

Xiaoshuang Chen

List of Publications by Year in descending order

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218
papers

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citations

44069

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40979

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222
all docs

222
docs citations

222
times ranked

11092
citing authors

#	ARTICLE	IF	CITATIONS
1	Penta-graphene: A new carbon allotrope. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2372-2377.	7.1	1,114
2	Ultrasensitive and Broadband MoS ₂ Photodetector Driven by Ferroelectrics. Advanced Materials, 2015, 27, 6575-6581.	21.0	722
3	Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. Science Advances, 2017, 3, e1700589.	10.3	419
4	Surface Plasmon-Enhanced Photodetection in Few Layer MoS ₂ Phototransistors with Au Nanostructure Arrays. Small, 2015, 11, 2392-2398.	10.0	359
5	Unipolar barrier photodetectors based on van der Waals heterostructures. Nature Electronics, 2021, 4, 357-363.	26.0	292
6	Recent Progress on Localized Field Enhanced Two-dimensional Material Photodetectors from Ultraviolet-Visible to Infrared. Small, 2017, 13, 1700894.	10.0	234
7	Arrayed Van Der Waals Broadband Detectors for Dual-Band Detection. Advanced Materials, 2017, 29, 1604439.	21.0	218
8	High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. Nature Communications, 2019, 10, 4663.	12.8	213
9	Palladium Diselenide Long-Wavelength Infrared Photodetector with High Sensitivity and Stability. ACS Nano, 2019, 13, 2511-2519.	14.6	198
10	Role of Chemical Potential in Flake Shape and Edge Properties of Monolayer MoS ₂ . Journal of Physical Chemistry C, 2015, 119, 4294-4301.	3.1	178
11	Silane-catalysed fast growth of large single-crystalline graphene on hexagonal boron nitride. Nature Communications, 2015, 6, 6499.	12.8	173
12	Defect Engineering in MoSe ₂ for the Hydrogen Evolution Reaction: From Point Defects to Edges. ACS Applied Materials & Interfaces, 2017, 9, 42688-42698.	8.0	171
13	Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature. Advanced Materials, 2014, 26, 8203-8209.	21.0	168
14	The capacity fading mechanism and improvement of cycling stability in MoS ₂ -based anode materials for lithium-ion batteries. Nanoscale, 2016, 8, 2918-2926.	5.6	168
15	Interface control and modification of band alignment and electrical properties of HfTiO/GaAs gate stacks by nitrogen incorporation. Journal of Materials Chemistry C, 2014, 2, 5299-5308.	5.5	142
16	Atomic Mechanism of Electrocatalytically Active Co-N Complexes in Graphene Basal Plane for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2015, 7, 27405-27413.	8.0	139
17	When Nanowires Meet Ultrahigh Ferroelectric Field-High-Performance Full-Depleted Nanowire Photodetectors. Nano Letters, 2016, 16, 2548-2555.	9.1	135
18	Visible Light-Assisted High-Performance Mid-Infrared Photodetectors Based on Single InAs Nanowire. Nano Letters, 2016, 16, 6416-6424.	9.1	134

