

Xiaoshuang Chen

List of Publications by Year in descending order

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218
papers

9,666
citations

44069

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docs citations

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times ranked

11092
citing authors

#	ARTICLE	IF	CITATIONS
1	Heteroepitaxial growth and interface band alignment in a large-mismatch CsPb ₃ /GaN heterojunction. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1984-1990.	5.5	10
2	Dip-Coating Self-Assembly Fabrication and Polarization Sensitive Photoresponse of Aligned Single-Walled Carbon Nanotube Film. <i>Sensors</i> , 2022, 22, 490.	3.8	2
3	Recent Progress in Improving the Performance of Infrared Photodetectors via Optical Field Manipulations. <i>Sensors</i> , 2022, 22, 677.	3.8	13
4	Hybrid Dirac semimetal-based photodetector with efficient low-energy photon harvesting. <i>Light: Science and Applications</i> , 2022, 11, 53.	16.6	35
5	Photonic slide rule with metasurfaces. <i>Light: Science and Applications</i> , 2022, 11, 77.	16.6	5
6	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
7	Collapse Breakdown in Mid-Wavelength Infrared HgCdTe Avalanche Photodetector. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-7.	2.9	1
8	Nonmonotonic wavelength dependence of the polarization-sensitive infrared photoresponse of an anisotropic semimetal. <i>Nanoscale</i> , 2022, 14, 7314-7321.	5.6	1
9	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
10	Mechanism of dark current dependence on reverse voltage in mid-wavelength infrared HgCdTe mesa PIN avalanche diode. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	5
11	Recent progress and challenges based on two-dimensional material photodetectors. <i>Nano Express</i> , 2021, 2, 012001.	2.4	31
12	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
13	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
14	Colossal Terahertz Photoresponse at Room Temperature: A Signature of Type-II Dirac Fermiology. <i>ACS Nano</i> , 2021, 15, 5138-5146.	14.6	17
15	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
16	High-frequency rectifiers based on type-II Dirac fermions. <i>Nature Communications</i> , 2021, 12, 1584.	12.8	37
17	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
18	Recent Progress on Electrical and Optical Manipulations of Perovskite Photodetectors. <i>Advanced Science</i> , 2021, 8, e2100569.	11.2	118

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19	Controllable growth of type-II Dirac semimetal PtTe ₂ atomic layer on Au substrate for sensitive room temperature terahertz photodetection. <i>Informa- Mater</i> , 2021, 3, 705-715.	17.3	33
20	Unipolar barrier photodetectors based on van der Waals heterostructures. <i>Nature Electronics</i> , 2021, 4, 357-363.	26.0	292
21	Broadband Achromatic Metalens in Mid-Wavelength Infrared. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100020.	8.7	54
22	Carbon Nanotube Far Infrared Detectors with High Responsivity and Superior Polarization Selectivity Based on Engineered Optical Antennas. <i>Sensors</i> , 2021, 21, 5221.	3.8	2
23	Design of Power Splitters Based on Hybrid Plasmonic Waveguides. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8644.	2.5	7
24	Controllable Doping in 2D Layered Materials. <i>Advanced Materials</i> , 2021, 33, e2104942.	21.0	59
25	Direct observation and manipulation of hot electrons at room temperature. <i>National Science Review</i> , 2021, 8, nwaa295.	9.5	16
26	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
27	Topological Dirac Semimetals for Ultra-Sensitive Terahertz Detection. , 2021, , .		0
28	Metamaterial integrated circular polarization quantum well infrared photodetectors. , 2021, , .		0
29	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
30	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
31	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
32	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
33	Theoretical Investigation on Microcavity Coupler for Terahertz Quantum-Well Infrared Photodetectors. <i>IEEE Access</i> , 2020, 8, 176149-176157.	4.2	2
34	Anisotropic ultrasensitive PdTe ₂ -based phototransistor for room-temperature long-wavelength detection. <i>Science Advances</i> , 2020, 6, .	10.3	74
35	Mid-infrared polarization-controlled broadband achromatic metadvice. <i>Science Advances</i> , 2020, 6, .	10.3	71
36	Terahertz Photon Detection: Sensitive Terahertz Detection and Imaging Driven by the Photothermoelectric Effect in Ultrashort-Channel Black Phosphorus Devices (<i>Adv. Sci.</i> 5/2020). <i>Advanced Science</i> , 2020, 7, 2070029.	11.2	1

