

Atsushi Tsukazaki

List of Publications by Year in descending order

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212
papers

14,123
citations

25034

57
h-index

21540

114
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217
all docs

217
docs citations

217
times ranked

12418
citing authors

#	ARTICLE	IF	CITATIONS
1	Repeated temperature modulation epitaxy for p-type doping and light-emitting diode based on ZnO. Nature Materials, 2004, 4, 42-46.	27.5	1,963
2	Magnetic topological insulators. Nature Reviews Physics, 2019, 1, 126-143.	26.6	636
3	Quantum Hall Effect in Polar Oxide Heterostructures. Science, 2007, 315, 1388-1391.	12.6	531
4	High-density Carrier Accumulation in ZnO Field-effect Transistors Gated by Electric Double Layers of Ionic Liquids. Advanced Functional Materials, 2009, 19, 1046-1053.	14.9	522
5	Trajectory of the anomalous Hall effect towards the quantized state in a ferromagnetic topological insulator. Nature Physics, 2014, 10, 731-736.	16.7	517
6	Blue Light-Emitting Diode Based on ZnO. Japanese Journal of Applied Physics, 2005, 44, L643-L645.	1.5	408
7	Fermi-level-dependent charge-to-spin current conversion by Dirac surface states of topological insulators. Nature Physics, 2016, 12, 1027-1031.	16.7	307
8	A magnetic heterostructure of topological insulators as a candidate for an axion insulator. Nature Materials, 2017, 16, 516-521.	27.5	276
9	Robust Formation of Skyrmions and Topological Hall Effect Anomaly in Epitaxial Thin Films of MnSi. Physical Review Letters, 2013, 110, 117202.	7.8	269
10	Magnetic modulation doping in topological insulators toward higher-temperature quantum anomalous Hall effect. Applied Physics Letters, 2015, 107, .	3.3	260
11	Observation of the fractional quantum Hall effect in an oxide. Nature Materials, 2010, 9, 889-893.	27.5	258
12	Correlation between the photoluminescence lifetime and defect density in bulk and epitaxial ZnO. Applied Physics Letters, 2003, 82, 532-534.	3.3	232
13	Electrostatic and Electrochemical Nature of Liquid-Gated Electric-Double-Layer Transistors Based on Oxide Semiconductors. Journal of the American Chemical Society, 2010, 132, 18402-18407.	13.7	227
14	Electric-field-induced superconductivity in electrochemically etched ultrathin FeSe films on SrTiO ₃ and MgO. Nature Physics, 2016, 12, 42-46.	16.7	227
15	Pulsed laser deposition of thin films and superlattices based on ZnO. Semiconductor Science and Technology, 2005, 20, S1-S12.	2.0	197
16	Nitrogen doped Mg _x Zn _{1-x} O/ZnO single heterostructure ultraviolet light-emitting diodes on ZnO substrates. Applied Physics Letters, 2010, 97, .	3.3	184
17	Gallium concentration dependence of room-temperature near-band-edge luminescence in n-type ZnO:Ga. Applied Physics Letters, 2004, 85, 759-761.	3.3	172
18	Quantum Hall effect in a bulk antiferromagnet EuMnBi ₂ with magnetically confined two-dimensional Dirac fermions. Science Advances, 2016, 2, e1501117.	10.3	171