#	ARTICLE	IF	CITATIONS
19	High-Sensitivity Floating-Gate Phototransistors Based on WS ₂ and MoS ₂ . <i>Advanced Functional Materials</i> , 2016, 26, 6084-6090.	14.9	124
20	AsP/InSe Van der Waals Tunneling Heterojunctions with Ultrahigh Reverse Rectification Ratio and High Photosensitivity. <i>Advanced Functional Materials</i> , 2019, 29, 1900314.	14.9	121
21	Blackbody-sensitive room-temperature infrared photodetectors based on low-dimensional tellurium grown by chemical vapor deposition. <i>Science Advances</i> , 2021, 7, .	10.3	121
22	Recent Progress on Electrical and Optical Manipulations of Perovskite Photodetectors. <i>Advanced Science</i> , 2021, 8, e2100569.	11.2	118
23	Dynamic metamaterial based on the graphene split ring high-Q Fano-resonator for sensing applications. <i>Nanoscale</i> , 2016, 8, 15196-15204.	5.6	110
24	High-Performance Ferroelectric Polymer Side-Gated CdS Nanowire Ultraviolet Photodetectors. <i>Advanced Functional Materials</i> , 2016, 26, 7690-7696.	14.9	107
25	Melting behavior in ultrathin metallic nanowires. <i>Physical Review B</i> , 2002, 66, .	3.2	105
26	PtTe ₂ -Based Type-II Dirac Semimetal and Its van der Waals Heterostructure for Sensitive Room Temperature Terahertz Photodetection. <i>Small</i> , 2019, 15, e1903362.	10.0	98
27	Unveiling the Growth Mechanism of MoS ₂ with Chemical Vapor Deposition: From Two-Dimensional Planar Nucleation to Self-Seeding Nucleation. <i>Crystal Growth and Design</i> , 2018, 18, 1012-1019.	3.0	92
28	Layer-Dependent Dopant Stability and Magnetic Exchange Coupling of Iron-Doped MoS ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7534-7541.	8.0	90
29	Toward Sensitive Room-Temperature Broadband Detection from Infrared to Terahertz with Antenna-Integrated Black Phosphorus Photoconductor. <i>Advanced Functional Materials</i> , 2017, 27, 1604414.	14.9	88
30	Ferroelectric Localized Field-Enhanced ZnO Nanosheet Ultraviolet Photodetector with High Sensitivity and Low Dark Current. <i>Small</i> , 2018, 14, e1800492.	10.0	85
31	High-Polarization-Discriminating Infrared Detection Using a Single Quantum Well Sandwiched in Plasmonic Micro-Cavity. <i>Scientific Reports</i> , 2014, 4, 6332.	3.3	77
32	Anisotropic ultrasensitive PdTe ₂ -based phototransistor for room-temperature long-wavelength detection. <i>Science Advances</i> , 2020, 6, .	10.3	74
33	Atomic structures and covalent-to-metallic transition of lead clusters Pbn (n=2-22). <i>Physical Review A</i> , 2005, 71, .	2.5	73
34	Ultrasensitive Room-Temperature Terahertz Direct Detection Based on a Bismuth Selenide Topological Insulator. <i>Advanced Functional Materials</i> , 2018, 28, 1801786.	14.9	73
35	Visible to near-infrared photodetectors based on MoS ₂ vertical Schottky junctions. <i>Nanotechnology</i> , 2017, 28, 484002.	2.6	73
36	Mid-infrared polarization-controlled broadband achromatic meta-device. <i>Science Advances</i> , 2020, 6, .	10.3	71

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37	Tunable and high-sensitivity sensing based on Fano resonance with coupled plasmonic cavities. <i>Scientific Reports</i> , 2017, 7, 10639.	3.3	68
38	Melting behavior of ultrathin titanium nanowires. <i>Physical Review B</i> , 2003, 67, .	3.2	66
39	Multiple channeled phenomena in heterostructures with defects mode. <i>Applied Physics Letters</i> , 2004, 84, 1629-1631.	3.3	64
40	Effect of dimethylaluminumhydride-derived aluminum oxynitride passivation layer on the interface chemistry and band alignment of HfTiO-InGaAs gate stacks. <i>APL Materials</i> , 2013, 1, .	5.1	60
41	Unveiling the atomic structure and electronic properties of atomically thin boron sheets on an Ag(111) surface. <i>Nanoscale</i> , 2016, 8, 16284-16291.	5.6	59
42	Controllable Doping in 2D Layered Materials. <i>Advanced Materials</i> , 2021, 33, e2104942.	21.0	59
43	Study of gain and photoresponse characteristics for back-illuminated separate absorption and multiplication GaN avalanche photodiodes. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	55
44	Broadband Achromatic Metalens in Mid-Wavelength Infrared. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100020.	8.7	54
45	Broadband circular polarizers constructed using helix-like chiral metamaterials. <i>Nanoscale</i> , 2016, 8, 14725-14729.	5.6	53
46	Structure and magnetic properties of Co-Cu bimetallic clusters. <i>Physical Review B</i> , 2002, 66, .	3.2	52
47	Highly Sensitive and Wide-Band Tunable Terahertz Response of Plasma Waves Based on Graphene Field Effect Transistors. <i>Scientific Reports</i> , 2014, 4, 5470.	3.3	52
48	Defect Passivation and Photoluminescence Enhancement of Monolayer MoS ₂ Crystals through Sodium Halide-Assisted Chemical Vapor Deposition Growth. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9563-9571.	8.0	52
49	Ferroelectric polymer tuned two dimensional layered MoTe ₂ photodetector. <i>RSC Advances</i> , 2016, 6, 87416-87421.	3.6	51
50	MoS ₂ nanosheet photodetectors with ultrafast response. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	47
51	Hybrid WSe ₂ /In ₂ O ₃ Phototransistor with Ultrahigh Detectivity by Efficient Suppression of Dark Currents. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34489-34496.	8.0	47
52	Electrochemical Lithiation Mechanism of Two-Dimensional Transition-Metal Dichalcogenide Anode Materials: Intercalation versus Conversion Reactions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2139-2146.	3.1	47
53	Accurate Simulation of Temperature-Dependent Dark Current in HgCdTe Infrared Detectors Assisted by Analytical Modeling. <i>Journal of Electronic Materials</i> , 2010, 39, 981-985.	2.2	46
54	Influencing Sources for Dark Current Transport and Avalanche Mechanisms in Planar and Mesa HgCdTe p-i-n Electron-Avalanche Photodiodes. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 572-576.	3.0	44

