



MicroWriter 用户发表文章



1. 二维材料电学及光电器件(含测试结构)

年份	期刊	标题	影响因子 (IF)
2021	Advanced Electronic Materials	Charge Carrier Mobility in Organic Mixed Ionic-Electronic Conductors by the Electrolyte-Gated van der Pauw Method	7.295
2021	Science Advances	A comprehensive nano-interpenetrating semiconducting photoresist toward all-photolithography organic electronics	14.136
2021	Journal of Materials Chemistry C	Precursor polymorph determines the organic semiconductor structure formed upon annealing	7.393
2020	Advanced Functional Materials	Enhancing Long-Term Device Stability Using Thin Film Blends of Small Molecule Semiconductors and Insulating Polymers to Trap Surface-Induced Polymorphs	18.808
2020	Chemistry of Materials	Chemical Vapor Deposition-Grown Nonlayered α -MnTe Nanosheet for Photodetectors with Ultrahigh Responsivity and External Quantum Efficiency	9.811
2020	The Journal of the Society for Information Display	Polarisation independent liquid crystal lenses and contact lenses using embossed reactive mesogens	2.14
2020	Advanced Materials Technology	High-Throughput and Controllable Fabrication of Soft Screen Protectors with Microlens Arrays for Light Enhancement of OLED Displays	7.848
2020	Journal of Materials Chemistry C	Selection of the two enantiotropic polymorphs of diF-TES-ADT in solution sheared thin film transistors	7.393
2020	Scripta Materialia	Broadband photodetector based on vertically stage-liked MoS ₂ /Si heterostructure with ultra-high sensitivity and fast response speed	5.611
2020	Journal of Alloys and Compounds	Modulation on the electronic properties and band gap of layered ReSe ₂ via strain engineering	5.316
2019	Materials Science in Semiconductor Processing	Solution-sheared thin films of a donor-acceptor random copolymer/polystyrene blend as active material in field-effect transistors	3.927
2019	ACS Appl. Mater. Interfaces	High-performance WSe ₂ photodetector based on laser-induced p-n junction	9.229
2019	CCS Chemistry	1T'-MoTe ₂ -Based On-Chip Electrocatalytic Microdevice: A Platform to Unravel Oxidation Dependent Electrocatalysis	
2019	Nanotechnology	Wafer-scale transferred multilayer MoS ₂ for high performance field effect transistors	3.874
2019	Applied Optics	Fundus-simulating phantom for calibration of retinal vessel oximetry devices	1.98
2018	Nanotechnology	Grain Wall Boundaries in Centimeter-scale Continuous Monolayer WS ₂ Film Grown By Chemical Vapor Deposition	3.874
2018	Adv. Funct. Mater.	Self-Limited Epitaxial Growth of Ultrathin Nonlayered CdS Flakes for High-Performance Photodetectors	18.808
2017	ACS Appl. Mater. Interfaces	Ultrahigh-Gain and Fast Photodetectors Built on Atomically Thin Bilayer Tungsten Disulfide Grown by Chemical Vapor Deposition	9.229
2017	Adv. Funct. Mater.	SpaceConfined Chemical Vapor Deposition Synthesis of Ultrathin HfS ₂ Flakes for Optoelectronic Application	18.808
2017	J. Mater. Sci.	Improved photoresponse and stable photoswitching of tungsten disulfide single-layer phototransistor decorated with black phosphorus nanosheets.	4.22
2017	Nanoscale	Highly sensitive and fast monolayer WS ₂ phototransistors realized by SnS nanosheet decoration	7.79
2017	Physica E	Electro-photo modulation of the fermi level in WSe ₂ /graphene van der Waals heterojunction	3.382
2017	Adv. Optical Mater	Broadband High-Responsivity Photodetectors Based on Large-Scale Topological Crystalline Insulator SnTe Ultrathin Film Grown by Molecular Beam Epitaxy	9.926
2016	ACS Appl. Mater. Interfaces	Enhanced photoresponse of SnSe nanocrystals decorated WS ₂ monolayer phototransistor	9.229

