

# Shengqiang Zhou

## List of Publications by Year in descending order

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396  
papers

9,780  
citations

41258

49  
h-index

66788

78  
g-index

403  
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403  
docs citations

403  
times ranked

10571  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mid- and far-infrared localized surface plasmon resonances in chalcogen-hyperdoped silicon. <i>Nanoscale</i> , 2022, 14, 2826-2836.	2.8	9
2	Electrical and thermal transport in van der Waals magnets $2\text{H}^{\text{TM}}\text{MxTaS}_2$ (M=Mn, Co). <i>Physical Review Research</i> , 2022, 4, .	1.3	5
3	An effective formaldehyde gas sensor based on oxygen-rich three-dimensional graphene. <i>Nanotechnology</i> , 2022, 33, 185702.	1.3	14
4	Self-Driven Broadband Photodetectors Based on $\text{MoSe}_2/\text{FePS}_3$ van der Waals $n^+p$ Type-II Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 11927-11936.	4.0	35
5	Band transport by large Fröhlich polarons in MXenes. <i>Nature Physics</i> , 2022, 18, 544-550.	6.5	40
6	Tuning of Curie temperature in $\text{Mn}_5\text{Ge}_3$ films. <i>Journal of Applied Physics</i> , 2022, 131, 105102.	1.1	1
7	The Magnetic Genome of Two-Dimensional van der Waals Materials. <i>ACS Nano</i> , 2022, 16, 6960-7079.	7.3	149
8	In-Plane Oriented Two-Dimensional Conjugated Metal-Organic Framework Films for High-Performance Humidity Sensing. , 2022, 4, 1146-1153.		7
9	Single-crystal epitaxial europium iron garnet films with strain-induced perpendicular magnetic anisotropy: Structural, strain, magnetic, and spin transport properties. <i>Physical Review Materials</i> , 2022, 6, .	0.9	7
10	Tunable structural colors in all-dielectric photonic crystals using energetic ion beams. <i>Optics Express</i> , 2022, 30, 23463.	1.7	2
11	Modulating properties by light ion irradiation: From novel functional materials to semiconductor power devices. <i>Journal of Semiconductors</i> , 2022, 43, 063101.	2.0	2
12	Tailored engineering of crystalline surface enabled by ion-irradiation-assisted femtosecond laser ablation. <i>Vacuum</i> , 2022, 204, 111334.	1.6	2
13	Structural and magnetic properties of swift heavy-ion irradiated SiC. <i>Vacuum</i> , 2021, 184, 109849.	1.6	4
14	Sensitivity of PS/CoPd Janus particles to an external magnetic field. <i>RSC Advances</i> , 2021, 11, 17051-17057.	1.7	2
15	Magnetic properties of biogenic selenium nanomaterials. <i>Environmental Science and Pollution Research</i> , 2021, 28, 40264-40274.	2.7	6
16	Two-dimensional magneto-photoconductivity in non-van der Waals manganese selenide. <i>Materials Horizons</i> , 2021, 8, 1286-1296.	6.4	43
17	Defective Nanographenes Containing Seven-Five-Seven (7-5-7)-Membered Rings. <i>Journal of the American Chemical Society</i> , 2021, 143, 2353-2360.	6.6	62
18	Phase Selection in Mn-Si Alloys by Fast Solid-State Reaction with Enhanced Skyrmion Stability. <i>Advanced Functional Materials</i> , 2021, 31, 2009723.	7.8	9

