Xiaofeng Gu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1580815/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Fourfold Polarization‧ensitive Photodetector Based on GaTe/MoS ₂ van der Waals Heterojunction. Advanced Electronic Materials, 2022, 8, 2100673.	2.6	21
2	Status and prospects of Ohmic contacts on two-dimensional semiconductors. Nanotechnology, 2022, 33, 062005.	1.3	5
3	High-densities of free holes in homoepitaxial n-GaN induced by fluorine-plasma ion implantation. Solid-State Electronics, 2022, 189, 108226.	0.8	1
4	Lithography-free and high-efficiency preparation of black phosphorous devices by direct evaporation through shadow mask. Nanotechnology, 2022, 33, 225201.	1.3	1
5	A Novel DTSCR With Embedded MOS and Island Diodes for ESD Protection of High-Speed ICs. IEEE Transactions on Device and Materials Reliability, 2022, 22, 306-311.	1.5	6
6	Inkjet-printed TMDC–graphene heterostructures for flexible and broadband photodetectors. Journal of Applied Physics, 2022, 131, .	1.1	3
7	Effect of the surface oxide layer on the stability of black phosphorus. Applied Surface Science, 2021, 537, 147850.	3.1	21
8	Controllable synthesis of SnS ₂ flakes and MoS ₂ /SnS ₂ heterostructures by confined-space chemical vapor deposition. CrystEngComm, 2021, 23, 2563-2571.	1.3	8
9	In Situ Ultrafast and Patterned Growth of Transition Metal Dichalcogenides from Inkjetâ€Printed Aqueous Precursors. Advanced Materials, 2021, 33, e2100260.	11.1	36
10	Controllable Epitaxial Growth of Largeâ€Area MoS ₂ /WS ₂ Vertical Heterostructures by Confinedâ€6pace Chemical Vapor Deposition. Small, 2021, 17, e2007312.	5.2	37
11	Highly crystalline Mo1-xRexS2 monolayers by NaCl-assisted and space-confined chemical vapor deposition. Thin Solid Films, 2021, 722, 138576.	0.8	2
12	Large-scale MoS _{2(1â^'x)} Se _{2x} monolayers synthesized by confined-space CVD. Nanotechnology, 2021, 32, 355601.	1.3	6
13	Multiâ€band bandpass filter based on directâ€connected Tâ€shaped stubâ€loaded resonator. Microwave and Optical Technology Letters, 2021, 63, 2715-2722.	0.9	0
14	A centrosymmetricâ€coupled triâ€band bandpass filter constituted by loaded bar and embedded Sâ€shaped resonator. Microwave and Optical Technology Letters, 2021, 63, 2732-2739.	0.9	1
15	Controllable synthesis of WS2(1-x)Se2x monolayers with fast photoresponse by a facile chemical vapor deposition strategy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 269, 115176.	1.7	12
16	A Dual-MOS-Triggered Silicon-Controlled Rectifier for High-Voltage ESD Protection. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6293-6299.	3.7	5
17	Accurate determination of the peak channel temperature by an electrical method combined with EL mapping technique in In0.17Al0.83N/GaN HEMTs. Microelectronics Reliability, 2021, 127, 114382.	0.9	1
18	Bidirectional doping of two-dimensional thin-layer transition metal dichalcogenides using soft ammonia plasma. Nanoscale, 2021, 13, 15278-15284.	2.8	5

#	Article	IF	CITATIONS
19	An energyâ€efficient switching scheme based on distributing most significant bit capacitors for successive approximation register analogâ€toâ€digital converter. International Journal of Circuit Theory and Applications, 2021, 49, 820-829.	1.3	3
20	High performance IGZO-based phototransistors by BN/BP interface engineering. Nanotechnology, 2021, 32, 025201.	1.3	2
21	Synthesis and Characterization of Metallic Janus MoSH Monolayer. ACS Nano, 2021, 15, 20319-20331.	7.3	47
22	Controllable Synthesis of Crystalline ReS _{2(1â^'} <i>_x</i> ₎ Se ₂ <i>_x</i> on Amorphous SiO ₂ /Si Substrates with Fast Photoresponse. Advanced Optical Materials, 2020, 8, 1901415.	3.6	23
23	2D atomic crystal molecular superlattices by soft plasma intercalation. Nature Communications, 2020, 11, 5960.	5.8	36
24	Design of a cascade-MOS-triggered SCR with high holding-voltage for high-voltage ESD protection. Solid-State Electronics, 2020, 171, 107861.	0.8	3