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37	Circular Polarization Discrimination Enhanced by Anisotropic Media. <i>Advanced Optical Materials</i> , 2020, 8, 1901800.	7.3	20
38	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
39	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
40	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
41	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
42	HgCdTe mid-Infrared photo response enhanced by monolithically integrated meta-lenses. <i>Scientific Reports</i> , 2020, 10, 6372.	3.3	23
43	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
44	Negative Refraction Based On Supermode Theory in Metal Waveguide Arrays. <i>Plasmonics</i> , 2019, 14, 441-445.	3.4	2
45	High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. <i>Nature Communications</i> , 2019, 10, 4663.	12.8	213
46	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
47	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
48	Enhanced polarization sensitivity by plasmonic-cavity in graphene phototransistors. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	19
49	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
50	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
51	SbSI whisker/PbI ₂ flake mixed-dimensional van der Waals heterostructure for photodetection. <i>CrystEngComm</i> , 2019, 21, 3779-3787.	2.6	24
52	The Novel of n - p Type Transition in the ZnSe/Ge Heterojunction Nanowire: First Principles Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 5847-5853.	0.9	0
53	Gate-tunable ReS ₂ /MoTe ₂ heterojunction with high-performance photodetection. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	15
54	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

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55	High-responsivity and polarization-discriminating terahertz photodetector based on plasmonic resonance. Applied Physics Letters, 2019, 114, .	3.3	13
56	Surface morphology, electrochemical and electrical performances of ZnO thin films sensitized with Ag nanoparticles by UV irradiation. Journal of Materials Science: Materials in Electronics, 2019, 30, 9798-9805.	2.2	7
57	Cut-off wavelength manipulation of pixel-level plasmonic microcavity for long wavelength infrared detection. Applied Physics Letters, 2019, 114, .	3.3	6
58	PtTe ₂ -Based Type-II Dirac Semimetal and Its van der Waals Heterostructure for Sensitive Room Temperature Terahertz Photodetection. Small, 2019, 15, e1903362.	10.0	98
59	Large-area, lithography-free, narrow-band and highly directional thermal emitter. Nanoscale, 2019, 11, 19742-19750.	5.6	39
60	Broadband Spin-Driven Anomalous Surface Plasmon Polariton Steering via V-Shaped Aperture Metasurfaces. Advanced Theory and Simulations, 2019, 2, 1800167.	2.8	24
61	Palladium Diselenide Long-Wavelength Infrared Photodetector with High Sensitivity and Stability. ACS Nano, 2019, 13, 2511-2519.	14.6	198
62	Towards sensitive terahertz detection via thermoelectric manipulation using graphene transistors. NPG Asia Materials, 2018, 10, 318-327.	7.9	31
63	Sub-Wavelength Grating Enhanced Ultra-Narrow Graphene Perfect Absorber. Plasmonics, 2018, 13, 2267-2272.	3.4	17
64	Unveiling the Growth Mechanism of MoS ₂ with Chemical Vapor Deposition: From Two-Dimensional Planar Nucleation to Self-Seeding Nucleation. Crystal Growth and Design, 2018, 18, 1012-1019.	3.0	92
65	Ferroelectric Localized Field-Enhanced ZnO Nanosheet Ultraviolet Photodetector with High Sensitivity and Low Dark Current. Small, 2018, 14, e1800492.	10.0	85
66	Significant Enhancement of Single-Walled Carbon Nanotube Based Infrared Photodetector Using PbS Quantum Dots. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8.	2.9	19
67	Top-gated black phosphorus phototransistor for sensitive broadband detection. Nanoscale, 2018, 10, 5852-5858.	5.6	19
68	Influencing Sources for Dark Current Transport and Avalanche Mechanisms in Planar and Mesa HgCdTe p-i-n Electron-Avalanche Photodiodes. IEEE Transactions on Electron Devices, 2018, 65, 572-576.	3.0	44
69	Dark Mode Driven Extra-narrow and Multiband Absorber. Plasmonics, 2018, 13, 729-735.	3.4	8
70	Photodetectors: Ultrasensitive Room-Temperature Terahertz Direct Detection Based on a Bismuth Selenide Topological Insulator (Adv. Funct. Mater. 31/2018). Advanced Functional Materials, 2018, 28, 1870219.	14.9	5
71	Potential solution-induced HfAlO dielectrics and their applications in low-voltage-operating transistors and high-gain inverters. RSC Advances, 2018, 8, 36584-36595.	3.6	14
72	Dielectric Metalens and Its Application in Near-Infrared Single Photon Detection. , 2018, , .		0