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19	Insulator-to-metal transition in ZnO by electric double layer gating. Applied Physics Letters, 2007, 91, .	3.3	168
20	Tailoring tricolor structure of magnetic topological insulator for robust axion insulator. Science Advances, 2017, 3, eaao1669.	10.3	155
21	Quantum Hall effect on top and bottom surface states of topological insulator (Bi _{1-x} Sbx) ₂ Te ₃ films. Nature Communications, 2015, 6, 6627.	12.8	154
22	Hydrogenation-Induced Surface Polarity Recognition and Proton Memory Behavior at Protic-Ionic-Liquid/Oxide Electric-Double-Layer Interfaces. Journal of the American Chemical Society, 2010, 132, 6672-6678.	13.7	151
23	Geometric Hall effects in topological insulator heterostructures. Nature Physics, 2016, 12, 555-559.	16.7	146
24	Large Unidirectional Magnetoresistance in a Magnetic Topological Insulator. Physical Review Letters, 2016, 117, 127202.	7.8	144
25	Transparent polymer Schottky contact for a high performance visible-blind ultraviolet photodiode based on ZnO. Applied Physics Letters, 2008, 93, .	3.3	139
26	Even-denominator fractional quantum Hall physics in ZnO. Nature Physics, 2015, 11, 347-351.	16.7	138
27	Terahertz spectroscopy on Faraday and Kerr rotations in a quantum anomalous Hall state. Nature Communications, 2016, 7, 12245.	12.8	122
28	Current-Nonlinear Hall Effect and Spin-Orbit Torque Magnetization Switching in a Magnetic Topological Insulator. Physical Review Letters, 2017, 119, 137204.	7.8	122
29	Schottky contact on a ZnO (0001) single crystal with conducting polymer. Applied Physics Letters, 2007, 91, .	3.3	118
30	Challenges and opportunities of ZnO-related single crystalline heterostructures. Applied Physics Reviews, 2014, 1, 011303.	11.3	118
31	Electron transport in ZnO thin films. Applied Physics Letters, 2005, 87, 022101.	3.3	114
32	Quantized chiral edge conduction on domain walls of a magnetic topological insulator. Science, 2017, 358, 1311-1314.	12.6	112
33	Improvements in quantum efficiency of excitonic emissions in ZnO epilayers by the elimination of point defects. Journal of Applied Physics, 2006, 99, 093505.	2.5	105
34	Defects in ZnO thin films grown on ScAlMgO ₄ substrates probed by a monoenergetic positron beam. Journal of Applied Physics, 2003, 93, 2481-2485.	2.5	103
35	Donor-acceptor pair luminescence in nitrogen-doped ZnO films grown on lattice-matched ScAlMgO ₄ (0001) substrates. Solid State Communications, 2003, 127, 265-269.	1.9	97
36	Systematic examination of carrier polarity in composition spread ZnO thin films codoped with Ga and N. Applied Physics Letters, 2002, 81, 235-237.	3.3	96

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37	Giant magneto-optical responses in magnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . Nature Communications, 2020, 11, 4619.	12.8	92
38	High-mobility electronic transport in ZnO thin films. Applied Physics Letters, 2006, 88, 152106.	3.3	90
39	Magnetic Field-Induced Insulator-Semimetal Transition in a Pyrochlore Nd_2O_7 . Physical Review Letters, 2015, 115, 056402.	7.8	73
40	Discretized topological Hall effect emerging from skyrmions in constricted geometry. Physical Review B, 2015, 91, .	3.2	84
41	Enhanced photogalvanic current in topological insulators via Fermi energy tuning. Physical Review B, 2016, 93, .	3.2	84
42	Stress-Induced Perpendicular Magnetization in Epitaxial Iron Garnet Thin Films. Applied Physics Express, 2012, 5, 103002.	2.4	82
43	High Electron Mobility Exceeding $10^4 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ in Mg _{1-x} Zn _x O/ZnO Single Heterostructures Grown by Molecular Beam Epitaxy. Applied Physics Express, 0, 1, 055004.	2.4	79
44	Large Anomalous Hall Effect in Topological Insulators with Proximitized Ferromagnetic Insulators. Physical Review Letters, 2019, 123, 016804.	7.8	79
45	Stability of two-dimensional skyrmions in thin films of Mn ₂ Si investigated by the topological Hall effect. Physical Review B, 2014, 89, .	3.2	73
46	Magnesium Doping Controlled Density and Mobility of Two-Dimensional Electron Gas in Mg _{1-x} Zn _x O/ZnO Heterostructures. Applied Physics Express, 2011, 4, 091101.	2.4	72
47	Nonreciprocal charge transport at topological insulator/superconductor interface. Nature Communications, 2019, 10, 2734.	12.8	72
48	MgZnO/ZnO heterostructures with electron mobility exceeding $1 \times 10^6 \text{ cm}^2/\text{Vs}$. Scientific Reports, 2016, 6, 26598.	3.3	71
49	Layer-by-layer growth of high-optical-quality ZnO film on atomically smooth and lattice relaxed ZnO buffer layer. Applied Physics Letters, 2003, 83, 2784-2786.	3.3	70
50	Odd-parity magnetoresistance in pyrochlore iridate thin films with broken time-reversal symmetry. Scientific Reports, 2015, 5, 9711.	3.3	68
51	Quantum anomalous Hall effect driven by magnetic proximity coupling in all-telluride based heterostructure. Applied Physics Letters, 2019, 115, .	3.3	67
52	Exciton-polariton spectra and limiting factors for the room-temperature photoluminescence efficiency in ZnO. Semiconductor Science and Technology, 2005, 20, S67-S77.	2.0	66
53	Dirac electron states formed at the heterointerface between a topological insulator and a conventional semiconductor. Nature Materials, 2014, 13, 253-257.	27.5	66
54	Topological Hall effect in thin films of the Heisenberg ferromagnet EuO. Physical Review B, 2015, 91, .	3.2	63