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19	Domain-Wall Damping in Ultrathin Nanostripes with Dzyaloshinskii-Moriya Interaction. <i>Physical Review Applied</i> , 2021, 15, .	1.5	5
20	Microwave-Assisted Spectroscopy of Vacancy-Related Spin Centers in Hexagonal $\text{SiC}$ . <i>Physical Review Applied</i> , 2021, 15, .	1.5	4
21	Three-dimensional ferromagnetism and magnetotransport in van der Waals Mn-intercalated tantalum disulfide. <i>Physical Review B</i> , 2021, 103, .	1.1	12
22	Structure and luminescence of a-plane GaN on r-plane sapphire substrate modified by Si implantation*. <i>Chinese Physics B</i> , 2021, 30, 056104.	0.7	1
23	Morphology-Tunable Synthesis of Intrinsic Room-Temperature Ferromagnetic $\text{Fe}_2\text{O}_3$ Nanoflakes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 24051-24061.	4.0	15
24	Effect of silver ion implantation on antibacterial ability of polyethylene food packing films. <i>Food Packaging and Shelf Life</i> , 2021, 28, 100650.	3.3	10
25	Magnetic critical behavior and anomalous Hall effect in $2\text{H-NbS}_2$ single crystals. <i>Physical Review Research</i> , 2021, 3, .	1.1	1
26	Room temperature ferromagnetism in Sb doped ZnO. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 529, 167908.	1.0	3
27	Enhanced Trion Emission in Monolayer $\text{MoSe}_2$ by Constructing a Type-II Van Der Waals Heterostructure. <i>Advanced Functional Materials</i> , 2021, 31, 2104960.	7.8	21
28	Interfacial Synthesis of Layer-Oriented 2D Conjugated Metal-Organic Framework Films toward Directional Charge Transport. <i>Journal of the American Chemical Society</i> , 2021, 143, 13624-13632.	6.6	36
29	B20-type FeGe on Ge(1 0 0) prepared by pulsed laser melting. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 532, 167981.	1.0	1
30	Increased dephasing length in heavily doped GaAs. <i>New Journal of Physics</i> , 2021, 23, 083034.	1.2	1
31	Strain-induced switching between noncollinear and collinear spin configuration in magnetic $\text{Mn}_5\text{Si}_7$ films. <i>Physical Review B</i> , 2021, 104, .	1.1	7
32	B20-MnSi films grown on Si(100) substrates with magnetic skyrmion signature. <i>Materials Today Physics</i> , 2021, 21, 100541.	2.9	2
33	Metal-Insulator Transition via Ion Irradiation in Epitaxial $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Thin Films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100278.	1.2	2
34	Experimental and numerical investigations of Ni-Co-SiO <sub>2</sub> alloy films deposited by magnetic-field-assisted jet plating. <i>Surface and Coatings Technology</i> , 2021, 423, 127583.	2.2	11
35	Phase evolution of Te-hyperdoped Si upon furnace annealing. <i>Applied Surface Science</i> , 2021, 567, 150755.	3.1	6
36	High-entropy carbons: From high-entropy aromatic species to single-atom catalysts for electrocatalysis. <i>Chemical Engineering Journal</i> , 2021, 426, 131320.	6.6	14

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37	Chlorine doping of MoSe <sub>2</sub> flakes by ion implantation. <i>Nanoscale</i> , 2021, 13, 5834-5846.	2.8	21
38	Silicon-Based Intermediate-Band Infrared Photodetector Realized by Te Hyperdoping. <i>Advanced Optical Materials</i> , 2021, 9, 2001546.	3.6	19
39	Obvious phase transition status induced by He <sup>+</sup> -ions implantation in KTN crystal. <i>Acta Materialia</i> , 2021, 221, 117376.	3.8	8
40	Electrical Characterization of Germanium Nanowires Using a Symmetric Hall Bar Configuration: Size and Shape Dependence. <i>Nanomaterials</i> , 2021, 11, 2917.	1.9	5
41	Q-switched mode-locked laser generation by Au nanoparticles embedded in LiTaO <sub>3</sub> crystals. <i>Optical Materials</i> , 2021, 122, 111714.	1.7	2
42	Migration Kinetics of Surface Ions in Oxygen-Deficient Perovskite During Topotactic Transitions. <i>Small</i> , 2021, 17, e2104356.	5.2	6
43	Migration Kinetics of Surface Ions in Oxygen-Deficient Perovskite During Topotactic Transitions (Small 51/2021). <i>Small</i> , 2021, 17, .	5.2	0
44	Coherent Epitaxial Semiconductor/Ferromagnetic Insulator InAs/EuS Interfaces: Band Alignment and Magnetic Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8780-8787.	4.0	23
45	Efficient Modulation of Photonic Bandgap and Defect Modes in All-Dielectric Photonic Crystals by Energetic Ion Beams. <i>Advanced Optical Materials</i> , 2020, 8, 2000426.	3.6	22
46	Current Transport Mechanisms in Zinc Oxide/Silicon Carbide Heterojunction Light-Emitting Diodes. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2000133.	0.7	5
47	Critical behavior of the insulator-to-metal transition in Te-hyperdoped Si. <i>Physical Review B</i> , 2020, 102, .	1.1	8
48	High-Mobility Semiconducting Two-Dimensional Conjugated Covalent Organic Frameworks with <i>p</i> -Type Doping. <i>Journal of the American Chemical Society</i> , 2020, 142, 21622-21627.	6.6	113
49	Studying Properties of Defects. , 2020, , 1-20.		0
50	Wafer-scale 4H-silicon carbide-on-insulator (4H-SiCOI) platform for nonlinear integrated optical devices. <i>Optical Materials</i> , 2020, 107, 109990.	1.7	40
51	Yu-Shiba-Rusinov bands in ferromagnetic superconducting diamond. <i>Science Advances</i> , 2020, 6, eaaz2536.	4.7	9
52	Ferromagnetism in undoped ZnO grown by pulsed laser deposition. <i>Materials Research Express</i> , 2020, 7, 056102.	0.8	3
53	Phthalocyanine-Based 2D Conjugated Metal-Organic Framework Nanosheets for High-Performance Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 2002664.	7.8	104
54	An infrared transmission study of Ge:Mn thick films prepared by ion implantation and post-annealing. <i>Journal of Applied Physics</i> , 2020, 127, 103902.	1.1	1