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73	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
74	Selected-Area Chemical Nanoengineering of Vanadium Dioxide Nanostructures Through Nonlithographic Direct Writing. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800974.	3.7	11
75	Ultrasensitive Room-Temperature Terahertz Direct Detection Based on a Bismuth Selenide Topological Insulator. <i>Advanced Functional Materials</i> , 2018, 28, 1801786.	14.9	73
76	Room-Temperature Single-Photon Detector Based on Single Nanowire. <i>Nano Letters</i> , 2018, 18, 5439-5445.	9.1	42
77	Tailoring Active Far-Infrared Resonator with Graphene Metasurface and Its Complementary. <i>Plasmonics</i> , 2017, 12, 353-360.	3.4	4
78	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
79	Arrayed Van Der Waals Broadband Detectors for Dual-Band Detection. <i>Advanced Materials</i> , 2017, 29, 1604439.	21.0	218
80	Recent Progress on Localized Field Enhanced Two-dimensional Material Photodetectors from Ultraviolet-Visible to Infrared. <i>Small</i> , 2017, 13, 1700894.	10.0	234
81	A visible high efficiency and polarization-insensitive 34-level dielectric metasurface hologram. <i>RSC Advances</i> , 2017, 7, 26371-26376.	3.6	8
82	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
83	Reflective metalens with sub-diffraction-limited and multifunctional focusing. <i>Scientific Reports</i> , 2017, 7, 12632.	3.3	24
84	MoS ₂ nanosheet photodetectors with ultrafast response. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	47
85	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
86	Facile Hydrothermal Synthesis of SnO ₂ Nanoparticles with Enhanced Lithium Storage Performance. <i>Chemistry Letters</i> , 2017, 46, 1639-1642.	1.3	6
87	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
88	Tunable and high-sensitivity sensing based on Fano resonance with coupled plasmonic cavities. <i>Scientific Reports</i> , 2017, 7, 10639.	3.3	68
89	Electrical and optical properties of a kind of ferroelectric oxide films comprising of PbZr _{0.4} Ti _{0.6} O ₃ stacks. <i>Journal of Applied Physics</i> , 2017, 122, 024102.	2.5	1
90	First-principles calculations of GaN:Gd nanowires: Carbon-dopants-induced room-temperature ferromagnetism. <i>AIP Advances</i> , 2017, 7, .	1.3	3

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91	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
92	Optical properties and UV photoresponse of Na ₂ x Zn _{1-x} O thin film. Journal of Materials Science: Materials in Electronics, 2017, 28, 1022-1027.	2.2	1
93	Enhanced photoelectrochemical properties of nanocrystalline TiO ₂ electrode by surface sensitization with Cu _x O quantum dots. Scientific Reports, 2017, 7, 5291.	3.3	13
94	Hydroxide MgSn(OH) ₆ : A promising new photocatalyst for methyl orange degradation. Electronic Materials Letters, 2017, 13, 339-343.	2.2	3
95	Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. Science Advances, 2017, 3, e1700589.	10.3	419
96	Effect of solution concentration on surface morphology, optical properties and solar light response of ZnO thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 2731-2738.	2.2	3
97	Enhanced visible light response of ZnO porous thin film by post-annealing treatment. Journal of Materials Science: Materials in Electronics, 2017, 28, 4051-4057.	2.2	6
98	Plasmonic micro-disk cavity quantum well infrared photodetectors. , 2017, , .		0
99	Visible to near-infrared photodetectors based on MoS ₂ vertical Schottky junctions. Nanotechnology, 2017, 28, 484002.	2.6	73
100	High-Sensitivity Floating-Gate Phototransistors Based on WS ₂ and MoS ₂ . Advanced Functional Materials, 2016, 26, 6084-6090.	14.9	124
101	A facile method to fabricate superhydrophobic ZnO nanostructure with petal effect. Journal of Materials Science: Materials in Electronics, 2016, 27, 11524-11529.	2.2	1
102	Bulk photovoltaic effect at infrared wavelength in strained Bi ₂ Te ₃ films. APL Materials, 2016, 4, .	5.1	9
103	An efficiency and response enhanced metamaterial single photon detector. , 2016, , .		0
104	Cut-off wavelength extension of QWIP by MIM plasmonic cavity. , 2016, , .		0
105	A novel transmission model for plasmon-induced transparency in plasmonic waveguide system with a single resonator. RSC Advances, 2016, 6, 51480-51484.	3.6	9
106	Enhanced photocatalytic performances of ZnO with Na doping and graphene oxide quantum dots. Journal of Materials Science: Materials in Electronics, 2016, 27, 9131-9135.	2.2	6
107	Visible Light-Assisted High-Performance Mid-Infrared Photodetectors Based on Single InAs Nanowire. Nano Letters, 2016, 16, 6416-6424.	9.1	134
108	Ferroelectric polymer tuned two dimensional layered MoTe ₂ photodetector. RSC Advances, 2016, 6, 87416-87421.	3.6	51

