

# Shengqiang Zhou

## List of Publications by Year in descending order

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396  
papers

9,780  
citations

41258

49  
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66788

78  
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403  
all docs

403  
docs citations

403  
times ranked

10571  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room temperature ferromagnetism in ZnO films due to defects. Applied Physics Letters, 2008, 92, 082508.	1.5	329
2	Unveiling Electronic Properties in Metal-Phthalocyanine-Based Pyrazine-Linked Conjugated Two-Dimensional Covalent Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 16810-16816.	6.6	227
3	A coronene-based semiconducting two-dimensional metal-organic framework with ferromagnetic behavior. Nature Communications, 2018, 9, 2637.	5.8	210
4	Room temperature ferromagnetism in carbon-implanted ZnO. Applied Physics Letters, 2008, 93, .	1.5	188
5	A bimodal soft electronic skin for tactile and touchless interaction in real time. Nature Communications, 2019, 10, 4405.	5.8	188
6	Origin of magnetic moments in defective $\text{TiO}_2$ crystals. Physical Review B, 2009, 79, .	1.1	176
7	Crystallographically oriented Co and Ni nanocrystals inside ZnO formed by ion implantation and postannealing. Physical Review B, 2008, 77, .	1.1	166
8	The Magnetic Genome of Two-Dimensional van der Waals Materials. ACS Nano, 2022, 16, 6960-7079.	7.3	149
9	Defect-Induced Magnetism in Neutron Irradiated $6\text{H-SiC}$ Single Crystals. Physical Review Letters, 2011, 106, 087205.	2.9	143
10	Achievement of a table-like magnetocaloric effect in the dual-phase $\text{ErZn}_2/\text{ErZn}$ composite. Materials Research Letters, 2018, 6, 67-71.	4.1	132
11	Radiation tolerance of Cu/W multilayered nanocomposites. Journal of Nuclear Materials, 2011, 413, 11-15.	1.3	125
12	A semiconducting layered metal-organic framework magnet. Nature Communications, 2019, 10, 3260.	5.8	119
13	Structural and magnetic properties of Mn-implanted Si. Physical Review B, 2007, 75, .	1.1	118
14	Nonvolatile bipolar resistive switching in Au/BiFeO <sub>3</sub> /Pt. Journal of Applied Physics, 2011, 109, 124117.	1.1	116
15	High-Mobility Semiconducting Two-Dimensional Conjugated Covalent Organic Frameworks with <i>p</i> -Type Doping. Journal of the American Chemical Society, 2020, 142, 21622-21627.	6.6	113
16	Decisive role of oxygen vacancy in ferroelectric versus ferromagnetic Mn-doped BaTiO <sub>3</sub> thin films. Journal of Applied Physics, 2011, 109, .	1.1	112
17	Fe implanted ferromagnetic ZnO. Applied Physics Letters, 2006, 88, 052508.	1.5	110
18	Critical size for exchange bias in ferromagnetic-antiferromagnetic particles. Applied Physics Letters, 2005, 87, 012501.	1.5	108