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55	Enhanced room temperature ferromagnetism in MoS <sub>2</sub> by N plasma treatment. AIP Advances, 2020, 10, .	0.6	6
56	3D-Ising critical behavior in antiperovskite-type ferromagneticlike Mn <sub>3</sub> GaN. Journal of Applied Physics, 2020, 127, 073903.	1.1	0
57	Diamond-blade diced trapezoidal ridge waveguides in YCOB crystal for second harmonic generation. Optics and Laser Technology, 2020, 126, 106128.	2.2	5
58	Ion-Irradiation-Induced Cobalt/Cobalt Oxide Heterostructures: Printing 3D Interfaces. ACS Applied Materials & Interfaces, 2020, 12, 9858-9864.	4.0	5
59	Influence of Irradiation on Defect Spin Coherence in Silicon Carbide. Physical Review Applied, 2020, 13, .	1.5	36
60	Formation of Thin NiGe Films by Magnetron Sputtering and Flash Lamp Annealing. Nanomaterials, 2020, 10, 648.	1.9	3
61	Local vibrational modes of Si vacancy spin qubits in SiC. Physical Review B, 2020, 101, .	1.1	25
62	Electron Concentration Limit in Ge Doped by Ion Implantation and Flash Lamp Annealing. Materials, 2020, 13, 1408.	1.3	6
63	Para-ferroelectric phase transition driven by swift heavy-ion irradiation in KTN crystal. Applied Surface Science, 2020, 519, 146261.	3.1	9
64	Tailoring Magnetic Features in Zigzag-Edged Nanographenes by Controlled Diels-Alder Reactions. Chemistry - A European Journal, 2020, 26, 7497-7503.	1.7	17
65	Ultrathin two-dimensional conjugated metal-organic framework single-crystalline nanosheets enabled by surfactant-assisted synthesis. Chemical Science, 2020, 11, 7665-7671.	3.7	82
66	Topological Hall Effect in Single Thick SrRuO <sub>3</sub> Layers Induced by Defect Engineering. Advanced Electronic Materials, 2020, 6, 2000184.	2.6	24
67	Magneto-structural correlations in a systematically disordered B2 lattice. New Journal of Physics, 2020, 22, 073004.	1.2	14
68	Dissolution of donor-vacancy clusters in heavily doped n-type germanium. New Journal of Physics, 2020, 22, 123036.	1.2	4
69	Band gap renormalization in n-type GeSn alloys made by ion implantation and flash lamp annealing. Journal of Applied Physics, 2019, 125, .	1.1	9
70	A semiconducting layered metal-organic framework magnet. Nature Communications, 2019, 10, 3260.	5.8	119
71	Spatial solitons in KTa <sub>x</sub> Nb <sub>1-x</sub> O <sub>3</sub> waveguides produced by swift carbon ion irradiation and femtosecond laser ablation. Applied Physics Express, 2019, 12, 076502.	1.1	11
72	Nanoscale n++-p junction formation in GeOI probed by tip-enhanced Raman spectroscopy and conductive atomic force microscopy. Journal of Applied Physics, 2019, 125, 245703.	1.1	5