25	Humidity Stability of All-Sputtered Metal-Oxide Electric-Double-Layer Transistors. IEEE Transactions on Electron Devices, 2020, 67, 5532-5536.	1.6	9
26	Study on the improvement of p-type multi-crystalline silicon material for solar cells by the hydrogenation with electron injection. Bulletin of Materials Science, 2020, 43, 1.	0.8	2
27	Charge Transport in Vertical GaN Schottky Barrier Diodes: A Refined Physical Model for Conductive Dislocations. IEEE Transactions on Electron Devices, 2020, 67, 841-846.	1.6	21
28	Design of a Dual-directional Diode-triggered SCR for Low Voltage ESD Protection. IEEJ Transactions on Electronics, Information and Systems, 2020, 140, 673-674.	0.1	0
29	Enhanced photoresponsivity of InSe photodetector by molecular doping. Applied Physics Express, 2020, 13, 111005.	1.1	1
30	Recent advances in plasma modification of 2D transition metal dichalcogenides. Nanoscale, 2019, 11, 19202-19213.	2.8	73
31	Compact and low-loss diplexer design and fabrication for WLAN/WiMAX application. Journal of Electromagnetic Waves and Applications, 2019, 33, 2257-2265.	1.0	0
32	Two-Dimensional Alloying Molybdenum Tin Disulfide Monolayers with Fast Photoresponse. ACS Applied Materials & Interfaces, 2019, 11, 39077-39087.	4.0	28
33	Effect of thermal conductivity of substrate on laserâ€induced phase transition of MoTe ₂ . Journal of Raman Spectroscopy, 2019, 50, 755-761.	1.2	17
34	Transition metal dichalcogenides bilayer single crystals by reverse-flow chemical vapor epitaxy. Nature Communications, 2019, 10, 598.	5.8	124
35	Design of a Gate Diode Triggered SCR for Dual-Direction High-Voltage ESD Protection. IEEE Electron Device Letters, 2019, 40, 163-166.	2.2	31
36	Optical studies of the thermal stability of InSe nanosheets. Applied Surface Science, 2019, 467-468, 860-867.	3.1	6

#	Article	IF	CITATIONS
37	Soft hydrogen plasma induced phase transition in monolayer and few-layer MoTe ₂ . Nanotechnology, 2019, 30, 034004.	1.3	29
38	Collaborative model with adaptive selection scheme for visual tracking. International Journal of Machine Learning and Cybernetics, 2019, 10, 215-228.	2.3	5
39	Enhanced efficiency in bifacial HIT solar cells by gradient doping with AFORS-HET simulation. Materials Science in Semiconductor Processing, 2018, 77, 16-23.	1.9	22
40	Review of status developments of high-efficiency crystalline silicon solar cells. Journal Physics D: Applied Physics, 2018, 51, 123001.	1.3	112
41	Temperature-Dependent Efficiency Droop in GaN-Based Blue LEDs. IEEE Electron Device Letters, 2018, 39, 528-531.	2.2	23
42	Layer-controllable graphene by plasma thinning and post-annealing. Applied Surface Science, 2018, 441, 639-646.	3.1	21
43	A multistandard and resource-efficient Viterbi decoder for a multimode communication system. Frontiers of Information Technology and Electronic Engineering, 2018, 19, 536-543.	1.5	1
44	The effect of graphene on surface plasmon resonance of metal nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 25078-25084.	1.3	29
45	Controllable one-step growth of bilayer MoS ₂ –WS ₂ /WS ₂ heterostructures by chemical vapor deposition. Nanotechnology, 2018, 29, 455707.	1.3	26
46	Robust Fabrication of Quantum Dots on Few‣ayer MoS ₂ by Soft Hydrogen Plasma and Postâ€Annealing. Particle and Particle Systems Characterization, 2018, 35, 1800060.	1.2	3
47	Producing air-stable InSe nanosheet through mild oxygen plasma treatment. Semiconductor Science and Technology, 2018, 33, 074002.	1.0	24
48	Large-size Mo1-xWxS2 and W1-xMoxS2 (x = 0–0.5) monolayers by confined-space chemical vapor deposition. Applied Surface Science, 2018, 457, 591-597.	3.1	17
49	Physical model of conductive dislocations in GaN Schottky diodes. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 177202.	0.2	4
50	A Comprehensive Study of Reverse Current Degradation Mechanisms in Au/Ni/n-GaN Schottky Diodes. IEEE Transactions on Electron Devices, 2017, 64, 407-411.	1.6	13
