

# Zhi-Min Liao

## List of Publications by Year in descending order

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167  
papers

7,264  
citations

50170

46  
h-index

64668

79  
g-index

169  
all docs

169  
docs citations

169  
times ranked

10938  
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant negative magnetoresistance induced by the chiral anomaly in individual Cd <sub>3</sub> As <sub>2</sub> nanowires. Nature Communications, 2015, 6, 10137.	5.8	372
2	Self-Powered, Ultrafast, Visible-Blind UV Detection and Optical Logical Operation based on ZnO/GaN Nanoscale p-n Junctions. Advanced Materials, 2011, 23, 649-653.	11.1	371
3	Ultrafast growth of single-crystal graphene assisted by a continuous oxygen supply. Nature Nanotechnology, 2016, 11, 930-935.	15.6	330
4	Strong Second-Harmonic Generation in Atomic Layered GaSe. Journal of the American Chemical Society, 2015, 137, 7994-7997.	6.6	273
5	Strain dependent resistance in chemical vapor deposition grown graphene. Applied Physics Letters, 2011, 99, .	1.5	200
6	Surface effects on photoluminescence of single ZnO nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4505-4509.	0.9	184
7	Graphene/ZnO nanowire/graphene vertical structure based fast-response ultraviolet photodetector. Applied Physics Letters, 2012, 100, .	1.5	182
8	Long-distance propagation of short-wavelength spin waves. Nature Communications, 2018, 9, 738.	5.8	181
9	Ultrafast Broadband Photodetectors Based on Three-Dimensional Dirac Semimetal Cd <sub>3</sub> As <sub>2</sub> . Nano Letters, 2017, 17, 834-841.	4.5	162
10	Effect of surface states on electron transport in individual ZnO nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 367, 207-210.	0.9	137
11	Electronic and Mechanical Coupling in Bent ZnO Nanowires. Advanced Materials, 2009, 21, 4937-4941.	11.1	137
12	Aharonov-Bohm oscillations in Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> nanowires. Nature Communications, 2016, 7, 10769.	5.8	137
13	Memory and Threshold Resistance Switching in Ni/NiO Core-Shell Nanowires. Nano Letters, 2011, 11, 4601-4606.	4.5	136
14	Ultralong Single-Crystalline Ag <sub>2</sub> S Nanowires: Promising Candidates for Photoswitches and Room-Temperature Oxygen Sensors. Advanced Materials, 2008, 20, 2628-2632.	11.1	121
15	Spin-Filter Effect in Magnetite Nanowire. Nano Letters, 2006, 6, 1087-1091.	4.5	108
16	Quantum transport in Dirac and Weyl semimetals: a review. Advances in Physics: X, 2017, 2, 518-544.	1.5	99
17	MoS <sub>2</sub> Memtransistors Fabricated by Localized Helium Ion Beam Irradiation. ACS Nano, 2019, 13, 14262-14273.	7.3	99
18	Synthesis and Quantum Transport Properties of Bi <sub>2</sub> Se <sub>3</sub> Topological Insulator Nanostructures. Scientific Reports, 2013, 3, 1264.	1.6	95