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73	Monolithic waveguide laser mode-locked by embedded Ag nanoparticles operating at 1 $\mu$ m. <i>Nanophotonics</i> , 2019, 8, 859-868.	2.9	26
74	Direct Synthesis of Large-Scale Multilayer TaSe <sub>2</sub> on SiO <sub>2</sub> /Si Using Ion Beam Technology. <i>ACS Omega</i> , 2019, 4, 17536-17541.	1.6	6
75	A bimodal soft electronic skin for tactile and touchless interaction in real time. <i>Nature Communications</i> , 2019, 10, 4405.	5.8	188
76	Unveiling Electronic Properties in Metal-Phthalocyanine-Based Pyrazine-Linked Conjugated Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 16810-16816.	6.6	227
77	Ferromagnetic (In,Ca,Mn)As films prepared by ion implantation and pulsed laser melting. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 442, 31-35.	0.6	0
78	Proton irradiation induced defects in $\beta$ -Ga <sub>2</sub> O <sub>3</sub> : A combined EPR and theory study. <i>APL Materials</i> , 2019, 7, .	2.2	48
79	Compliance-current-modulated resistive switching with multi-level resistance states in single-crystalline LiNbO <sub>3</sub> thin film. <i>Solid State Ionics</i> , 2019, 334, 1-4.	1.3	4
80	Defect-induced magnetism in SiC. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 393001.	1.3	13
81	The role of open-volume defects in the annihilation of antisites in a B2-ordered alloy. <i>Acta Materialia</i> , 2019, 176, 167-176.	3.8	14
82	Absorption edge, Urbach tail, and electron-phonon interactions in topological insulator Bi <sub>2</sub> Se <sub>3</sub> and band insulator (Bi <sub>0.89</sub> In <sub>0.11</sub> ) <sub>2</sub> Se <sub>3</sub> . <i>Applied Physics Letters</i> , 2019, 114, .	1.5	10
83	Hole compensation effect in III-Mn-V dilute ferromagnetic semiconductors. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 355301.	1.3	1
84	Breaking the Doping Limit in Silicon by Deep Impurities. <i>Physical Review Applied</i> , 2019, 11, .	1.5	44
85	Optical properties of ZnS <sub>x</sub> Te <sub>1-x</sub> synthesized by sulfur implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 442, 24-27.	0.6	0
86	Controllable defect driven symmetry change and domain structure evolution in BiFeO <sub>3</sub> with enhanced tetragonality. <i>Nanoscale</i> , 2019, 11, 8110-8118.	2.8	22
87	Wave-shaped polycyclic hydrocarbons with controlled aromaticity. <i>Chemical Science</i> , 2019, 10, 4025-4031.	3.7	35
88	Double-peak specific heat and spin freezing in the spin-2 triangular lattice antiferromagnet $\text{FeAl}_{12}\text{Mn}$ . <i>Physical Review B</i> , 2019, 99, .		
89	Determination of electron effective mass in InN by cyclotron resonance spectroscopy. <i>Superlattices and Microstructures</i> , 2019, 136, 106318.	1.4	1
90	Formation and Characterization of Shallow Junctions in GaAs Made by Ion Implantation and ms-Range Flash Lamp Annealing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800618.	0.8	3