2. 二维材料磁学器件(含测试结构)

年份	期刊	标题	影响因子 (IF)
2021	Cell Reports Physical Science	Precisely and continuously tunable, intrinsic, infinitely soluble alloy ferromagnetism in layered and quasi-layered CrVTe crystals	
2021	Advanced Electronic Materials	Charge Carrier Mobility in Organic Mixed Ionic-Electronic Conductors by the Electrolyte-Gated van der Pauw Method	
2020	Adv. Quantum Technol.	Optically Induced Phase Change for Magnetoresistance Modulation	
2019		Phase Change Control of Interlayer Exchange Coupling	
2018		Phase-transition induced magnetism modulation and logic implementation in NiFe/VO ₂ heterostructure	
2017	APL Photonics	Robust nano-fabrication of an integrated platform for spin control in a tunable microcavity	4.383

3. 半导体(如硅基及其他宽禁带半导体)器件

年份	期刊	标题	影响因子 (IF)
2020	Adv. Electron. Mater	Realizing Wafer-Scale and Low-Voltage Operation MoS ₂ Transistors via Electrolyte Gating	7.295
2019	Adv. Optical Mater	Strategies for Air - Stable and Tunable Monolayer MoS ₂ - Based Hybrid Photodetectors with High Performance by Regulating the Fully Inorganic Trihalide Perovskite Nanocrystals	9.926
2019	J. Mater. Chem. C	Monolayer MoSe ₂ /NiO van der Waals heterostructures for infrared light-emitting diodes	7.393

2019	Scripta Materialia	Broadband photodetector based on vertically stage-liked MoS ₂ /Si heterostructure with ultra-high sensitivity and fast response speed	5.611
2019	Phys. Status Solidi RRL	Poly-GeSn Junctionless Thin-Film Transistors on Insulators Fabricated at Low Temperatures via Pulsed Laser Annealing	2.821
2011	Journal of Micromechanics and Microengineering	Fabrication of three-dimensional silicon structure with smooth curved surfaces	1.881

4. 光学及光子学微纳结构或器件

年份	期刊	标题	影响因子 (IF)
2021	Biomedical Optics Express	Dual-view light-sheet imaging through a tilted glass interface using a deformable mirror	3.732
2021	Optics Communications	Applicability of the soft and hard apodization techniques to suppress Bessel beam intensity oscillations	2.31
2021	2021 IEEE International Conference on Computational Photography (ICCP)	Depth from Defocus with Learned Optics for Imaging and Occlusion-aware Depth Estimation	
2021	ACS Applied Materials & Interfaces	Design of Multimodal Absorption in the Mid-IR: A Metal Dielectric Metal Approach	9.229
2021	Physica E: Low-dimensional Systems and Nanostructures	A simple band model for ultraviolet induced ambipolarity in single SnO ₂ nanowire devices	3.382
2020	Nano Energy	Yb/Er coordinatively doping in bilayer WSe ₂ for fascinating up-conversion luminescence	17.881
2019	Nature Communications	Two-dimensional inorganic molecular crystals	14.919
2019	ACS Appl. Mater. Interfaces	Polarization-Controllable Plasmonic Enhancement on the Optical Response of Two-Dimensional GaSe Layers	9.229
2015	Optical Engineering	Fabrication of a chirped artificial compound eye for endoscopic imaging fiber bundle by dose-modulated laser lithography and subsequent thermal reflow	1.084

5. 微纳机电

年份	期刊	标题	影响因子 (IF)
2020	Nature Communications	Edge-driven nanomembrane-based vertical organic transistors showing a multi-sensing capability	14.919
2020	Journal of Integrated Circuits and Systems	Metallization of High Purity Al ₂ O ₃ Substrate with Autocatalytic NiP Thin Films for Au Interconnections in MCM packaging technology	
2020	2020 IEEE 33rd International Conference on Microelectronic Test Structures (ICMETS)	Automated Generation, Fabrication and Measurement of Parametric Test Structures for Rapid Prototyping Using Optical Maskless Lithography	