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19	Layer-by-layer assembly of vertically conducting graphene devices. Nature Communications, 2013, 4, 1921.	5.8	95
20	Electrical and Photoresponse Properties of an Intramolecular p-n Homojunction in Single Phosphorus-Doped ZnO Nanowires. Nano Letters, 2009, 9, 2513-2518.	4.5	91
21	Topological Surface State Enhanced Photothermoelectric Effect in Bi <sub>2</sub> Se <sub>3</sub> Nanoribbons. Nano Letters, 2014, 14, 4389-4394.	4.5	79
22	Hysteresis reversion in graphene field-effect transistors. Journal of Chemical Physics, 2010, 133, 044703.	1.2	78
23	Thermoelectric signature of the chiral anomaly in Cd <sub>3</sub> As <sub>2</sub> . Nature Communications, 2016, 7, 13013.	5.8	78
24	Tailoring Exciton Dynamics by Elastic Strain Gradient in Semiconductors. Advanced Materials, 2014, 26, 2572-2579.	11.1	76
25	Stretch-Induced Stiffness Enhancement of Graphene Grown by Chemical Vapor Deposition. ACS Nano, 2013, 7, 1171-1177.	7.3	75
26	Single ZnO Nanowire/p-type GaN Heterojunctions for Photovoltaic Devices and UV Light-Emitting Diodes. Advanced Materials, 2010, 22, 4284-4287.	11.1	73
27	Graphene/GaN diodes for ultraviolet and visible photodetectors. Applied Physics Letters, 2014, 105, .	1.5	73
28	Seamless lateral graphene p-n junctions formed by selective in situ doping for high-performance photodetectors. Nature Communications, 2018, 9, 5168.	5.8	71
29	Ion irradiation induced structural and electrical transition in graphene. Journal of Chemical Physics, 2010, 133, 234703.	1.2	70
30	Large magnetoresistance in high mobility topological insulator Bi <sub>2</sub> Se <sub>3</sub> . Applied Physics Letters, 2013, 103, .	1.5	70
31	From positive to negative magnetoresistance in graphene with increasing disorder. Applied Physics Letters, 2011, 98, .	1.5	69
32	Large Magnetoresistance in Few Layer Graphene Stacks with Current Perpendicular to Plane Geometry. Advanced Materials, 2012, 24, 1862-1866.	11.1	66
33	Two-Carrier Transport Induced Hall Anomaly and Large Tunable Magnetoresistance in Dirac Semimetal Cd <sub>3</sub> As <sub>2</sub> Nanoplates. ACS Nano, 2016, 10, 6020-6028.	7.3	66
34	Strain induced exciton fine-structure splitting and shift in bent ZnO microwires. Scientific Reports, 2012, 2, 452.	1.6	64
35	Exciton Drift in Semiconductors under Uniform Strain Gradients: Application to Bent ZnO Microwires. ACS Nano, 2014, 8, 3412-3420.	7.3	64
36	Strain Gradient Effect on Energy Bands in Bent ZnO Microwires. Advanced Materials, 2012, 24, 4707-4711.	11.1	62

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37	Photovoltaic effect and charge storage in single ZnO nanowires. Applied Physics Letters, 2008, 93, .	1.5	59
38	Resistive Switching and Metallic Filament Formation in Ag <sub>2</sub> S Nanowire Transistors. Small, 2009, 5, 2377-2381.	5.2	57
39	Magnetic proximity effect in graphene coupled to a BiFeO <sub>3</sub> nanoplate. Physical Review B, 2017, 95, .	1.1	57
40	Site-Specific Transfer Printing of Individual Graphene Microscale Patterns to Arbitrary Surfaces. Advanced Materials, 2011, 23, 3938-3943.	11.1	55
41	Magnetic moments in graphene with vacancies. Nanoscale, 2014, 6, 8814.	2.8	53
42	Lateral graphene pn junctions formed by the graphene/MoS <sub>2</sub> hybrid interface. Nanoscale, 2015, 7, 11611-11619.	2.8	53
43	Topological Semimetal Nanostructures: From Properties to Topotronics. ACS Nano, 2020, 14, 3755-3778.	7.3	51
44	Observation of an Odd-Integer Quantum Hall Effect from Topological Surface States in Cd <sub>3</sub> As <sub>2</sub> . Physical Review Letters, 2019, 122, 036602.	2.9	50
45	Periodic Supercurrent from Surface States in Cd <sub>3</sub> As <sub>2</sub> . Physical Review Letters, 2019, 122, 036603.	2.9	49
46	Ultrafast relaxation dynamics of photoexcited Dirac fermions in the three-dimensional Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> . Physical Review Letters, 2019, 122, 036604.	1.1	47
47	Physi Graphene plasmon enhanced photoluminescence in ZnO microwires. Nanoscale, 2013, 5, 5294.	2.8	46
48	Reversible insulator-metal transition of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface for nonvolatile memory. Scientific Reports, 2013, 3, 2870.	1.6	46
49	Temperature dependence of photoconductivity and persistent photoconductivity of single ZnO nanowires. Applied Physics A: Materials Science and Processing, 2009, 95, 363-366.	1.1	45
50	Vertical graphene spin valve with Ohmic contacts. Nanoscale, 2013, 5, 8894.	2.8	45
51	Low cost and flexible mesh-based supercapacitors for promising large-area flexible/wearable energy storage. Nano Energy, 2014, 6, 82-91.	8.2	44
52	Strain Tunable Berry Curvature Dipole, Orbital Magnetization and Nonlinear Hall Effect in WSe <sub>2</sub> Monolayer*. Chinese Physics Letters, 2021, 38, 017301.	1.3	44
53	Evolution of resistive switching over bias duration of single Ag <sub>2</sub> S nanowires. Applied Physics Letters, 2010, 96, .	1.5	41
54	High-Mobility Bi <sub>2</sub> Se <sub>3</sub> Nanoplates Manifesting Quantum Oscillations of Surface States in the Sidewalls. Scientific Reports, 2014, 4, 3817.	1.6	41