51	Simulation optimizing of <i>n</i> -type HIT solar cells with AFORS-HET. Modern Physics Letters B, 2017, 31, 1740025.	1.0	1
52	GaN-based Schottky barrier ultraviolet photodetectors with graded doping on patterned sapphire substrates. Solid-State Electronics, 2017, 133, 78-82.	0.8	32
53	Layer-by-layer thinning of MoSe 2 by soft and reactive plasma etching. Applied Surface Science, 2017, 411, 182-188.	3.1	38
54	Starch as ion-based gate dielectric for oxide thin film transistors. Organic Electronics, 2017, 45, 203-208.	1.4	16

#	Article	IF	CITATIONS
55	Progressive current degradation and breakdown behavior in GaN LEDs under high reverse bias stress. Chinese Physics B, 2017, 26, 087308.	0.7	1
56	Modification of SiO2 thickness distribution through evaporation. Thin Solid Films, 2017, 642, 31-35.	0.8	0
57	Shape-Uniform, High-Quality Monolayered MoS ₂ Crystals for Gate-Tunable Photoluminescence. ACS Applied Materials & Interfaces, 2017, 9, 42121-42130.	4.0	51
58	Tunneling-Hopping Transport Model for Reverse Leakage Current in InGaN/GaN Blue Light-Emitting Diodes. IEEE Photonics Technology Letters, 2017, 29, 1447-1450.	1.3	14
59	Atomic-layer soft plasma etching of MoS2. Scientific Reports, 2016, 6, 19945.	1.6	93
60	Investigation on LDMOS-SCR with high holding current for high voltage ESD protection. Microelectronics Reliability, 2016, 61, 120-124.	0.9	5
61	Design and optimization of LDMOS-SCR devices with improved ESD protection performance. Microelectronics Reliability, 2016, 61, 115-119.	0.9	5
62	Hot electrons induced degradation in lattice-matched InAlN/GaN high electron mobility transistors. Microelectronics Reliability, 2016, 56, 34-36.	0.9	5
63	Comparison of electrical characteristics between AlGaN/GaN and lattice-matched InAlN/GaN heterostructure Schottky barrier diodes. Microelectronics Reliability, 2016, 61, 82-86.	0.9	9
64	Highly textured conductive and transparent ZnO films for HIT solar cell applications. Journal Physics D: Applied Physics, 2015, 48, 305105.	1.3	13
65	Current transport mechanisms in lattice-matched Pt/Au-InAlN/GaN Schottky diodes. Journal of Applied Physics, 2015, 117, .	1.1	16
66	Chemically active plasmas for surface passivation of Si photovoltaics. Catalysis Today, 2015, 252, 201-210.	2.2	4
67	Fabrication and Characterization of a Single Electron Transistor Based on a Silicon-on-Insulator. Chinese Physics Letters, 2015, 32, 047301.	1.3	4
68	RC-Embedded LDMOS-SCR With High Holding Current for High-Voltage I/O ESD Protection. IEEE Transactions on Device and Materials Reliability, 2015, 15, 495-499.	1.5	26
69	Surface Acceptor-Like Trap Model for Gate Leakage Current Degradation in Lattice-Matched InAlN/GaN HEMTs. IEEE Electron Device Letters, 2015, 36, 1281-1283.	2.2	7
70	Hyperplane distance neighbor clustering based on local discriminant analysis for complex chemical processes monitoring. Korean Journal of Chemical Engineering, 2014, 31, 1943-1953.	1.2	2
71	Key factors affecting trigger voltage of SCRS for ESD protection. , 2014, , .		0
72	Batch bioprocess monitoring using multiway localized discriminant embedding approach. , 2014, , .		0

#	Article	IF	CITATIONS
73	A modified LDMOS device with improved ESD protection performance. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 700-702.	0.8	2
74	Laser-induced breakdown spectroscopy application in environmental monitoring of water quality: a review. Environmental Monitoring and Assessment, 2014, 186, 8969-8980.	1.3	73
75	Drain current model of double-gate MOSFETs considering both electrons and holes. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 262-266.	0.8	1
76	Current and light emission efficiency behaviors in GaN-based LEDS. , 2014, , .		0
77	Luminescence characteristics and growth mechanism of awl-like ZnO Nanostructures fabricated on Ni-coated silicon substrate via chemical vapor deposition method. Ceramics International, 2014, 40, 12293-12298.	2.3	8