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55	Room-Temperature Single-Photon Detector Based on Single Nanowire. <i>Nano Letters</i> , 2018, 18, 5439-5445.	9.1	42
56	Novel SnS _x Se _{1-x} nanocrystals with tunable band gap: experimental and first-principles calculations. <i>Journal of Materials Chemistry</i> , 2011, 21, 12605.	6.7	40
57	High performance colored selective absorbers for architecturally integrated solar applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7353-7360.	10.3	39
58	Large-area, lithography-free, narrow-band and highly directional thermal emitter. <i>Nanoscale</i> , 2019, 11, 19742-19750.	5.6	39
59	Formation of stable fullerene-like GaN clusters (6-n): Gradient-corrected density-functional theory and a genetic global optimization approach. <i>Physical Review B</i> , 2006, 74, .	3.2	38
60	Thickness-Dependent Phase Stability and Electronic Properties of GaN Nanosheets and MoS ₂ /GaN van der Waals Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3861-3867.	3.1	38
61	High-frequency rectifiers based on type-II Dirac fermions. <i>Nature Communications</i> , 2021, 12, 1584.	12.8	37
62	Hybrid Dirac semimetal-based photodetector with efficient low-energy photon harvesting. <i>Light: Science and Applications</i> , 2022, 11, 53.	16.6	35
63	Interface and polarization effects induced Schottky-barrier-free contacts in two-dimensional MXene/GaN heterojunctions. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7350-7357.	5.5	34
64	Controllable growth of type-II Dirac semimetal PtTe ₂ atomic layer on Au substrate for sensitive room temperature terahertz photodetection. <i>Information Materials</i> , 2021, 3, 705-715.	17.3	33
65	In Situ Atom Scale Visualization of Domain Wall Dynamics in VO ₂ Insulator-Metal Phase Transition. <i>Scientific Reports</i> , 2014, 4, 6544.	3.3	31
66	Towards sensitive terahertz detection via thermoelectric manipulation using graphene transistors. <i>NPG Asia Materials</i> , 2018, 10, 318-327.	7.9	31
67	Recent progress and challenges based on two-dimensional material photodetectors. <i>Nano Express</i> , 2021, 2, 012001.	2.4	31
68	Electron-injection driven phase transition in two-dimensional transition metal dichalcogenides. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4432-4440.	5.5	31
69	Interface effect on electronic and optical properties of antimonene/GaAs van der Waals heterostructures. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9687-9693.	5.5	29
70	Room-Temperature High-Gain Long-Wavelength Photodetector via Optical-Electrical Controlling of Hot Carriers in Graphene. <i>Advanced Optical Materials</i> , 2018, 6, 1800836.	7.3	28
71	Structural and electronic properties of Sbn (n=2-10) clusters using density-functional theory. <i>Physical Review A</i> , 2005, 72, .	2.5	27
72	Spin Switch of the Transition-Metal-Doped Boron Nitride Sheet through H/F Chemical Decoration. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8899-8906.	3.1	27