#	ARTICLE	IF	CITATIONS
19	LiPON thin films with high nitrogen content for application in lithium batteries and electrochromic devices prepared by RF magnetron sputtering. <i>Solid State Ionics</i> , 2015, 282, 63-69.	1.3	108
20	Ferromagnetic Gd-implanted ZnO single crystals. <i>Journal of Applied Physics</i> , 2006, 99, 063906.	1.1	107
21	Phthalocyanine-Based 2D Conjugated Metal-Organic Framework Nanosheets for High-Performance Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 2002664.	7.8	104
22	4H-SiC: a new nonlinear material for midinfrared lasers. <i>Laser and Photonics Reviews</i> , 2013, 7, 831-838.	4.4	99
23	Advanced spectroscopic synchrotron techniques to unravel the intrinsic properties of dilute magnetic oxides: the case of Co:ZnO. <i>New Journal of Physics</i> , 2010, 12, 013020.	1.2	89
24	Critical behavior of quasi-two-dimensional semiconducting ferromagnet $\text{Cr}_2\text{S}_3$ . <i>Physical Review B</i> , 2017, 96, .	2.1	86
25	High-Electron-Mobility InN Layers Grown by Boundary-Temperature-Controlled Epitaxy. <i>Applied Physics Express</i> , 2012, 5, 015502.	1.1	84
26	Tailoring the optical properties of atomically-thin $\text{WS}_2$ via ion irradiation. <i>Nanoscale</i> , 2017, 9, 11027-11034.	2.8	84
27	Ultrathin two-dimensional conjugated metal-organic framework single-crystalline nanosheets enabled by surfactant-assisted synthesis. <i>Chemical Science</i> , 2020, 11, 7665-7671.	3.7	82
28	Room-temperature short-wavelength infrared Si photodetector. <i>Scientific Reports</i> , 2017, 7, 43688.	1.6	79
29	Giant low field magnetocaloric effect and field-induced metamagnetic transition in TmZn. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	76
30	Three-dimensional magnetic critical behavior in $\text{CrI}_3$ . <i>Physical Review B</i> , 2018, 97, .	1.4	76
31	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. <i>Materials Research Letters</i> , 2018, 6, 413-418.	4.1	75
32	Magnetic properties of ZnO nanopowders. <i>Journal of Alloys and Compounds</i> , 2009, 487, 665-667.	2.8	66
33	Ultra-doped n-type germanium thin films for sensing in the mid-infrared. <i>Scientific Reports</i> , 2016, 6, 27643.	1.6	64
34	Critical behavior of the van der Waals bonded ferromagnet $\text{Fe}_3\text{S}_2$ . <i>Physical Review B</i> , 2017, 96, .	1.6	63
35	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
36	Spin Manipulation in Co-Doped ZnO. <i>Physical Review Letters</i> , 2008, 101, 076601.	2.9	61



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55	Extended Infrared Photoresponse in $\text{Te}$ -Hyperdoped $\text{Si}$ at Room Temperature. <i>Physical Review Applied</i> , 2018, 10, .	1.5	45
56	High-precision determination of lattice constants and structural characterization of InN thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 275-279.	0.9	44
57	Breaking the Doping Limit in Silicon by Deep Impurities. <i>Physical Review Applied</i> , 2019, 11, .	1.5	44
58	Two-dimensional magneto-photoconductivity in non-van der Waals manganese selenide. <i>Materials Horizons</i> , 2021, 8, 1286-1296.	6.4	43
59	Crystallographically oriented Fe nanocrystals formed in Fe-implanted TiO <sub>2</sub> . <i>Journal of Applied Physics</i> , 2008, 103, 083907.	1.1	42
60	Ferromagnetic transition metal implanted ZnO: A diluted magnetic semiconductor?. <i>Vacuum</i> , 2009, 83, S13-S19.	1.6	42
61	Guided continuous-wave and graphene-based Q-switched lasers in carbon ion irradiated Nd:YAG ceramic channel waveguide. <i>Optics Express</i> , 2014, 22, 3572.	1.7	42
62	Q-switched waveguide laser based on two-dimensional semiconducting materials: tungsten disulfide and black phosphorous. <i>Optics Express</i> , 2016, 24, 2858.	1.7	41
63	Lithium Niobate Crystal with Embedded Au Nanoparticles: A New Saturable Absorber for Efficient Mode-Locking of Ultrafast Laser Pulses at 1 $\mu\text{m}$ . <i>Advanced Optical Materials</i> , 2018, 6, 1800357.	3.6	41
64	Magnetic interactions in BiFe <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3</sub> films and BiFeO <sub>3</sub> /BiMnO <sub>3</sub> superlattices. <i>Scientific Reports</i> , 2015, 5, 9093.	1.6	40
65	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
66	Band transport by large Fröhlich polarons in MXenes. <i>Nature Physics</i> , 2022, 18, 544-550.	6.5	40
67	Reduced leakage current in BiFeO <sub>3</sub> thin films with rectifying contacts. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	39
68	Structural and optical properties of pulsed-laser deposited crystalline $\text{In}^{2+}\text{-Ga}_2\text{O}_3$ thin films on silicon. <i>Semiconductor Science and Technology</i> , 2019, 34, 035001.	1.0	39
69	Paramagnetism in Co-doped ZnO films. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 085001.	1.3	38
70	Nd:YAG waveguide laser Q-switched by evanescent-field interaction with graphene. <i>Optics Express</i> , 2014, 22, 9101.	1.7	38
71	Carbon p Electron Ferromagnetism in Silicon Carbide. <i>Scientific Reports</i> , 2015, 5, 8999.	1.6	38
72	Ferromagnetism and suppression of metallic clusters in Fe implanted ZnO: a phenomenon related to defects?. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 105011.	1.3	37