78	Packaging and testing of multi-wavelength DFB laser array using REC technology. Optics Communications, 2014, 312, 123-126.	1.0	2
79	Synthesis and cathodoluminescence characteristics of caltrop-like ZnO nanostructures. Superlattices and Microstructures, 2014, 72, 83-90.	1.4	2
80	The Direct Synthesis of Graphene on a Gallium Nitride Substrate. Chemical Vapor Deposition, 2014, 20, 125-129.	1.4	10
81	Structural and cathodoluminescence properties of stalactite-like ZnO nanorods fabricated with assistance of Ni–Zn alloy catalyst. Materials Letters, 2014, 135, 119-122.	1.3	1
82	An Intelligent System for Lung Cancer Diagnosis Using a New Genetic Algorithm Based Feature Selection Method. Journal of Medical Systems, 2014, 38, 97.	2.2	39
83	Synthesis and optical properties of pencil-like and shuttle-like ZnO microrods. Applied Physics A: Materials Science and Processing, 2014, 116, 1173-1179.	1.1	1
84	An investigation on capacitance-trigger ESD protection devices for high voltage integrated circuits. Microelectronics Reliability, 2014, 54, 1169-1172.	0.9	4
85	Improving fuzzy Câ€means clustering algorithm based on a densityâ€induced distance measure. Journal of Engineering, 2014, 2014, 137-139.	0.6	5
86	A five-item MSLD windowed triple-spectrum-line interpolated FFT algorithm for measuring SFDR. , 2014, , ,		0
87	GaN-based p–i–n ultraviolet photodetectors with a thin p-type GaN layer on patterned sapphire substrates. Chinese Optics Letters, 2014, 12, 092301-92304.	1.3	6
88	Fabrication and photoluminescence of caltrop-like ZnO nanostructures on silicon substrate. Materials Letters, 2013, 112, 133-135.	1.3	2
89	Influence of filler waviness and aspect ratio on the percolation threshold of carbon nanomaterials reinforced polymer nanocomposites. Journal of Materials Science, 2013, 48, 5727-5732.	1.7	22
90	Multi-target indoor localization and tracking on video monitoring system in a wireless sensor network. Journal of Network and Computer Applications, 2013, 36, 228-234.	5.8	20

#	Article	IF	CITATIONS
91	Piezoresponse Force Microscopy Study of Ferroelectric BaTiO ₃ Thin Film Directly Deposited on Si(001) by Magnetron Sputtering. Journal of Nano Research, 2013, 22, 23-30.	0.8	1
92	Forward current transport mechanisms in Ni/Au-AlGaN/GaN Schottky diodes. Journal of Applied Physics, 2013, 114, .	1.1	48
93	Analytical I-V model and numerical analysis of single electron transistor. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 077301.	0.2	1
94	Capacitance characteristics of atomic layer deposited Al2O3/n-GaN MOS structure. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 197203.	0.2	0
95	Degradation mechanism of leakage current in AlGaN/GaN high electron mobility transistors. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 157202.	0.2	2
96	A Continuous Regional Current-Voltage Model for Short-channel Double-gate MOSFETs. Journal of Semiconductor Technology and Science, 2013, 13, 237-244.	0.1	1
97	Forward Current Transport Mechanism and Schottky Barrier Characteristics of a Ni/Au Contact on n-GaN. Chinese Physics Letters, 2012, 29, 087204.	1.3	6
98	Localisation algorithm for large-scale and low-density wireless sensor networks. Electronics Letters, 2011, 47, 881.	0.5	13
99	Software Design and Implementation for Obtaining ZigBee Network Structure Information. , 2011, , .		0
100	Design and analysis of centralized wireless positioning system based on ZigBee. , 2011, , .		0
101	Limitation of the Johnson-Mehl-Avrami equation for the kinetic analysis of crystallization in a Ti-based amorphous alloy. International Journal of Minerals, Metallurgy and Materials, 2010, 17, 307-311.	2.4	4
102	Microstructure Changes in Zr-Based Metallic Glass Induced by Ion Milling. Rare Metal Materials and Engineering, 2010, 39, 1693-1696.	0.8	4