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73	Enlargement of the nontransmission frequency range of multiple-channeled filters by the use of heterostructures. <i>Journal of Applied Physics</i> , 2004, 95, 424-426.	2.5	26
74	Density-functional study of structural and electronic properties of AlN($n=2\text{--}12$) clusters. <i>Physical Review A</i> , 2005, 72, .	2.5	26
75	CVD-derived Hf-based High-k Gate Dielectrics. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2013, 38, 235-261.	12.3	26
76	Structural, electronic, and optical properties of hydrogenated few-layer silicene: Size and stacking effects. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	26
77	Performance Optimization of InSb Infrared Focal-Plane Arrays with Diffractive Microlenses. <i>Journal of Electronic Materials</i> , 2014, 43, 2795-2801.	2.2	26
78	Fabrication of ZnO/CdS/Cu ₂ ZnSnS ₄ heterostructure nanorod arrays via a solution-based route. <i>CrystEngComm</i> , 2013, 15, 1139-1145.	2.6	24
79	Reflective metalens with sub-diffraction-limited and multifunctional focusing. <i>Scientific Reports</i> , 2017, 7, 12632.	3.3	24
80	SbSI whisker/PbI ₂ flake mixed-dimensional van der Waals heterostructure for photodetection. <i>CrystEngComm</i> , 2019, 21, 3779-3787.	2.6	24
81	Broadband Spin-Driven Anomalous Surface Plasmon Polariton Steering via V-Shaped Aperture Metasurfaces. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800167.	2.8	24
82	Quantum dot single-photon switches of resonant tunneling current for discriminating-photon-number detection. <i>Scientific Reports</i> , 2015, 5, 9389.	3.3	23
83	Realization of Both High Absorption of Active Materials and Low Ohmic Loss in Plasmonic Cavities. <i>Advanced Optical Materials</i> , 2019, 7, 1801627.	7.3	23
84	HgCdTe mid-Infrared photo response enhanced by monolithically integrated meta-lenses. <i>Scientific Reports</i> , 2020, 10, 6372.	3.3	23
85	Prediction of half-semiconductor antiferromagnets with vanishing net magnetization. <i>RSC Advances</i> , 2015, 5, 46640-46647.	3.6	21
86	Circular Polarization Discrimination Enhanced by Anisotropic Media. <i>Advanced Optical Materials</i> , 2020, 8, 1901800.	7.3	20
87	Carrier dynamics in submonolayer InGaAs ^x GaAs quantum dots. <i>Applied Physics Letters</i> , 2006, 89, 013113.	3.3	19
88	Structural, vibrational and luminescence properties of longitudinal twinning Zn ₂ GeO ₄ nanowires. <i>CrystEngComm</i> , 2013, 15, 764-768.	2.6	19
89	Surface morphology, composition and wettability Cu ₂ O/CuO composite thin films prepared by a facile hydrothermal method. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 901-906.	2.3	19
90	Significant Enhancement of Single-Walled Carbon Nanotube Based Infrared Photodetector Using PbS Quantum Dots. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-8.	2.9	19

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91	Top-gated black phosphorus phototransistor for sensitive broadband detection. <i>Nanoscale</i> , 2018, 10, 5852-5858.	5.6	19
92	Enhanced polarization sensitivity by plasmonic-cavity in graphene phototransistors. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	19
93	Enhanced Performance of HgCdTe Midwavelength Infrared Electron Avalanche Photodetectors With Guard Ring Designs. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 542-546.	3.0	19
94	Intrinsic Polarization-Induced Enhanced Ferromagnetism and Self-Doped p^{n} Junctions in CrBr_3/GaN van der Waals Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8764-8773.	8.0	19
95	Relaxations and bonding mechanism in $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ with mercury vacancy defect: First-principles study. <i>Physical Review B</i> , 2006, 73, .	3.2	18
96	ZnSe-Based Longitudinal Twinning Nanowires. <i>Advanced Engineering Materials</i> , 2014, 16, 459-465.	3.5	18
97	Enhanced Performance of HgCdTe Long-Wavelength Infrared Photodetectors With nBn Design. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 2001-2007.	3.0	18
98	High-performance HgCdTe avalanche photodetector enabled with suppression of band-to-band tunneling effect in mid-wavelength infrared. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	18
99	Sub-Wavelength Grating Enhanced Ultra-Narrow Graphene Perfect Absorber. <i>Plasmonics</i> , 2018, 13, 2267-2272.	3.4	17
100	Colossal Terahertz Photoresponse at Room Temperature: A Signature of Type-II Dirac Fermiology. <i>ACS Nano</i> , 2021, 15, 5138-5146.	14.6	17
101	Controllable light transmission through cascaded metal films perforated with periodic hole arrays. <i>Applied Physics Letters</i> , 2008, 93, 221909.	3.3	16
102	Direct observation and manipulation of hot electrons at room temperature. <i>National Science Review</i> , 2021, 8, nwa295.	9.5	16
103	Electronic properties and chemical trends of the arsenic (<i>in situ</i>) impurities in $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$. First-principles study. <i>Physical Review B</i> , 2007, 76, .	3.2	15
104	Gate-tunable $\text{ReS}_2/\text{MoTe}_2$ heterojunction with high-performance photodetection. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	15
105	Hierarchical computational screening of layered lead-free metal halide perovskites for optoelectronic applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6476-6486.	10.3	15
106	Potential solution-induced HfAlO dielectrics and their applications in low-voltage-operating transistors and high-gain inverters. <i>RSC Advances</i> , 2018, 8, 36584-36595.	3.6	14
107	Coupling of localized surface plasmon modes in compound structure with metallic nanoparticle and nanohole arrays. <i>Journal of Applied Physics</i> , 2010, 108, 093520.	2.5	13
108	Tailoring electronic properties of InAs nanowires by surface functionalization. <i>Journal of Applied Physics</i> , 2011, 110, 103713.	2.5	13