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55	Observation of the quantum Hall effect in \hat{I} -doped SrTiO ₃ . Nature Communications, 2016, 7, 11631.	12.8	62
56	Magneto-Optical Spectroscopy of Anatase TiO ₂ Doped with Co. Japanese Journal of Applied Physics, 2003, 42, L105-L107.	1.5	61
57	Giant thermoelectric power factor in ultrathin FeSe superconductor. Nature Communications, 2019, 10, 825.	12.8	61
58	Investigation of ZnO/sapphire interface and formation of ZnO nanocrystalline by laser MBE. Applied Surface Science, 2000, 159-160, 514-519.	6.1	59
59	Electric dipole effect in PdCoO ₂ / $\sqrt{2}$ -Ga ₂ O ₃ Schottky diodes for high-temperature operation. Science Advances, 2019, 5, eaax5733.	10.3	59
60	Photoreflectance spectra of a ZnO heteroepitaxial film on the nearly lattice-matched ScAlMgO ₄ (0001) substrate grown by laser molecular-beam epitaxy. Applied Physics Letters, 2002, 80, 2860-2862.	3.3	58
61	Spin susceptibility and effective mass of two-dimensional electrons in $\text{Mg} \times \text{Mg}$ Physical Review B, 2008, 78, .	3.2	56
62	Radiative and nonradiative excitonic transitions in nonpolar (112 $\bar{1}$,0) and polar (0001 $\bar{1}$,) and (0001) ZnO epilayers. Applied Physics Letters, 2004, 84, 1079-1081.	3.3	55
63	Improvement of electron mobility in La:BaSnO ₃ thin films by insertion of an atomically flat insulating (Sr,Ba)SnO ₃ buffer layer. AIP Advances, 2016, 6, .	1.3	55
64	Systematic control of stress-induced anisotropy in pseudomorphic iron garnet thin films. Journal of Magnetism and Magnetic Materials, 2013, 339, 63-70.	2.3	54
65	Quantum Hall states stabilized in semi-magnetic bilayers of topological insulators. Nature Communications, 2015, 6, 8530.	12.8	53
66	Pulsed Laser Deposition and Ionic Liquid Gate Control of Epitaxial Bi ₂ Se ₃ Thin Films. Applied Physics Express, 2011, 4, 083001.	2.4	52
67	Ferromagnetic insulator Cr ₂ Ge ₂ Te ₆ thin films with perpendicular remanence. APL Materials, 2018, 6, .	5.1	51
68	Electronic Field Control of Two-Dimensional Electrons in Polymer-Gated Oxide Semiconductor Heterostructures. Advanced Materials, 2010, 22, 876-879.	21.0	48
69	Plasma-assisted Molecular Beam Epitaxy of High Optical Quality MgZnO Films on Zn-polar ZnO Substrates. Applied Physics Express, 0, 1, 091202.	2.4	47
70	Current-induced switching of proximity-induced ferromagnetic surface states in a topological insulator. Nature Communications, 2021, 12, 1404.	12.8	47
71	Highly conductive PdCoO ₂ ultrathin films for transparent electrodes. APL Materials, 2018, 6, .	5.1	45
72	Experimental signature of the parity anomaly in a semi-magnetic topological insulator. Nature Physics, 2022, 18, 390-394.	16.7	45