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55	Thickness dependent friction on few-layer MoS <sub>2</sub> , WS <sub>2</sub> , and WSe <sub>2</sub> . Nanotechnology, 2017, 28, 245703.	1.3	41
56	Confined Three-Dimensional Plasmon Modes inside a Ring-Shaped Nanocavity on a Silver Film Imaged by Cathodoluminescence Microscopy. Physical Review Letters, 2010, 105, 127402.	2.9	40
57	Mn <sub>2</sub> Au: Body-Centered Tetragonal Bimetallic Antiferromagnets Grown by Molecular Beam Epitaxy. Advanced Materials, 2012, 24, 6374-6379.	11.1	40
58	Electric Control of Fermi Arc Spin Transport in Individual Topological Semimetal Nanowires. Physical Review Letters, 2020, 124, 116802.	2.9	39
59	Size-Dependent Correlations between Strain and Phonon Frequency in Individual ZnO Nanowires. ACS Nano, 2013, 7, 8891-8898.	7.3	37
60	Strain Loading Mode Dependent Bandgap Deformation Potential in ZnO Micro/Nanowires. ACS Nano, 2015, 9, 11960-11967.	7.3	37
61	Zeeman effect on surface electron transport in topological insulator Bi <sub>2</sub> Se <sub>3</sub> nanoribbons. Nanoscale, 2015, 7, 16687-16694.	2.8	36
62	Reducing Electronic Transport Dimension to Topological Hinge States by Increasing Geometry Size of Dirac Semimetal Josephson Junctions. Physical Review Letters, 2020, 124, 156601.	2.9	35
63	In situ growth, structure characterization, and enhanced photocatalysis of high-quality, single-crystalline ZnTe/ZnO branched nanoheterostructures. Nanoscale, 2011, 3, 4418.	2.8	34
64	Step-by-Step Fracture of Two-Layer Stacked Graphene Membranes. ACS Nano, 2014, 8, 10246-10251.	7.3	34
65	The effect of adsorbates on the space-charge-limited current in single ZnO nanowires. Nanotechnology, 2008, 19, 335204.	1.3	33
66	Gate-Tunable Tunneling Resistance in Graphene/Topological Insulator Vertical Junctions. ACS Nano, 2016, 10, 3816-3822.	7.3	33
67	Gate-tuned Aharonov-Bohm interference of surface states in a quasiballistic Dirac semimetal nanowire. Physical Review B, 2017, 95, .	1.1	32
68	Spin wave propagation in perpendicularly magnetized nm-thick yttrium iron garnet films. Journal of Magnetism and Magnetic Materials, 2018, 450, 3-6.	1.0	32
69	Improvement of ultraviolet photoresponse of bent ZnO microwires by coupling piezoelectric and surface oxygen adsorption/desorption effects. Nanoscale, 2013, 5, 916.	2.8	31
70	Bulk and surface states carried supercurrent in ballistic Nb-Dirac semimetal $Cd_{1-x}Mn_x$ nanowire-Nb junctions. Physical Review B, 2018, 97, .	1.3	31
71	Dirac Semimetal Heterostructures: 3D Cd <sub>3</sub> As <sub>2</sub> on 2D Graphene. Advanced Materials, 2018, 30, e1707547.	11.1	30
72	Orbit-Transfer Torque Driven Field-Free Switching of Perpendicular Magnetization. Chinese Physics Letters, 2022, 39, 037303.	1.3	30