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109	Analysis of Interface Scattering in AlGaN/GaN/InGaN/GaN Double-Heterojunction High-Electron-Mobility Transistors. <i>Journal of Electronic Materials</i> , 2012, 41, 2130-2138.	2.2	13
110	Influence of water content in mixed solvent on surface morphology, wettability, and photoconductivity of ZnO thin films. <i>Nanoscale Research Letters</i> , 2014, 9, 485.	5.7	13
111	Enhanced photoelectrochemical properties of nanocrystalline TiO ₂ electrode by surface sensitization with Cu _x O quantum dots. <i>Scientific Reports</i> , 2017, 7, 5291.	3.3	13
112	Distinctive Performance of Terahertz Photodetection Driven by Charge Density Wave Order in CVD-Grown Tantalum Diselenide. <i>Advanced Functional Materials</i> , 2019, 29, 1905057.	14.9	13
113	High-responsivity and polarization-discriminating terahertz photodetector based on plasmonic resonance. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	13
114	Recent Progress in Improving the Performance of Infrared Photodetectors via Optical Field Manipulations. <i>Sensors</i> , 2022, 22, 677.	3.8	13
115	Stoichiometric effect on electrical and near-infrared photodetection properties of full-composition-range GaAs _{1-x} Sb _x nanowires. <i>Nano Research</i> , 2021, 14, 3961-3968.	10.4	12
116	Ultrasensitive and Self-Powered Terahertz Detection Driven by Nodal-Line Dirac Fermions and Van der Waals Architecture. <i>Advanced Science</i> , 2021, 8, e2102088.	11.2	12
117	Selective excitation of surface-polariton Bloch waves for efficient transmission of light through a subwavelength hole array in a thin metal film. <i>Physical Review B</i> , 2007, 76, .	3.2	11
118	Effects of growth substrate on the morphologies of TiO ₂ hierarchical nanoarrays and their optical and photocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2103-2107.	2.2	11
119	Selected-Area Chemical Nanoengineering of Vanadium Dioxide Nanostructures Through Nonlithographic Direct Writing. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800974.	3.7	11
120	Sulfur-Driven Transition from Vertical to Lateral Growth of 2D SnS ₂ Heterostructures and Their Band Alignments. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27820-27828.	3.1	11
121	The mechanism of the photoresponse blueshifts for the n-type conversion region of n ⁺ -on-p Hg _{0.722} Cd _{0.278} Te infrared photodiode. <i>Journal of Applied Physics</i> , 2010, 107, 044513.	2.5	10
122	Growth, structural and vibrating properties of CdSe/Ge, CdSe/Ge/CdSe, CdSe/Ge/Ge, Ge/GeSe heterostructure nanowires and GeSe nanobelts. <i>CrystEngComm</i> , 2011, 13, 2734.	2.6	10
123	Effect of solution concentration on surface morphology and photocatalytic activity of ZnO thin films synthesized by hydrothermal methods. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 882-887.	2.2	10
124	Effect of ethylene glycol monomethyl ether ratio in mixed solvent on surface morphology, wettability and photocatalytic properties of ZnO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 2948-2956.	2.2	10
125	Uniformly Broadband Far-Infrared Response From the Photocarrier Tunneling of Mesa Si:P Blocked-Impurity-Band Detector. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 560-564.	3.0	10
126	Heteroepitaxial growth and interface band alignment in a large-mismatch CsPbI ₃ /GaN heterojunction. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1984-1990.	5.5	10