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73	Formation of In-plane Skyrmions in Epitaxial MnSi Thin Films as Revealed by Planar Hall Effect. Journal of the Physical Society of Japan, 2015, 84, 104708.	1.6	40
74	Giant anomalous Hall effect from spin-chirality scattering in a chiral magnet. Nature Communications, 2021, 12, 317.	12.8	40
75	Quantitative control and detection of heterovalent impurities in ZnO thin films grown by pulsed laser deposition. Journal of Applied Physics, 2003, 93, 2562-2569.	2.5	38
76	Hall and Field-Effect Mobilities of Electrons Accumulated at a Lattice-Matched ZnO/ScAlMgO4 Heterointerface. Advanced Materials, 2004, 16, 1887-1890.	21.0	38
77	Observation of anomalous Hall effect in EuO epitaxial thin films grown by a pulse laser deposition. Applied Physics Letters, 2011, 98, .	3.3	37
78	Emission from the higher-order excitons in ZnO films grown by laser molecular-beam epitaxy. Applied Physics Letters, 2004, 84, 3858-3860.	3.3	36
79	Single-valley quantum Hall ferromagnet in a dilute Mg _x Zn _{1-x} O/ZnO strongly correlated two-dimensional electron system. Physical Review B, 2012, 85, .	3.2	36
80	Electron scattering times in ZnO based polar heterostructures. Applied Physics Letters, 2015, 107, .	3.3	36
81	Large magneto-thermopower in MnGe with topological spin texture. Nature Communications, 2018, 9, 408.	12.8	36
82	Observation of anomalous Hall effect in a non-magnetic two-dimensional electron system. Nature Communications, 2017, 8, 14777.	12.8	35
83	Direct Observation of the Statics and Dynamics of Emergent Magnetic Monopoles in a Chiral Magnet. Physical Review Letters, 2020, 125, 137202.	7.8	34
84	Spectral shape analysis of ultraviolet luminescence in n-type ZnO:Ga. Journal of Applied Physics, 2005, 98, 093520.	2.5	33
85	Photoexcitation screening of the built-in electric field in ZnO single quantum wells. Applied Physics Letters, 2008, 93, 121907.	3.3	33
86	SIMS analysis of ZnO films co-doped with N and Ga by temperature gradient pulsed laser deposition. Applied Surface Science, 2004, 223, 206-209.	6.1	32
87	Temperature-Dependent Magnetotransport around $\nu = 1/2$ in ZnO Heterostructures. Physical Review Letters, 2012, 108, 186803.	7.8	31
88	Quantum anomalous Hall effect with a permanent magnet defines a quantum resistance standard. Nature Physics, 2022, 18, 25-29.	16.7	31
89	Epitaxial growth and physical properties of a room temperature ferromagnetic semiconductor: Anatase phase Ti _{1-x} CoxO ₂ . Journal of Applied Physics, 2004, 96, 5097-5102.	2.5	30
90	Polymer Schottky contact on O-polar ZnO with silane coupling agent as surface protective layer. Applied Physics Letters, 2008, 93, 012104.	3.3	30

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91	Observation of microwave induced resistance and photovoltage oscillations in MgZnO/ZnO heterostructures. Physical Review B, 2016, 93, .	3.2	30
92	Current-Driven Instability of the Quantum Anomalous Hall Effect in Ferromagnetic Topological Insulators. Physical Review Letters, 2017, 119, 016803.	7.8	30
93	Current-driven magnetization switching in ferromagnetic bulk Rashba semiconductor (Ge,Mn)Te. Science Advances, 2018, 4, eaat9989.	3.2	29
94	A cascade of phase transitions in an orbitally mixed half-filled Landau level. Science Advances, 2018, 4, eaat8742.	10.3	28
95	Polarization-dependent Landau level crossing in a two-dimensional electron system in a MgZnO/ZnO heterostructure. Physical Review B, 2014, 90, .	3.2	26
96	All-in-all-out magnetic domain wall conduction in a pyrochlore iridate heterointerface. Physical Review B, 2016, 93, .	3.2	26
97	Enhanced electron mobility at the two-dimensional metallic surface of BaSnO ₃ electric-double-layer transistor at low temperatures. Applied Physics Letters, 2017, 110, .	3.3	26
98	Ferromagnetic Co ₃ Sn ₂ S ₂ thin films fabricated by co-sputtering. Japanese Journal of Applied Physics, 2019, 58, 050912.	1.5	26
99	Fe-Sn nanocrystalline films for flexible magnetic sensors with high thermal stability. Scientific Reports, 2019, 9, 3282.	3.3	26
100	Mg _x Zn _{1-x} O-Based Schottky Photodiode for Highly Color-Selective Ultraviolet Light Detection. Applied Physics Express, 2008, 1, 121201.	2.4	25
101	Rashba spin-orbit interaction in a MgZnO/ZnO two-dimensional electron gas studied by electrically detected electron spin resonance. Physical Review B, 2013, 87, .	3.2	25
102	Topological spin-hedgehog crystals of a chiral magnet as engineered with magnetic anisotropy. Physical Review B, 2017, 96, .	3.2	25
103	Competing correlated states around the zero-field Wigner crystallization transition of electrons in two dimensions. Nature Materials, 2022, 21, 311-316.	27.5	25
104	Gate control of surface transport in MBE-grown topological insulator (Bi _{1-x} Sb _x) ₂ Te ₃ thin films. Physical Review B, 2012, 86, .	3.2	24
105	Direct observation of anisotropic magnetic field response of the spin helix in FeGe thin films. Physical Review B, 2016, 94, .	3.2	24
106	Ultrafast Time-Resolved Faraday Rotation in EuO Thin Films. Physical Review Letters, 2012, 108, 257401.	7.8	23
107	Correlation-Enhanced Effective Mass of Two-Dimensional Electrons in MgZnO/ZnO Heterostructures. Physical Review Letters, 2012, 109, 246401.	7.8	23
108			