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73	Using x-ray diffraction to identify precipitates in transition metal doped semiconductors. Journal of Applied Physics, 2008, 103, 07D530.	1.1	37
74	Bi <sub>2</sub> Se <sub>3</sub> -Q-switched Nd:YAG ceramic waveguide laser. Optics Letters, 2015, 40, 637.	1.7	37
75	Influence of vanadium concentration on the microstructure and magnetic properties of V-doped ZnO thin films. Thin Solid Films, 2010, 518, 5505-5508.	0.8	36
76	Ridge waveguide lasers in Nd:GGG crystals produced by swift carbon ion irradiation and femtosecond laser ablation. Optics Express, 2012, 20, 9763.	1.7	36
77	Influence of Irradiation on Defect Spin Coherence in Silicon Carbide. Physical Review Applied, 2020, 13, .	1.5	36
78	Interfacial Synthesis of Layer-Oriented 2D Conjugated Metal-Organic Framework Films toward Directional Charge Transport. Journal of the American Chemical Society, 2021, 143, 13624-13632.	6.6	36
79	Absence of ferromagnetism in V-implanted ZnO single crystals. Journal of Applied Physics, 2007, 101, 09H109.	1.1	35
80	Electronic and magnetic structure of $R\text{ScO}$ from x-ray spectroscopies and first-principles calculations. Physical Review B, 2009, 79, .	1.1	35
81	Adjustable nitrogen-vacancy induced magnetism in AlN. Applied Physics Letters, 2012, 100, .	1.5	35
82	Wave-shaped polycyclic hydrocarbons with controlled aromaticity. Chemical Science, 2019, 10, 4025-4031.	3.7	35
83	Self-Driven Broadband Photodetectors Based on MoSe <sub>2</sub> /FePS <sub>3</sub> van der Waals n-p Type-II Heterostructures. ACS Applied Materials & Interfaces, 2022, 14, 11927-11936.	4.0	35
84	Spinel ferrite nanocrystals embedded inside ZnO: Magnetic, electronic, and magnetotransport properties. Physical Review B, 2009, 80, .	1.1	33
85	Cluster spin glass behavior in Bi(Fe <sub>0.95</sub> Co <sub>0.05</sub> )O <sub>3</sub> . Journal of Applied Physics, 2010, 107, 093920.	1.1	33
86	Mn-doped Ge and Si: A Review of the Experimental Status. Materials, 2010, 3, 5054-5082.	1.3	32
87	Giant Enhancement of Nonlinear Optical Response in Nd:YAG Single Crystals by Embedded Silver Nanoparticles. ACS Omega, 2017, 2, 1279-1286.	1.6	32
88	Defect-induced magnetism in SiC: Interplay between ferromagnetism and paramagnetism. Physical Review B, 2015, 92, .	1.1	31
89	Formation of InAs quantum dots in silicon by sequential ion implantation and flash lamp annealing. Applied Physics B: Lasers and Optics, 2010, 101, 315-319.	1.1	30
90	Room temperature transparent ferromagnetism in 200 keV Ni <sup>2+</sup> ion implanted pulsed laser deposition grown ZnO/sapphire film. Journal of Applied Physics, 2010, 107, .	1.1	30