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73	Luminescence blue-shift of CdSe nanowires beyond the quantum confinement regime. Applied Physics Letters, 2011, 99, 103103.	1.5	29
74	Nanorainforest solar cells based on multi-junction hierarchical p-Si/n-CdS/n-ZnO nanoheterostructures. Nanoscale, 2012, 4, 261-268.	2.8	28
75	Bending-induced conductance increase in individual semiconductor nanowires and nanobelts. Nano Research, 2009, 2, 553-557.	5.8	27
76	Ultrathin epitaxial MgB <sub>2</sub> superconducting films with high critical current density and $T_c$ above 33 K. Superconductor Science and Technology, 2009, 22, 125015.	1.8	26
77	Temperature Dependence of Photoelectrical Properties of Single Selenium Nanowires. Nanoscale Research Letters, 2010, 5, 926-929.	3.1	25
78	Synthesis and field emission properties of topological insulator Bi <sub>2</sub> Se <sub>3</sub> nanoflake arrays. Nanotechnology, 2012, 23, 305704.	1.3	25
79	Gate Modulation of Graphene-ZnO Nanowire Schottky Diode. Scientific Reports, 2015, 5, 10125.	1.6	23
80	Surface-Facet-Dependent Phonon Deformation Potential in Individual Strained Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> Nanoribbons. ACS Nano, 2015, 9, 10244-10251.	7.3	23
81	$MnB_2$ topological insulator $T_c$	1.1	23
82	Fermi-arc supercurrent oscillations in Dirac semimetal Josephson junctions. Nature Communications, 2020, 11, 1150.	5.8	23
83	Fano Interference between Bulk and Surface States of a Dirac Semimetal Cd <sub>3</sub> As <sub>2</sub> Nanowire. Physical Review Letters, 2018, 120, 257701. Universal conductance fluctuations in Dirac semimetal	2.9	23
84	$C_3$ $d_3$ $A_2$	1.1	22
85	Asymmetric Modulation on Exchange Field in a Graphene/BiFeO <sub>3</sub> Heterostructure by External Magnetic Field. Nano Letters, 2018, 18, 2435-2441.	4.5	22
86	Dispersion Control in Plasmonic Open Nanocavities. ACS Nano, 2011, 5, 6546-6552.	7.3	21
87	Growth of large domain epitaxial graphene on the C-face of SiC. Journal of Applied Physics, 2012, 112, .	1.1	20
88	First-principles study of the formation mechanisms of nitrogen molecule in annealed ZnO. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3546-3550.	0.9	19
89	Ultrahigh field emission current density from nitrogen-implanted ZnO nanowires. Nanotechnology, 2010, 21, 095701.	1.3	19
90	Observation of both classical and quantum magnetoresistance in bilayer graphene. Europhysics Letters, 2011, 94, 57004.	0.7	19