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109	Optical probing of MgZnO/ZnO heterointerface confinement potential energy levels. Applied Physics Letters, 2015, 106, .	3.3	23
110	All-in-all-out magnetic domain size in pyrochlore iridate thin films as probed by local magnetotransport. Applied Physics Letters, 2016, 108, .	3.3	23
111	Observation of superparamagnetism in coexistence with quantum anomalous Hall $\nu = \pm 1$ and Chern $\nu = 0$ states. Npj Quantum Materials, 2017, 2, .	5.2	23
112	Topological quantum phase transition in magnetic topological insulator upon magnetization rotation. Physical Review B, 2018, 98, .	3.2	23
113	Critical thickness for the emergence of Weyl features in Co ₃ Sn ₂ S ₂ thin films. Communications Materials, 2021, 2, .	6.9	23
114	Low-temperature field-effect and magnetotransport properties in a ZnO based heterostructure with atomic-layer-deposited gate dielectric. Applied Physics Letters, 2008, 93, .	3.3	22
115	Microwave magnetoplasma resonances of two-dimensional electrons in MgZnO/ZnO heterojunctions. Physical Review B, 2015, 91, .	3.2	22
116	Zero-bias photocurrent in ferromagnetic topological insulator. Nature Communications, 2016, 7, 12246.	12.8	22
117	Hole Transport in p-Type ZnO. Japanese Journal of Applied Physics, 2006, 45, 6346-6351.	1.5	21
118	Recombination dynamics of excitons in Mg _{0.11} Zn _{0.89} O alloy films grown using the high-temperature-annealed self-buffer layer by laser-assisted molecular-beam epitaxy. Applied Physics Letters, 2007, 90, 141903.	3.3	21
119	Self-phase modulation at visible wavelengths in nonlinear ZnO channel waveguides. Applied Physics Letters, 2010, 97, .	3.3	21
120	Improvement of Electron Mobility above 100,000 cm ² /Vs in Mg _x Zn _{1-x} O/ZnO Heterostructures. Japanese Journal of Applied Physics, 2011, 50, 080215.	1.5	21
121	First-principles investigation of magnetic and transport properties in hole-doped shandite compounds S Physical Review B, 2021, 103, .	3.3	21
122	Direct comparison of photoluminescence lifetime and defect densities in ZnO epilayers studied by time-resolved photoluminescence and slow positron annihilation techniques. Physica Status Solidi A, 2004, 201, 2841-2845.	1.7	20
123	Thin-film stabilization of LiNbO ₃ -type ZnSnO ₃ and MgSnO ₃ by molecular-beam epitaxy. APL Materials, 2019, 7, .	5.1	20
124	Large non-reciprocal charge transport mediated by quantum anomalous Hall edge states. Nature Nanotechnology, 2020, 15, 831-835.	31.5	20
125	Anomalous Hall effect at the spontaneously electron-doped polar surface of PdCoO ₂ ultrathin films. Physical Review Research, 2020, 2, .	3.6	20
126	Preparation of an Epitaxy-Ready Surface of a ZnO(0001) Substrate. Applied Physics Express, 2011, 4, 035701.	2.4	19

