun Tian; Shuaikai Xu

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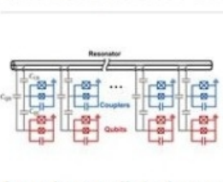

A cavity-mediated reconfigurable coupling scheme for superconducting qubits

Shinyoung Hwang; Sangyeon Lee; Eunjong Kim

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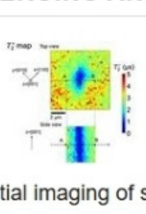

Spatial imaging of spin-dephasing time of nitrogen-vacancy centers around single dislocation in diamonds

T. Tsuji; S. Harada; T. Teraji

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Erratum: "Enhanced transport properties in GaN heterostructures with sputter-epitaxy-grown ScAlN barriers via thermal annealing" [Appl. Phys. Lett. **127**, 182103 (2025)] FREE

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Erratum: "Elimination of wing tilt laterally overgrown GaN" [Appl. Phys. Lett. **128**, 011903 (2026)] FREE

Jack Almeter; Seiji Mita; J. Houston Dycus; Ramón Collazo; Zlatko Sitar; Ronny Kirste

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