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91	Magnetoresistance in graphene under quantum limit regime. Applied Physics Letters, 2013, 102, .	1.5	19
92	Photovoltaic Effect and Evidence of Carrier Multiplication in Graphene Vertical Homojunctions with Asymmetrical Metal Contacts. ACS Nano, 2015, 9, 8851-8858.	7.3	19
93	Study of damage generation induced by focused helium ion beam in silicon. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2019, 37, .	0.6	18
94	Controllable synthesis and characterization of tube brush-like ZnO nanowires produced via a simple chemical vapor deposition method. Applied Physics A: Materials Science and Processing, 2010, 98, 491-497.	1.1	17
95	Magnetoresistance of Fe <sub>3</sub> O <sub>4</sub> -graphene-Fe <sub>3</sub> O <sub>4</sub> junctions. Applied Physics Letters, 2011, 98, 052511.	1.5	17
96	Synthesis and Photovoltaic Properties of Cd <sub>3</sub> As <sub>2</sub> Faceted Nanoplates and Nano-Octahedrons. Crystal Growth and Design, 2015, 15, 3264-3270.	1.4	17
97	Gate voltage dependence of weak localization in bilayer graphene. Applied Physics Letters, 2010, 97, 163110.	1.5	16
98	Improved performance of ZnO nanowire field-effect transistors via focused ion beam treatment. Nanotechnology, 2011, 22, 375201.	1.3	16
99	Transversal magneto-resistance in epitaxial Fe <sub>3</sub> O <sub>4</sub> and Fe <sub>3</sub> O <sub>4</sub> /NiO exchange biased system. Applied Physics Letters, 2012, 101, 052402.	1.5	16
100	Ultraviolet Irradiation- Controlled Memory Effect in Graphene Field-Effect Transistors. Small, 2013, 9, 2240-2244.	5.2	16
101	Photoelectrical properties of insulating LaAlO <sub>3</sub> / SrTiO <sub>3</sub> interfaces. Nanoscale, 2014, 6, 736-740.	2.8	16
102	Anomalous Anisotropic Magnetoresistance of Antiferromagnetic Epitaxial Bimetallic Films: Mn <sub>2</sub> Au and Mn <sub>2</sub> Au/Fe Bilayers. Advanced Functional Materials, 2016, 26, 5884-5892.	7.8	16
103	Electronic Coupling between Graphene and Topological Insulator Induced Anomalous Magnetotransport Properties. ACS Nano, 2017, 11, 6277-6285.	7.3	16
104	Gate tunable photoconductivity of p-channel Se nanowire field effect transistors. Applied Physics Letters, 2009, 95, .	1.5	15
105	Influence of temperature and illumination on surface barrier of individual ZnO nanowires. Journal of Chemical Physics, 2009, 130, 084708.	1.2	15
106	Single-Crystal BiFeO <sub>3</sub> Nanoplates with Robust Antiferromagnetism. ACS Applied Materials & Interfaces, 2018, 10, 5785-5792.	4.0	15
107	Enhanced near-band-edge emission and field emission properties from plasma treated ZnO nanowires. Applied Physics A: Materials Science and Processing, 2010, 100, 165-170.	1.1	14
108	Effect of contact barrier on electron transport in graphene. Journal of Chemical Physics, 2010, 132, 024706.	1.2	14

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109	Fabrication and Electrical Properties of Stacked Graphene Monolayers. <i>Scientific Reports</i> , 2014, 4, 5065.	1.6	14
110	Single crystalline SmB <sub>6</sub> nanowires for self-powered, broadband photodetectors covering mid-infrared. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	14
111	Topological Transition of Superconductivity in Dirac Semimetal Nanowire Josephson Junctions. <i>Physical Review Letters</i> , 2021, 126, 027001.	2.9	14
112	Electron transport in an array of platinum quantum dots. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 345, 386-390.	0.9	13
113	Short-Wavelength Spin Waves in Yttrium Iron Garnet Micro-Channels on Silicon. <i>IEEE Magnetics Letters</i> , 2016, 7, 1-4.	0.6	13
114	Ultrabroadband spin-wave propagation in $\text{Co}/\text{MnBi}$ thin films. <i>Physical Review B</i> , 2017, 96, .	1.2	13
115	Surface plasmon on topological insulator/dielectric interface enhanced ZnO ultraviolet photoluminescence. <i>AIP Advances</i> , 2012, 2, .	0.6	12
116	Vertically Architected Stack of Multiple Graphene Field-Effect Transistors for Flexible Electronics. <i>Small</i> , 2015, 11, 1660-1664.	5.2	12
117	The relationship between quantum transport and microstructure evolution in carbon-sheathed Pt granular metal nanowires. <i>Nanotechnology</i> , 2008, 19, 305402.	1.3	11
118	MgB <sub>2</sub> Superconducting Whiskers Synthesized by Using the Hybrid Physical-Chemical Vapor Deposition. <i>Journal of the American Chemical Society</i> , 2009, 131, 2436-2437.	6.6	11
119	Current regulation of universal conductance fluctuations in bilayer graphene. <i>New Journal of Physics</i> , 2010, 12, 083016.	1.2	11
120	Strain-Gradient Modulated Exciton Emission in Bent ZnO Wires Probed by Cathodoluminescence. <i>ACS Nano</i> , 2016, 10, 11469-11474.	7.3	11
121	Synthesis and electrical properties of TiSi <sub>2</sub> nanocables. <i>Applied Physics Letters</i> , 2008, 92, 253102.	1.5	10
122	Direct Visualization of Photomorphic Reaction Dynamics of Plasmonic Nanoparticles in Liquid by Four-Dimensional Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4045-4052.	2.1	10
123	Modifying optical properties of ZnO nanowires via strain-gradient. <i>Frontiers of Physics</i> , 2013, 8, 509-515.	2.4	9
124	Topological transport in Dirac electronic systems: A concise review. <i>Chinese Physics B</i> , 2017, 26, 037301.	0.7	9
125	Spin-polarized surface state transport in a topological Kondo insulator SmB <sub>6</sub> nanowire. <i>Physical Review B</i> , 2017, 95, .	1.1	9
126	Electrical control of magnetic proximity effect in a graphene/multiferroic heterostructure. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	9