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91	Structural and optical properties of pulsed-laser deposited crystalline $\text{In}^{2+}\text{-Ga}_2\text{O}_3$ thin films on silicon. Semiconductor Science and Technology, 2019, 34, 035001.	1.0	39
92	Ultra-fast annealing manipulated spinodal nano-decomposition in Mn-implanted Ge. Nanotechnology, 2019, 30, 054001.	1.3	6
93	Anisotropic magnetic entropy change in $\text{Cr}_2\text{Si}_5\text{N}_8$ . Physical Review Materials, 2019, 3, .	0.9	53
94	Thermal stability of Te-hyperdoped Si: Atomic-scale correlation of the structural, electrical, and optical properties. Physical Review Materials, 2019, 3, .	0.9	13
95	Tunable disorder and localization in the rare-earth nickelates. Physical Review Materials, 2019, 3, .	0.9	8
96	Superconductivity in single-crystalline aluminum- and gallium-hyperdoped germanium. Physical Review Materials, 2019, 3, .	0.9	7
97	$p$ -type codoping effect in $(\text{Ga},\text{Mn})\text{As}$ : Mn lattice location versus magnetic properties. Physical Review Materials, 2019, 3, .	0.9	2
98	Critical behavior of intercalated quasi-van der Waals ferromagnet $\text{TaF}_2\text{S}_2$ . Physical Review Materials, 2019, 3, .	0.9	29
99	Tuning the metal-insulator transition in epitaxial $\text{SrVO}_3$ films by uniaxial strain. Physical Review Materials, 2019, 3, .	0.9	18
100	Resistive Switching Tuning Ferromagnetism and Near Band Edge Emission in Metal/ $\text{ZnO}:\text{Cu}^n$ / $\text{ZnO}:\text{Ga}/\text{c-Sapphire}$ Structure. Acta Physica Polonica A, 2019, 136, 122-126.	0.2	0
101	Electronic phase separation in insulating $(\text{Ga}, \text{Mn}) \text{As}$ with low compensation: super-paramagnetism and hopping conduction. Journal of Physics Condensed Matter, 2018, 30, 095801.	0.7	5
102	Switching the uniaxial magnetic anisotropy by ion irradiation induced compensation. Journal Physics D: Applied Physics, 2018, 51, 145001.	1.3	6
103	Heavy doping of CdTe single crystals by Cr ion implantation. Nuclear Instruments & Methods in Physics Research B, 2018, 419, 26-31.	0.6	3
104	<i>Ex situ</i> $n^+p^+$ doping of GeSn alloys via non-equilibrium processing. Semiconductor Science and Technology, 2018, 33, 065008.	1.0	13
105	CMOS-compatible Controlled Hyperdoping of Silicon Nanowires. Advanced Materials Interfaces, 2018, 5, 1800101.	1.9	11
106	Structural and electrical properties of Se-hyperdoped Si via ion implantation and flash lamp annealing. Nuclear Instruments & Methods in Physics Research B, 2018, 424, 52-55.	0.6	5
107	Investigation of a possible electronic phase separation in the magnetic semiconductors $\text{Ga}_1\text{Mn}$ and $\text{Ga}_1\text{Mn}$ . Physical Review B, 2018, 97, .	1.1	6
108	Glassy formation ability, magnetic properties and magnetocaloric effect in Al <sub>27</sub> Cu <sub>18</sub> Er <sub>55</sub> amorphous ribbon. Journal of Magnetism and Magnetic Materials, 2018, 454, 121-124.	1.0	5