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91	Swift carbon ion irradiated Nd:YAG ceramic optical waveguide amplifier. Optics Express, 2013, 21, 13992.	1.7	30
92	Nonvolatile Multilevel Resistive Switching in $\text{Ar}^+$ Irradiated $\text{BiFeO}_3$ Thin Films. IEEE Electron Device Letters, 2013, 34, 54-56.	2.2	30
93	SHI induced enhancement in green emission from nanocrystalline CdS thin films for photonic applications. Journal of Luminescence, 2014, 147, 184-189.	1.5	30
94	Magnetic phase transitions and large magnetic entropy change with a wide temperature span in HoZn. Journal of Alloys and Compounds, 2015, 643, 147-151.	2.8	30
95	Rectifying filamentary resistive switching in ion-exfoliated LiNbO3 thin films. Applied Physics Letters, 2016, 108, .	1.5	30
96	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
97	Critical behavior of intercalated quasi-van der Waals ferromagnet $F_e\text{Ta}^{0.9}\text{S}_2$ . Physical Review Materials, 2019, 3, .		
98	Resistive switching behavior in single crystal SrTiO3 annealed by laser. Applied Surface Science, 2016, 389, 1104-1107.	3.1	28
99	Ion irradiated Er:YAG ceramic cladding waveguide amplifier in C and L bands. Optical Materials Express, 2016, 6, 711.	1.6	28
100	Surface modifications of crystal-ion-sliced LiNbO3 thin films by low energy ion irradiations. Applied Surface Science, 2018, 434, 669-673.	3.1	28
101	Interplay between localization and magnetism in (Ga,Mn)As and (In,Mn)As. Physical Review Materials, 2017, 1, .	0.9	28
102	Application of pulsed laser annealing to ferromagnetic GaMnAs. Physical Review B, 2010, 81, .	1.1	27
103	Ferromagnetism and impurity band in a magnetic semiconductor: InMnP. Physical Review B, 2014, 89, .	1.1	27
104	Electrochemical properties and optical transmission of high $\text{Li}^{+}$ conducting LiSiPON electrolyte films. Physica Status Solidi (B): Basic Research, 2017, 254, 1600088.	0.7	27
105	Critical behavior and magnetocaloric effect in $\text{Mn}_3\text{B}$ . Physical Review B, 2018, 98, .		
106	Ion beam-induced shaping of Ni nanoparticles embedded in a silica matrix: from spherical to prolate shape. Nanoscale Research Letters, 2011, 6, 155.	3.1	26
107	Continuous wave ridge waveguide lasers in femtosecond laser micromachined ion irradiated Nd:YAG single crystals. Optical Materials Express, 2012, 2, 657.	1.6	26
108	Substrate effect on the resistive switching in BiFeO3 thin films. Journal of Applied Physics, 2012, 111, .	1.1	26

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109	Efficient ion-slicing of InP thin film for Si-based hetero-integration. <i>Nanotechnology</i> , 2018, 29, 504002.	1.3	26
110	Monolithic waveguide laser mode-locked by embedded Ag nanoparticles operating at 1 $\mu$ m. <i>Nanophotonics</i> , 2019, 8, 859-868.	2.9	26
111	Depth dependence of the tetragonal distortion of a GaN layer on Si(111) studied by Rutherford backscattering/channeling. <i>Applied Physics Letters</i> , 2002, 80, 4130-4132.	1.5	25
112	The effect of flash lamp annealing on Fe implanted ZnO single crystals. <i>Journal of Applied Physics</i> , 2007, 101, 033906.	1.1	25
113	Ni implanted ZnO single crystals: Correlation between nanoparticle formation and defect structure. <i>Journal of Applied Physics</i> , 2008, 103, 043901.	1.1	25
114	$\langle \text{MnSi} \rangle$ embedded in Si: Superparamagnetism with collective behavior. <i>Physical Review B</i> , 2009, 80, .	1.7	25
115	Disentangling defect-induced ferromagnetism in SiC. <i>Physical Review B</i> , 2014, 89, .	1.1	25
116	Second harmonic generation of diamond-blade diced KTiOPO <sub>4</sub> ridge waveguides. <i>Optics Express</i> , 2016, 24, 16434.	1.7	25
117	Superconducting Ferromagnetic Nanodiamond. <i>ACS Nano</i> , 2017, 11, 5358-5366.	7.3	25
118	Local vibrational modes of Si vacancy spin qubits in SiC. <i>Physical Review B</i> , 2020, 101, .	1.1	25
119	Absence of ferromagnetic-transport signatures in epitaxial paramagnetic and superparamagnetic $\langle \text{Zn} \rangle$ . <i>Physical Review B</i> , 2009, 80, .	1.1	24
120	Topological Hall Effect in Single Thick SrRuO <sub>3</sub> Layers Induced by Defect Engineering. <i>Advanced Electronic Materials</i> , 2020, 6, 2000184.	2.6	24
121	X-ray Spectroscopic and Magnetic Investigation of C:Ni Nanocomposite Films Grown by Ion Beam Cosputtering. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12628-12637.	1.5	23
122	Hysteresis in the magnetotransport of manganese-doped germanium: Evidence for carrier-mediated ferromagnetism. <i>Physical Review B</i> , 2010, 81, .	1.1	23
123	Magnetic properties and giant reversible magnetocaloric effect in GdCo <sub>2</sub> . <i>RSC Advances</i> , 2016, 6, 74765-74768.	1.7	23
124	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
125	Ferromagnetism in GaN induced by Fe ion implantation. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	22
126	Control of Rectifying and Resistive Switching Behavior in BiFeO <sub>3</sub> Thin Films. <i>Applied Physics Express</i> , 2011, 4, 095802.	1.1	22