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127	Room-Temperature Manipulation of Spin Texture in a Dirac Semimetal. Physical Review Applied, 2020, 14, .	1.5	9
128	Strain-gradient induced topological transition in bent nanoribbons of the Dirac semimetal $\text{Cd}_3\text{As}_2$ . Physical Review B, 2021, 104, .	1.3	9
129	Confined-path interference suppressed quantum correction on weak antilocalization effect in a BiSbTeSe <sub>2</sub> topological insulator. Applied Physics Letters, 2018, 112, .	1.5	8
130	Magnetotransport evidence for topological phase transition in a Dirac semimetal. Applied Physics Letters, 2019, 115, .	1.5	8
131	Anomalous Hall effect in graphene coupled to a layered magnetic semiconductor. Physical Review B, 2021, 103, .	1.1	8
132	Hysteresis magnetoresistance and micromagnetic modeling of Ni microbelts. Journal of Magnetism and Magnetic Materials, 2010, 322, 2231-2234.	1.0	7
133	Ultralow-frequency photocurrent oscillation in ZnO nanowires. Applied Physics Letters, 2010, 97, 033113.	1.5	7
134	Outermost tensile strain dominated exciton emission in bending CdSe nanowires. Science China Materials, 2014, 57, 26-33.	3.5	7
135	Gate-modulated weak anti-localization and carrier trapping in individual Bi <sub>2</sub> Se <sub>3</sub> nanoribbons. Applied Physics Letters, 2015, 106, 063103.	1.5	7
136	Spontaneous ferromagnetism and magnetoresistance hysteresis in Ge <sub>1-x</sub> Sn alloys. Science Bulletin, 2021, 66, 1375-1378.	4.3	7
137	Light Controllable Electronic Phase Transition in Ionic Liquid Gated Monolayer Transition Metal Dichalcogenides. Nano Letters, 2021, 21, 6800-6806.	4.5	7
138	Intermediate anomalous Hall states induced by noncollinear spin structure in the magnetic topological insulator $\text{MnBi}$ . Physical Review B, 2021, 104, .	1.7	7
139	Surface Engineering of Antisymmetric Linear Magnetoresistance and Spin-Polarized Surface State Transport in Dirac Semimetals. Nano Letters, 2021, 21, 2026-2032.	4.5	7
140	Topological nature of higher-order hinge states revealed by spin transport. Science Bulletin, 2022, , .	4.3	7
141	Bending strain effects on the optical and optoelectric properties of GaN nanowires. Nano Research, 2022, 15, 4575-4581.	5.8	7
142	Spin wave propagation detected over $100\text{m}$ in half-metallic Heusler alloy $\text{Co}_2\text{MnSi}$ . Journal of Magnetism and Magnetic Materials, 2018, 450, 13-17.	1.0	6
143	Photoexcited Electron Dynamics in $\text{Cd}_3\text{As}_2$ Revealed by Time- and Energy-Resolved Photoemission Electron Microscopy. Journal of Physical Chemistry C, 2022, 126, 3134-3139.	1.5	6
144	Orbital polarization and third-order anomalous Hall effect in $\text{WTe}_2$ . Physical Review B, 2022, 106, .	1.1	6