6. 微纳流控

年份	期刊	标题	影响因子 (IF)
2021	Journal of The Electrochemical Society	Rapid and Label-Free Electrochemical Detection of Fumonisin-B1 Using Microfluidic Biosensing Platform Based on Ag-CeO ₂ Nanocomposite	4.316
2021	Analytical Chemistry	Rapid, Simple, and Inexpensive Spatial Patterning of Wettability in Microfluidic Devices for Double Emulsion Generation	6.986
2021	ACS Applied Materials & Interfaces	Silicon Microchannel-Driven Raman Scattering Enhancement to Improve Gold Nanorod Functions as a SERS Substrate toward Single-Molecule Detection	9.229
2021	Analytical Chemistry	Microfluidics-Coupled Radioluminescence Microscopy for In Vitro Radiotracer Kinetic Studies	6.986
2020	Nature Communications	Modular microfluidics enables kinetic insight from time-resolved cryo-EM	14.919
2020	ASME 2020 15th International Manufacturing Science and Engineering Conference	Fabrication of a Graded Micropillar Surface for Guided Cell Migration	
2020	Scientific Reports	Miniaturized magnetic stir bars for controlled agitation of aqueous microdroplets	4.379
2020	Scientific Reports	On-chip protein separation with single-molecule resolution	4.379
2020	Analytical Chemistry	Separation and Enrichment of Yeast <i>Saccharomyces cerevisiae</i> by Shape Using Viscoelastic Microfluidics	6.986
2020	Biomedical Engineering and Computational Biology	ZnO Nanowire-Anchored Microfluidic Device With Herringbone Structure Fabricated by Maskless Photolithography	

6. 其他

年份	期刊	标题	影响因子 (IF)
2021	ACS Nano	Fast and Deterministic Fabrication of Sub-5 Nanometer Solid-State Pores by Feedback-Controlled Laser Processing	15.881
2021	Laser & Photonics Reviews	Chip-Scale Terahertz Frequency Combs through Integrated Intersubband Polariton Bleaching	13.138
2021	Nature Communications	An in-memory computing architecture based on two-dimensional semiconductors for multiply-accumulate operations	14.919
2020	ACS Applied Nano Materials	Structural and Electronic Transport Properties of Fluorographene Directly Grown on Silicates for Possible Biosensor Applications	5.097
2020	Nature Communications	Quantum effect-based flexible and transparent pressure sensors with ultrahigh sensitivity and sensing density	14.919
2020	Nanotechnology	Magnetic assembled 3D SERS substrate for sensitive detection of pesticide residue in soil	3.874
2020	Nanoscale	Remarkable quality improvement of as-grown monolayer MoS ₂ by sulfur vapor pretreatment of SiO ₂ /Si substrate	7.79
2019	Advanced Functional Materials	Automated, Ultra-Fast Laser-Drilling of Nanometer Scale Pores and Nanopore Arrays in Aqueous Solutions	18.808
2018	ACS Nano	Single-Molecule Discrimination of Labeled DNAs and Polypeptides Using Photoluminescent-Free TiO ₂ Nanopores	15.881



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Quantum Design China

北京市朝阳区酒仙桥路 10 号
恒通商务园 B22 座 501 室 100015
电话: 86-10-85120277/78/79/80
传真: 86-10-85120276

www.qd-china.com

上海市静安区威海路 511 号
上海国际集团大厦 1405 室 200041
电话: 86-21-52280980
传真: 86-21-52282156

info@qd-china.com

广州市番禺区汉溪大道东 290 号
保利大都汇 A3 栋 1509 室 511495
电话: 86-20-89202739
传真: 86-20-89202750