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127	Ge <sub>1-x</sub> Sn <sub>x</sub> alloys synthesized by ion implantation and pulsed laser melting. Applied Physics Letters, 2014, 105, .	1.5	22
128	Defect-induced ferromagnetism in semiconductors: A controllable approach by particle irradiation. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 55-60.	0.6	22
129	Tailoring nonlinear optical properties of Bi <sub>2</sub> Se <sub>3</sub> through ion irradiation. Scientific Reports, 2016, 6, 21799.	1.6	22
130	Optical ridge waveguides in Er <sup>3+</sup> /Yb <sup>3+</sup> co-doped phosphate glass produced by ion irradiation combined with femtosecond laser ablation for guided-wave green and red upconversion emissions. Optical Materials, 2016, 51, 185-189.	1.7	22
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	Controllable defect driven symmetry change and domain structure evolution in BiFeO <sub>3</sub> with enhanced tetragonality. Nanoscale, 2019, 11, 8110-8118.	2.8	22
133	Efficient Modulation of Photonic Bandgap and Defect Modes in All-Dielectric Photonic Crystals by Energetic Ion Beams. Advanced Optical Materials, 2020, 8, 2000426.	3.6	22
134	Defect-induced magnetism in graphite through neutron irradiation. Physical Review B, 2014, 90, .	1.1	21
135	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
136	Enhanced Trion Emission in Monolayer MoSe <sub>2</sub> by Constructing a Type-II Van Der Waals Heterostructure. Advanced Functional Materials, 2021, 31, 2104960.	7.8	21
137	Chlorine doping of MoSe <sub>2</sub> flakes by ion implantation. Nanoscale, 2021, 13, 5834-5846.	2.8	21
138	High precision determination of the elastic strain of InGaN/GaN multiple quantum wells. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 920.	1.6	20
139	Second harmonic generation of swift carbon ion irradiated Nd:GdCOB waveguides. Optics Express, 2011, 19, 12490.	1.7	20
140	Probing origin of room temperature ferromagnetism in Ni ion implanted ZnO films with x-ray absorption spectroscopy. Journal of Applied Physics, 2012, 111, .	1.1	20
141	Dilute ferromagnetic semiconductors prepared by the combination of ion implantation with pulse laser melting. Journal Physics D: Applied Physics, 2015, 48, 263001.	1.3	20
142	Ridge Waveguides and Y-Branch Beam Splitters in KTiOAsO <sub>4</sub> Crystal by 15 MeV Oxygen Ion Implantation and Femtosecond Laser Ablation. Journal of Lightwave Technology, 2017, 35, 225-229.	2.7	20
143	Magnetocrystalline anisotropy and exchange probed by high-field anomalous Hall effect in fully compensated half-metallic $Mn_{2-x}Mg_x$ thin films. Physical Review B, 2018, 98, .	1.1	20
144	An approach to determine the chemical composition in InGaN/GaN multiple quantum wells. Journal of Crystal Growth, 2004, 263, 35-39.	0.7	19