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109	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
110	High-Performance Ferroelectric Polymer Side-Gated CdS Nanowire Ultraviolet Photodetectors. <i>Advanced Functional Materials</i> , 2016, 26, 7690-7696.	14.9	107
111	The Supermodes Excitations of Surface Plasmon Polaritons in Metal Waveguide Arrays. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8101-8105.	0.9	1
112	Chemical potential effects on polytypism in Au-catalyzed GaAs nanowire molecular beam epitaxy growth: A first-principles study. <i>Chemical Physics Letters</i> , 2016, 644, 147-151.	2.6	4
113	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
114	Broadband circular polarizers constructed using helix-like chiral metamaterials. <i>Nanoscale</i> , 2016, 8, 14725-14729.	5.6	53
115	The respective effects of direct and indirect couplings on the plasmon-induced transparency in waveguide systems. <i>Optics Communications</i> , 2016, 364, 83-87.	2.1	5
116	When Nanowires Meet Ultrahigh Ferroelectric Field—High-Performance Full-Depleted Nanowire Photodetectors. <i>Nano Letters</i> , 2016, 16, 2548-2555.	9.1	135
117	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
118	Plasmon Resonances in a Periodic Square Coaxial Hole Array in a Graphene Sheet. <i>Plasmonics</i> , 2016, 11, 1129-1137.	3.4	3
119	The capacity fading mechanism and improvement of cycling stability in MoS ₂ -based anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2016, 8, 2918-2926.	5.6	168
120	Au Nanoarrays: Surface Plasmon-Enhanced Photodetection in Few Layer MoS ₂ Phototransistors with Au Nanostructure Arrays (<i>Small</i> 20/2015). <i>Small</i> , 2015, 11, 2346-2346.	10.0	3
121	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
122	Ultrasensitive and Broadband MoS ₂ Photodetector Driven by Ferroelectrics. <i>Advanced Materials</i> , 2015, 27, 6575-6581.	21.0	722
123	High performance colored selective absorbers for architecturally integrated solar applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7353-7360.	10.3	39
124	Plasmon Resonances in a Stacked Pair of Periodic Graphene Hole Arrays. <i>Plasmonics</i> , 2015, 10, 1695-1702.	3.4	0
125	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
126	Plasmon resonances of terahertz absorption in nano-patterned graphene. , 2015, , .		0