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109	Three-dimensional magnetic critical behavior in $\text{Cr}_3\text{Si}$ . Physical Review B, 2018, 97, .	2.8	53
110	Plasmonic nanoparticles embedded in single crystals synthesized by gold ion implantation for enhanced optical nonlinearity and efficient Q-switched lasing. Nanoscale, 2018, 10, 4228-4236.	1.6	17
111	On the insulator-to-metal transition in titanium-implanted silicon. Scientific Reports, 2018, 8, 4164.	0.8	14
112	Fabrication of Y128- and Y36-cut lithium niobate single-crystalline thin films by crystal-ion-slicing technique. Japanese Journal of Applied Physics, 2018, 57, 04FK05.	1.3	0
113	Activation of acceptor levels in Mn implanted Si by pulsed laser annealing. Journal Physics D: Applied Physics, 2018, 51, 165304.	1.0	4
114	Magneto-optical spectroscopy of diluted magnetic semiconductors GaMnAs prepared by ion implantation and further impulse laser annealing. Journal of Magnetism and Magnetic Materials, 2018, 459, 141-146.	1.0	4
115	p-type co-doping effect of (Ga,Mn)P: Magnetic and magneto-transport properties. Journal of Magnetism and Magnetic Materials, 2018, 459, 102-105.	4.1	132
116	Achievement of a table-like magnetocaloric effect in the dual-phase $\text{ErZn}_2/\text{ErZn}$ composite. Materials Research Letters, 2018, 6, 67-71.	3.1	28
117	Surface modifications of crystal-ion-sliced $\text{LiNbO}_3$ thin films by low energy ion irradiations. Applied Surface Science, 2018, 434, 669-673.	1.0	4
118	Engineering of high-temperature ferromagnetic $\text{Si}_{1-x}\text{Mn}_x$ ( $x \approx 0.5$ ) alloyed films by pulsed laser deposition: Effect of laser fluence. Journal of Magnetism and Magnetic Materials, 2018, 459, 206-210.	2.7	5
119	Transition from antiferromagnetic ground state to robust ferrimagnetic order with Curie temperatures above 420 K in manganese-based antiperovskite-type structures. Journal of Materials Chemistry C, 2018, 6, 13336-13344.	0.2	2
120	Effect of Laser Fluence on Magnetic Properties of Thin $\text{Mn}_x\text{Si}_{1-x}$ ( $x \approx 0.5$ ) Films Prepared by Pulsed Laser Deposition. Physics of the Solid State, 2018, 60, 2188-2193.	0.1	1
121	Ab-initio study of electronic and magneto-optical properties of $\text{InAs:Mn}$ . EPJ Web of Conferences, 2018, 185, 06008.	1.1	20
122	Magnetocrystalline anisotropy and exchange probed by high-field anomalous Hall effect in fully compensated half-metallic $\text{Mn}_2\text{Ge}$ thin films. Physical Review B, 2018, 98, .	1.5	17
123	$\text{Sn}$ Alloys via $\text{Mn}_2\text{Ge}$ thin films. Physical Review B, 2018, 98, .	1.5	14
124	Epitaxial $\text{Mn}_5\text{Ge}_3$ (100) layer on Ge (100) substrates obtained by flash lamp annealing. Applied Physics Letters, 2018, 113, .	1.3	26
125	Efficient ion-slicing of $\text{InP}$ thin film for Si-based hetero-integration. Nanotechnology, 2018, 29, 504002.	1.3	5
126	Equiatomic quinary rare-earth rich amorphous ribbons with excellent magnetocaloric performance. Materialia, 2018, 3, 74-78.		



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127	Defects in hydrogen implanted SiC. Nuclear Instruments & Methods in Physics Research B, 2018, 436, 107-111.	0.6	10
128	Formation of n- and p-type regions in individual Si/SiO <sub>2</sub> core/shell nanowires by ion beam doping. Nanotechnology, 2018, 29, 474001.	1.3	6
129	Extended Infrared Photoresponse in $\text{Te}$ -Hyperdoped Si at Room Temperature. Physical Review Applied, 2018, 10, .	1.5	45
130	Enhancing the magnetic moment of ferrimagnetic NiCo <sub>2</sub> O <sub>4</sub> via ion irradiation driven oxygen vacancies. APL Materials, 2018, 6, .	2.2	21
131	Defect-Induced Exchange Bias in a Single SrRuO <sub>3</sub> Layer. ACS Applied Materials & Interfaces, 2018, 10, 27472-27476.	4.0	22
132	A coronene-based semiconducting two-dimensional metal-organic framework with ferromagnetic behavior. Nature Communications, 2018, 9, 2637.	5.8	210
133	Critical behavior and magnetocaloric effect in $\text{Mn}_2\text{B}$ . Physical Review B, 2018, 98, .		
134	Ag nanoparticles embedded in Nd:YAG crystals irradiated with tilted beam of 200 MeV Xe ions: optical dichroism correlated to particle reshaping. Nanotechnology, 2018, 29, 424001.	1.3	5
135	Irradiation effects on the structural and optical properties of single crystal $\text{In}^{12}\text{-Ga}_2\text{O}_3$ . Semiconductor Science and Technology, 2018, 33, 095022.	1.0	30
136	Lithium Niobate Crystal with Embedded Au Nanoparticles: A New Saturable Absorber for Efficient Mode-Locking of Ultrafast Laser Pulses at 1 $\mu\text{m}$ . Advanced Optical Materials, 2018, 6, 1800357.	3.6	41
137	Large refrigerant capacity induced by table-like magnetocaloric effect in amorphous $\text{Er}_{0.2}\text{Gd}_{0.2}\text{Ho}_{0.2}\text{Co}_{0.2}\text{Cu}_{0.2}$ ribbons. Materials Research Letters, 2018, 6, 413-418.	4.1	75
138	Nematicity of correlated systems driven by anisotropic chemical phase separation. Physical Review Materials, 2018, 2, .	0.9	9
139	Charge Carrier Dynamics in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ Studied by Resistance Noise Spectroscopy. Acta Physica Polonica A, 2018, 133, 520-522.	0.2	0
140	Magnetic anisotropy of polycrystalline high-temperature ferromagnetic $\text{Mn}_x\text{Si}_{1-x}$ alloy films. Journal of Magnetism and Magnetic Materials, 2017, 429, 305-313.	1.0	5
141	Observation of large magnetocaloric effect in equiatomic binary compound ErZn. AIP Advances, 2017, 7, .	0.6	6
142	Continuous-Wave and Q-Switched Yb:YSGG Waveguide Laser. Journal of Lightwave Technology, 2017, 35, 2642-2645.	2.7	8
143	Defect-induced magnetism in SiC probed by nuclear magnetic resonance. Physical Review B, 2017, 95, .	1.1	8
144	Ridge Waveguides and Y-Branch Beam Splitters in $\text{KTiOAsO}_4$ Crystal by 15 MeV Oxygen Ion Implantation and Femtosecond Laser Ablation. Journal of Lightwave Technology, 2017, 35, 225-229.	2.7	20