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145	Characterization of Mn-doped ZnO nanobelts by electron energy-loss spectroscopy. Journal of Electron Microscopy, 2009, 58, 295-299.	0.9	5
146	One-Step Growth and Field Emission Properties of SnO <sub>2</sub> -Capped Silicon Nanowires: A Sn-Catalyzed Approach. Journal of Physical Chemistry C, 2009, 113, 6450-6453.	1.5	5
147	Magnetotransport across the metal-graphene hybrid interface and its modulation by gate voltage. Nanoscale, 2015, 7, 5516-5524.	2.8	5
148	Breakthrough of the p-type doping bottleneck in ZnO by inserting an ultrathin ZnX (X = S, Se and Te) layer doped with Ni or AgZn. Journal Physics D: Applied Physics, 2016, 49, 095104.	1.3	5
149	Magnetotransport properties near the Dirac point of Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> nanowires. Journal of Physics Condensed Matter, 2017, 29, 044003.	0.7	5
150	Quantum Spin-Wave Materials, Interface Effects and Functional Devices for Information Applications. Frontiers in Materials, 2020, 7, .	1.2	4
151	Graphene/ZnO Nanowire/p-GaN Vertical Junction for a High-Performance Nanoscale Light Source. ACS Omega, 2020, 5, 4133-4138.	1.6	4
152	Strain-dependent resistance and giant gauge factor in monolayer WSe <sub>2</sub> . Chinese Physics B, 2021, 30, 097203.	0.7	4
153	Gate modulation of anisotropic superconductivity in Al-Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> nanoplate-Al Josephson junctions. Superconductor Science and Technology, 2022, 35, 044003.	1.8	4
154	Two-terminal quantized conductance in inhomogeneous graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3332-3334.	0.9	3
155	Magnetic field induced insulating state in bilayer graphene at charge neutral point. Applied Physics Letters, 2014, 104, .	1.5	3
156	Magnetic field enhanced single particle tunneling in MoS <sub>2</sub> superconductor vertical Josephson junction. Chinese Physics B, 2020, 29, 057502.	0.7	3
157	Interplay between topological surface states and superconductivity in SmB <sub>6</sub> /NbN tunnel junctions. Physical Review B, 2017, 96, .	1.1	3
158	Ultraviolet/Visible Quasicylindrical Waves on Semimetal Cd <sub>3</sub> As <sub>2</sub> Nanoplates. Advanced Photonics Research, 0, , 2100354.	1.7	3
159	Quantum interference effect in single disordered silver nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1181-1184.	0.9	2
160	Domain wall configuration and magneto-transport properties in dual spin-valve with nanoconstriction. Applied Physics Letters, 2012, 100, 242409.	1.5	2
161	Magnetic field enhanced zero-bias conductance in vertical Josephson junctions based on Weyl semimetals. Physical Review B, 2020, 101, .	1.1	2
162	Proximity-induced superconducting gap in the intrinsic magnetic topological insulator $\text{MnBi}_2\text{Te}_4$ . Physical Review B, 2022, 105, .	1.2	2

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163	Electronic and Mechanical Coupling in Elastically Bent ZnO Micro/Nanowires. Materials Research Society Symposia Proceedings, 2014, 1664, 1.	0.1	1
164	Magnetoresistance hysteresis in topological Kondo insulator SmB <sub>6</sub> nanowire. Chinese Physics B, 2019, 28, 107501.	0.7	1
165	Asymmetric magneto-transport in a Dirac semimetal heterostructure. Applied Physics Letters, 2019, 114, 243107.	1.5	1
166	Acoustic plasmonics of Au grating/Bi <sub>2</sub> Se <sub>3</sub> thin film/sapphire hybrid structures. Chinese Physics B, 2020, 29, 067801.	0.7	0
167	Temperature Dependent Exciton Funnel Dynamics in Uniform Strain Gradient Field Observed by Time-Resolved Photoluminescence. Advanced Optical Materials, 2022, 10, 2101969.	3.6	0