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127	Unified trend of superconducting transition temperature versus Hall coefficient for ultrathin FeSe films prepared on different oxide substrates. <i>Physical Review B</i> , 2017, 95, .	3.2	19
128	Mg _x Zn _{1-x} O Films with a Low Residual Donor Concentration (10^{15}cm ⁻³) Grown by Molecular Beam Epitaxy. <i>Applied Physics Express</i> , 2010, 3, 071101.	2.4	18
129	Control of Schottky barrier height in metal/ I^2 -Ga ₂ O ₃ junctions by insertion of PdCoO ₂ layers. <i>APL Materials</i> , 2020, 8, .	5.1	18
130	Precise resistance measurement of quantum anomalous Hall effect in magnetic heterostructure film of topological insulator. <i>Applied Physics Letters</i> , 2020, 116, 143101.	3.3	17
131	Spatial distribution of two-dimensional electron gas in a ZnO/Mg _{0.2} Zn _{0.8} O heterostructure probed with a conducting polymer Schottky contact. <i>Applied Physics Letters</i> , 2010, 96, 052116.	3.3	16
132	Precise calibration of Mg concentration in Mg _x Zn _{1-x} O thin films grown on ZnO substrates. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	16
133	High field-effect mobility at the (Sr,Ba)SnO ₃ /BaSnO ₃ interface. <i>AIP Advances</i> , 2016, 6, 085014.	1.3	16
134	Dynamic characteristics of PdCoO ₂ / I^2 -Ga ₂ O ₃ Schottky junctions. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	16
135	Optimization of the Growth Conditions for Molecular Beam Epitaxy of Mg _x Zn _{1-x} O (0$\leq x \leq 0.12$) Films on Zn-Polar ZnO Substrates. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 071104.	1.5	15
136	Magnetic-field-induced topological phase transition in Fe-doped $S_{x_1}e_{x_2}Mn_3$ heterostructures. <i>Physical Review Materials</i> , 2020, 4, .	2.4	15
137	Ultrafast optical control of magnetization in EuO thin films. <i>Physical Review B</i> , 2012, 86, .	3.2	14
138	Formation of distorted rutile-type NbO ₂ , MoO ₂ , and WO ₂ films by reactive sputtering. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	14
139	Co thin films deposited directly on ZnO polar surfaces. <i>Scientific Reports</i> , 2016, 6, 38005.	3.3	13
140	Fermi-level tuning of the Dirac surface state in (Bi _{1-x} Sb _x) ₂ Se ₃ thin films. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 085501.	1.8	13
141	Current-induced magnetization switching at charge-transferred interface between topological insulator (Bi,Sb) ₂ Te ₃ and van der Waals ferromagnet Fe ₃ GeTe ₂ . <i>Applied Physics Letters</i> , 2021, 119, .	3.3	13
142	Enhancement of superconducting transition temperature in FeSe electric-double-layer transistor with multivalent ionic liquids. <i>Physical Review Materials</i> , 2018, 2, .	2.4	13
143	Magneto-optical spectroscopy on Weyl nodes for anomalous and topological Hall effects in chiral MnGe. <i>Nature Communications</i> , 2021, 12, 5974.	12.8	13
144	Magneto-photoluminescence of charged excitons from Mg _x Zn _{1-x} O/ZnO heterojunctions. <i>Physical Review B</i> , 2013, 87, .	3.2	12