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145	Superconducting Ferromagnetic Nanodiamond. ACS Nano, 2017, 11, 5358-5366.	7.3	25
146	Tailoring the optical properties of atomically-thin WS <sub>2</sub> via ion irradiation. Nanoscale, 2017, 9, 11027-11034.	2.8	84
147	Giant Enhancement of Nonlinear Optical Response in Nd:YAG Single Crystals by Embedded Silver Nanoparticles. ACS Omega, 2017, 2, 1279-1286.	1.6	32
148	Room-temperature short-wavelength infrared Si photodetector. Scientific Reports, 2017, 7, 43688.	1.6	79
149	Efficient Second Harmonic Generation of Diced Ridge Waveguides Based on Carbon Ion-Irradiated Periodically Poled LiNbO <sub>3</sub> . Journal of Lightwave Technology, 2017, 35, 2476-2480.	2.7	10
150	Annealing effect on ferromagnetic properties, hole concentration and electronic band structure of GaMnAs epitaxial layers. Journal of Materials Science: Materials in Electronics, 2017, 28, 17622-17626.	1.1	2
151	In situ ohmic contact formation for n-type Ge via non-equilibrium processing. Semiconductor Science and Technology, 2017, 32, 115006.	1.0	10
152	Interaction between magnetic moments and itinerant carriers in doped ferromagnetic SiC. Physical Review B, 2017, 95, .	1.1	17
153	Engineering of optical and electrical properties of ZnO by non-equilibrium thermal processing: The role of zinc interstitials and zinc vacancies. Journal of Applied Physics, 2017, 122, 035303.	1.1	17
154	Realizing the insulator-to-metal transition in Se-hyperdoped Si via non-equilibrium material processing. Journal Physics D: Applied Physics, 2017, 50, 415102.	1.3	11
155	Critical behavior of quasi-two-dimensional semiconducting ferromagnet Cr <sub>2</sub> As <sub>2</sub> . Physical Review B, 2017, 96, .	1.3	9
156	Coupling of ferromagnetism and structural phase transition in V <sub>2</sub> O <sub>3</sub> /Co bilayers. Journal Physics D: Applied Physics, 2017, 50, 495002.	1.3	9
157	Monovacancy paramagnetism in neutron-irradiated graphite probed by <sup>13</sup> C NMR. Journal of Physics Condensed Matter, 2017, 29, 465801.	0.7	1
158	Critical behavior of the van der Waals bonded ferromagnet Fe <sub>3</sub> As <sub>3</sub> . Physical Review B, 2017, 96, .	0.7	27
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