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127	Spacer Cation Engineering of Two-Dimensional Hybrid Perovskites with Tunable Band Alignment and Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8408-8416.	3.1	10
128	Realization of Integrated Narrow Bandpass Filters in the Infrared Region. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2004, 25, 1677-1683.	0.6	9
129	Nanowires: Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature (<i>Adv. Mater.</i> 48/2014). <i>Advanced Materials</i> , 2014, 26, 8232-8232.	21.0	9
130	Bulk photovoltaic effect at infrared wavelength in strained Bi ₂ Te ₃ films. <i>APL Materials</i> , 2016, 4, .	5.1	9
131	A novel transmission model for plasmon-induced transparency in plasmonic waveguide system with a single resonator. <i>RSC Advances</i> , 2016, 6, 51480-51484.	3.6	9
132	Polarization-Induced Band-Alignment Transition and Nonvolatile p-n Junctions in 2D Van der Waals Heterostructures. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	9
133	Light transmission through metallic two-dimensional arrays of compound coaxial structures with central and annular apertures: A charge oscillation picture. <i>Journal of Applied Physics</i> , 2009, 106, 113529.	2.5	8
134	Metal-organic chemical vapor deposition of aluminium oxynitride from propylamine-dimethylaluminium hydride and oxygen: growth mode dependence and performance optimization. <i>Journal of Materials Chemistry</i> , 2012, 22, 7468.	6.7	8
135	Photodetectors: Ultrasensitive and Broadband MoS ₂ Photodetector Driven by Ferroelectrics (<i>Adv. Mater.</i> 42/2015). <i>Advanced Materials</i> , 2015, 27, 6538-6538.	21.0	8
136	Crystal Phase and Facet Effects on the Structural Stability and Electronic Properties of GaP Nanowires. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12030-12036.	3.1	8
137	A visible high efficiency and polarization-insensitive 34-level dielectric metasurface hologram. <i>RSC Advances</i> , 2017, 7, 26371-26376.	3.6	8
138	Dark Mode Driven Extra-narrow and Multiband Absorber. <i>Plasmonics</i> , 2018, 13, 729-735.	3.4	8
139	Complete band gaps in three-dimensional quantum dot photonic crystals. <i>Physical Review B</i> , 2006, 74, .	3.2	7
140	Microscopic Origin of Electrical Compensation in Arsenic-Doped HgCdTe by Molecular Beam Epitaxy: Density Functional Study. <i>Journal of Electronic Materials</i> , 2007, 36, 890-894.	2.2	7
141	Surface morphology, electrochemical and electrical performances of ZnO thin films sensitized with Ag nanoparticles by UV irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9798-9805.	2.2	7
142	Design of Power Splitters Based on Hybrid Plasmonic Waveguides. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8644.	2.5	7
143	The enhanced infrared absorption of quantum well infrared photodetector based on a hybrid structure of periodic gold stripes overlaid with a gold film. <i>Optics Communications</i> , 2014, 328, 91-95.	2.1	6
144	Enhanced photocatalytic performances of ZnO with Na doping and graphene oxide quantum dots. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 9131-9135.	2.2	6

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145	Effect of ZnS layers on optical properties of prepared CdS/TiO ₂ nanotube arrays for photocatalyst. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	6
146	Facile Hydrothermal Synthesis of SnO ₂ Nanoparticles with Enhanced Lithium Storage Performance. <i>Chemistry Letters</i> , 2017, 46, 1639-1642.	1.3	6
147	Enhanced visible light response of ZnO porous thin film by post-annealing treatment. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4051-4057.	2.2	6
148	Cut-off wavelength manipulation of pixel-level plasmonic microcavity for long wavelength infrared detection. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	6
149	Effect of vacuum annealing on solar light response and photocatalytic performance of Ag nanoparticle-modified ZnO thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	6
150	Catalytic effect and nucleation stability of Au on GaAs(111)B surface. <i>Journal of Applied Physics</i> , 2010, 108, 013526.	2.5	5
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