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145	Spin-Selective Electron Quantum Transport in Nonmagnetic MgZnO/ZnO Heterostructures. Physical Review Letters, 2015, 115, 197601.	7.8	12
146	Hall field-induced resistance oscillations in MgZnO/ZnO heterostructures. Physical Review B, 2017, 95, .	3.2	12
147	All-in-all-out magnetic domain inversion in O_7 with molecular fields antiparallel to external fields. Physical Review Materials, 2018, 2, .	2.4	12
148	Majority-carrier mobilities in undoped and n-type doped ZnO epitaxial layers. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 956-959.	0.8	11
149	Low-Temperature Growth of Highly Crystalline Superconducting ZrN Thin Film on GaN Layer by Pulsed Laser Deposition. Japanese Journal of Applied Physics, 2007, 46, L1000-L1002.	1.5	11
150	Surface and interface engineering of ZnO based heterostructures fabricated by pulsed-laser deposition. Journal Physics D: Applied Physics, 2014, 47, 034003.	2.8	11
151	A versatile patterning process based on easily soluble sacrificial bilayers. AIP Advances, 2017, 7, .	1.3	11
152	Fabrication of tetragonal FeSe ϵ FeS alloy films with high sulfur contents by alternate deposition. Japanese Journal of Applied Physics, 2017, 56, 100308.	1.5	11
153	Two different features of ZnO: Transparent ZnO:Ga electrodes for InGaN-LEDs and homoepitaxial ZnO films for UV-LEDs. , 2006, 6122, 79.		10
154	Magneto-optical study of n-type modulation-doped ZnO . Physical Review B, 2009, 80, .	3.2	10
155	Current scaling of the topological quantum phase transition between a quantum anomalous Hall insulator and a trivial insulator. Physical Review B, 2020, 102, .	3.2	10
156	Signature of band inversion in the perovskite thin-film alloys $\text{BaS}_{1-x}\text{P}_x\text{O}_3$. Physical Review B, 2019, 100, .	3.2	10
157	Emergence of spin-orbit coupled ferromagnetic surface state derived from Zak phase in a nonmagnetic insulator FeSi. Science Advances, 2021, 7, eabj0498.	10.3	10
158	Photoinduced insulator-to-metal transition in $\text{ZnO}_{0.15}\text{Zn}_{0.85}\text{O}$ heterostructures. Applied Physics Letters, 2008, 92, 052105.	3.3	9
159	$\text{Mg}_x\text{Zn}_{1-x}\text{O}$ epitaxial films grown on ZnO substrates by molecular beam epitaxy. Proceedings of SPIE, 2008, , .	0.8	9
160	Pulsed-laser deposition of InSe thin films for the detection of thickness-dependent bandgap modification. Applied Physics Letters, 2018, 113, .	3.3	9
161	Anisotropy of the upper critical field and its thickness dependence in superconducting FeSe electric-double-layer transistors. Physical Review B, 2018, 97, .	3.2	9
162	Doping-induced enhancement of anomalous Hall coefficient in Fe-Sn nanocrystalline films for highly sensitive Hall sensors. APL Materials, 2019, 7, .	5.1	9

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163	Inhomogeneous interface dipole effect at the Schottky junctions of PdCrO ₂ on λ -Ga ₂ O ₃ (2 \times 01) substrates. Journal of Applied Physics, 2020, 128, .	2.5	9
164	Nonreciprocal Transport in a Rashba Ferromagnet, Delafossite PdCoO ₂ . Nano Letters, 2021, 21, 8687-8692.	9.1	9
165	Free-Carrier Effects on Zero- and One-Phonon Absorption Onsets of n-Type ZnO. Japanese Journal of Applied Physics, 2005, 44, 7275-7280.	1.5	8
166	ZnO Channel Waveguides for Nonlinear Optical Applications. Japanese Journal of Applied Physics, 2010, 49, 04DG15.	1.5	8
167	Andreev Reflection at the Interface with an Oxide in the Quantum Hall Regime. Journal of the Physical Society of Japan, 2018, 87, 124712.	1.6	8
168	Emergence of interfacial conduction and ferromagnetism in MnTe/InP. Applied Physics Letters, 2018, 113, .	3.3	8
169	Electrical detection of the antiferromagnetic transition in MnTiO ₃ ultrathin films by spin Hall magnetoresistance. Journal of Applied Physics, 2020, 127, 103903.	2.5	8
170	Determination of the phase coherence length of PdCoO ₂ nanostructures by conductance fluctuation analysis. Physical Review B, 2021, 103, .	3.2	8
171	Three-dimensional sensing of the magnetic-field vector by a compact planar-type Hall device. Communications Materials, 2021, 2, .	6.9	8
172	Photoinduced sign inversion of the anomalous Hall effect in EuO thin films. Physical Review B, 2014, 89, .	3.2	7
173	Effect of the depletion region in topological insulator heterostructures for ambipolar field-effect transistors. Physical Review B, 2018, 98, .	3.2	7
174	Low-frequency noise measurements on Fe ³⁺ /Sn Hall sensors. Applied Physics Express, 2019, 12, 123001.	2.4	7
175	Robust perpendicular magnetic anisotropy of Co ₃ S ₂ phase in sulfur deficient sputtered thin films. Physical Review Materials, 2021, 5, .	2.4	7
176	Two-dimensionality of metallic surface conduction in Co ₃ Sn ₂ S ₂ thin films. Communications Physics, 2021, 4, .	5.3	7
177	Shifting Donor-Acceptor Photoluminescence in N-doped ZnO. Journal of the Physical Society of Japan, 2006, 75, 073701.	1.6	6
178	High-mobility field-effect transistor based on crystalline ZnSnO ₃ thin films. AIP Advances, 2018, 8, .	1.3	6
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