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127	Room-temperature, high-gain, broad-spectrum InAs nanowire infrared photodetectors. , 2015, , .		0
128	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
129	Subwavelength diffraction in a limited number of metal waveguide arrays. Journal of Modern Optics, 2015, 62, 321-326.	1.3	0
130	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
131	Surface Plasmon-Enhanced Photodetection in Few Layer MoS ₂ Phototransistors with Au Nanostructure Arrays. Small, 2015, 11, 2392-2398.	10.0	359
132	Photodetectors: High-Responsivity Graphene/InAs Nanowire Heterojunction Near-Infrared Photodetectors with Distinct Photocurrent On/Off Ratios (Small 8/2015). Small, 2015, 11, 890-890.	10.0	2
133	The calculation about the positions of self-imaging in a limited number of metal waveguide arrays. Optical and Quantum Electronics, 2015, 47, 2391-2398.	3.3	1
134	The inelastic electron tunneling spectroscopy of curved finite-sized graphene nanoribbon based molecular devices. RSC Advances, 2015, 5, 53313-53319.	3.6	0
135	Silane-catalysed fast growth of large single-crystalline graphene on hexagonal boron nitride. Nature Communications, 2015, 6, 6499.	12.8	173
136	Subwavelength focusing by a sheltered metallic waveguide array. Optics Communications, 2015, 349, 151-155.	2.1	1
137	Prediction of half-semiconductor antiferromagnets with vanishing net magnetization. RSC Advances, 2015, 5, 46640-46647.	3.6	21
138	Quantum dot single-photon switches of resonant tunneling current for discriminating-photon-number detection. Scientific Reports, 2015, 5, 9389.	3.3	23
139	Layer-Dependent Dopant Stability and Magnetic Exchange Coupling of Iron-Doped MoS ₂ Nanosheets. ACS Applied Materials & Interfaces, 2015, 7, 7534-7541.	8.0	90
140	Ferromagnetic Resonance Line Shapes in Permalloy Strips at Low Magnetic Fields. IEEE Magnetics Letters, 2015, 6, 1-4.	1.1	0
141	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
142	Surface morphology, composition and wettability Cu ₂ O/CuO composite thin films prepared by a facile hydrothermal method. Applied Physics A: Materials Science and Processing, 2015, 118, 901-906.	2.3	19
143	Second-Order Nonlinearity in Triangular Lattice Perforated Gold Film due to Surface Plasmas Resonance. Scientific World Journal, The, 2014, 2014, 1-6.	2.1	0
144	Effect of solution concentration on surface morphology, chemical composition and photoresponse of CuO/Cu ₂ O composite thin films grown by hydrothermal synthesis. Journal of Materials Science: Materials in Electronics, 2014, 25, 4877-4882.	2.2	4

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145	Nanowires: Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature (Adv. Mater. 48/2014). Advanced Materials, 2014, 26, 8232-8232.	21.0	9
146	Cavity modes in hybrid structure of QWIP and plasmonic cavity. , 2014, , .		0
147	ZnSe-Based Longitudinal Twinning Nanowires. Advanced Engineering Materials, 2014, 16, 459-465.	3.5	18
148	Twisted split-ring chiral metamaterials for broadband circular dichroism. , 2014, , .		0
149	Strong and broadband circular dichroism based on helix-like chiral metamaterials. , 2014, , .		0
150	Influence of water content in mixed solvent on surface morphology, wettability, and photoconductivity of ZnO thin films. Nanoscale Research Letters, 2014, 9, 485.	5.7	13
151	First principles study of half Heusler alloys PdFeBi and PdCoBi. , 2014, , .		1
152	The enhanced infrared absorption of quantum well infrared photodetector based on a hybrid structure of periodic gold stripes overlaid with a gold film. Optics Communications, 2014, 328, 91-95.	2.1	6
153	Simulation of superconducting single photon detector coupled with metal-insulator-metal concentric ring grating. Optical and Quantum Electronics, 2014, 46, 1253-1259.	3.3	4
154	Performance Optimization of InSb Infrared Focal-Plane Arrays with Diffractive Microlenses. Journal of Electronic Materials, 2014, 43, 2795-2801.	2.2	26
155	Effect of solution concentration on surface morphology and photocatalytic activity of ZnO thin films synthesized by hydrothermal methods. Journal of Materials Science: Materials in Electronics, 2014, 25, 882-887.	2.2	10
156	Microwave-Induced DC Response of Spin Wave Resonance Driven by an Anisotropic Built-In Field in a Permalloy Thin Strip. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
157	Study of gain and photoresponse characteristics for back-illuminated separate absorption and multiplication GaN avalanche photodiodes. Journal of Applied Physics, 2014, 115, .	2.5	55
158	Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature. Advanced Materials, 2014, 26, 8203-8209.	21.0	168
159	Effect of edge modification on transport properties of finite-sized, graphene nanoribbon-based molecular devices. RSC Advances, 2014, 4, 52366-52371.	3.6	2
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