103	On discussion of the applicability of local Avrami exponent: Errors and solutions. Materials Letters, 2009, 63, 1153-1155.	1.3	20
104	An integral fitting method for analyzing the isochronal transformation kinetics: Application to the crystallization of a Ti-based amorphous alloy. Journal of Physics and Chemistry of Solids, 2009, 70, 1448-1453.	1.9	16
105	Effects of alloy addition on the improvement of glass forming ability and plasticity of Mg–Cu–Tb bulk metallic glass. Intermetallics, 2009, 17, 253-255.	1.8	21
106	Effect of the kinetic model on parameter distortions in non-isothermal transformations. Journal of Alloys and Compounds, 2009, 479, L22-L25.	2.8	2
107	Determination of kinetic parameters during isochronal crystallization of Ti40Zr25Ni8Cu9Be18 metallic glass. Journal of Alloys and Compounds, 2009, 479, 835-839.	2.8	20
108	Effects of Zn addition on the improvement of glass forming ability and plasticity of Mg–Cu–Tb bulk metallic glasses. Journal of Non-Crystalline Solids, 2008, 354, 5368-5371.	1.5	9

#	Article	lF	CITATIONS
109	Effects of 5%Ni addition on thermal stability and crystallization behavior of Mg65Cu25Tb10 bulk metallic glass. Transactions of Nonferrous Metals Society of China, 2008, 18, 1107-1111.	1.7	1
110	Low-density Mg-rich metallic glasses with bending ductility. Scripta Materialia, 2007, 56, 689-692.	2.6	21
111	Mg–Ca–Zn Bulk Metallic Glasses with High Strength and Significant Ductility. Journal of Materials Research, 2005, 20, 1935-1938.	1.2	132
112	Crystallization and mechanical behavior of (Hf, Zr)–Ti–Cu–Ni–Al metallic glasses. Journal of Non-Crystalline Solids, 2003, 317, 112-117.	1.5	46
113	Using Fluctuation Microscopy to Characterize Structural Order in Metallic Glasses. Microscopy and Microanalysis, 2003, 9, 509-515.	0.2	61
114	Structure of Shear Bands in Zirconium-Based Metallic Glasses Observed by Transmission Electron Microscopy. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	0
115	Glass-forming ability and crystallization of bulk metallic glass (HfxZr1â^'x)52.5Cu17.9Ni14.6Al10Ti5. Journal of Non-Crystalline Solids, 2002, 311, 77-82.	1.5	58
116	Medium-Range Order in Metallic Glasses Studied by Fluctuation Microscopy. Microscopy and Microanalysis, 2001, 7, 1260-1261.	0.2	14
117	Anomalous Small-Angle X-ray Scattering Studies of Phase Separation in Bulk Amorphous Zr _{52.5} Ti _{5} Cu _{17.9} Ni _{14.6Materials Transactions, 2001, 42, 562-564.}	iubd .a l <su< td=""><td>JB16B>10</td></su<>	JB 16 B>10
118	The Enhancement of Band Edge Emission from ZnS/Zn(OH)2 Quantum Dots. Materials Research Society Symposia Proceedings, 2000, 642, 3181.	0.1	0
119	Plasticity at Crack Tips in Zr-Based Bulk Metallic Glasses. Materials Research Society Symposia Proceedings, 2000, 644, 12191.	0.1	2
120	Preparation and Mechanical Properties of Hafnium-based Bulk Metallic Glasses. Materials Research Society Symposia Proceedings, 2000, 644, 12161.	0.1	0
121	Effect of annealing on Y/Mo multilayers. Journal of Applied Physics, 1999, 86, 2459-2463.	1.1	4
122	Observation of Coulomb-blockade in a field-effect transistor with silicon nanocrystal floating gate at room temperature. Solid State Communications, 1999, 111, 171-174.	0.9	6
123	Short-Range Order and Nanocrystallization in Amorphous Zr-Ti-Cu-Ni-Al. Materials Research Society Symposia Proceedings, 1999, 580, 381.	0.1	3
124	Electrical characteristics of SiO2/crystalline Si quantum dots/SiO2 double-barrier diode. Journal of Non-Crystalline Solids, 1998, 227-230, 1168-1172.	1.5	3
125	Electron Tunneling in nc-Si/a-SiO ₂ Double-Barrier Diode. Chinese Physics Letters, 1998, 15, 216-218.	1.3	2
126	Observation of Coulomb Blockade Effect in Silicon Nanocrystallites at room Temperature. Materials Research Society Symposia Proceedings, 1997, 467, 367.	0.1	3

#	Article	IF	CITATIONS
127	The fabrication and application of a novel OASLM based on a-Si:H and its alloy. Journal of Non-Crystalline Solids, 1996, 198-200, 1176-1179.	1.5	0