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145	Suppression of secondary phase formation in Fe implanted ZnO single crystals. Applied Physics Letters, 2007, 91, 062107.	1.5	19
146	Structural and magnetic properties of Tb implanted ZnO single crystals. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 589-593.	0.6	19
147	Release of helium from vacancy defects in yttria-stabilized zirconia under irradiation. Physical Review B, 2012, 86, .	1.1	19
148	InP nanocrystals on silicon for optoelectronic applications. Nanotechnology, 2012, 23, 485204.	1.3	19
149	Silicon-Based Intermediate-Band Infrared Photodetector Realized by Te Hyperdoping. Advanced Optical Materials, 2021, 9, 2001546.	3.6	19
150	Anomalous Hall resistance in Ge:Mn systems with low Mn concentrations. Applied Physics Letters, 2009, 95, .	1.5	18
151	The influence of annealing on manganese implanted GaAs films. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1626-1629.	0.6	18
152	Femtosecond laser micromachining of Nd:GdCOB ridge waveguides for second harmonic generation. Optical Materials, 2012, 34, 1913-1916.	1.7	18
153	Tuning the metal-insulator transition in epitaxial $\text{SrVO}_3$ films by uniaxial strain. Physical Review Materials, 2019, 3, .	0.9	18
154	High cluster formation tendency in Co implanted ZnO. Journal of Applied Physics, 2008, 104, 023510.	1.1	17
155	Direct and converse magnetoelectric effects in $\text{Ni}_{43}\text{Mn}_{41}\text{Co}_5\text{Sn}_{11}/\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ laminate. Journal of Applied Physics, 2010, 107, .	1.1	17
156	Planar optical waveguides in $\text{Bi}_4\text{Ge}_3\text{O}_{12}$ crystal fabricated by swift heavy-ion irradiation. Applied Optics, 2011, 50, 6678.	2.1	17
157	Precise tuning of the Curie temperature of (Ga,Mn)As-based magnetic semiconductors by hole compensation: Support for valence-band ferromagnetism. Physical Review B, 2016, 94, .	1.1	17
158	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
159	On the insulator-to-metal transition in titanium-implanted silicon. Scientific Reports, 2018, 8, 4164.	1.6	17
160	Strain and Band-Gap Engineering in $\text{Ge}_x\text{Sn}_{1-x}$ Alloys via $\text{Sn}$ overgrowth. Applied Physics Letters, 2019, 115, 041101.	1.5	17
161	Tailoring Magnetic Features in Zigzag-Edged Nanographenes by Controlled Diels-Alder Reactions. Chemistry - A European Journal, 2020, 26, 7497-7503.	1.7	17
162	Fe nanoparticles embedded in MgO crystals. Journal of Applied Physics, 2009, 105, 064906.	1.1	16

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163	Ultra large coercivity in barium ferrite thin films prepared by magnetron sputtering. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1859-1862.	1.0	16
164	The importance of hole concentration in establishing carrier-mediated ferromagnetism in Mn doped Ge. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	16
165	Improved retention of nonvolatile bipolar BiFeO <sub>3</sub> resistive memories validated by memristance measurements. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 636-639.	0.8	16
166	Intrinsic diamagnetism in the Weyl semimetal TaAs. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 408, 73-76.	1.0	16
167	Ferromagnetic structurally disordered ZnO implanted with Co ions. <i>Applied Physics Letters</i> , 2008, 93, 232504.	1.5	15
168	Interplay between Kondo-like behavior and short-range antiferromagnetism in EuCu <sub>2</sub> Si <sub>2</sub> single crystals. <i>Physical Review B</i> , 2008, 78, .	1.1	15
169	Optoelectronic properties of ZnO film on silicon after SF <sub>6</sub> plasma treatment and milliseconds annealing. <i>Applied Physics Letters</i> , 2014, 105, 221903.	1.5	15
170	III-V semiconductor nanocrystal formation in silicon nanowires via liquid-phase epitaxy. <i>Nano Research</i> , 2014, 7, 1769-1776.	5.8	15
171	Suppressing the cellular breakdown in silicon supersaturated with titanium. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 245104.	1.3	15
172	Ferromagnetic Mn-Implanted GaP: Microstructures vs Magnetic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 3912-3918.	4.0	15
173	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
174	Atomic-scale modification of hybrid FePt cluster-assembled films. <i>Physical Review B</i> , 2006, 73, .	1.1	14
175	Memory effect of Mn <sub>5</sub> Ge <sub>3</sub> nanomagnets embedded inside a Mn-diluted Ge matrix. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	14
176	Role of Coulomb blockade and spin-flip scattering in tunneling magnetoresistance of FeCo-Si-O nanogranular films. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	14
177	Optical ridge waveguides in Yb:YAG laser crystal produced by combination of swift carbon ion irradiation and femtosecond laser ablation. <i>Optics and Laser Technology</i> , 2015, 72, 100-103.	2.2	14
178	Fabrication of Y128- and Y36-cut lithium niobate single-crystalline thin films by crystal-ion-slicing technique. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FK05.	0.8	14
179	Epitaxial Mn <sub>5</sub> Ge <sub>3</sub> (100) layer on Ge (100) substrates obtained by flash lamp annealing. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	14
180	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

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181	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
182	Magneto-structural correlations in a systematically disordered B2 lattice. <i>New Journal of Physics</i> , 2020, 22, 073004.	1.2	14
183	An effective formaldehyde gas sensor based on oxygen-rich three-dimensional graphene. <i>Nanotechnology</i> , 2022, 33, 185702.	1.3	14
184	Ion beam synthesis of Fe nanoparticles in MgO and yttria-stabilized zirconia. <i>Journal of Applied Physics</i> , 2006, 99, 08N701.	1.1	13
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