

Zhi-Min Liao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

159
papers

5,823
citations

42
h-index

70
g-index

169
ext. papers

6,638
ext. citations

7.8
avg. IF

5.58
L-index

#	Paper	IF	Citations
159	Orbit-Transfer Torque Driven Field-Free Switching of Perpendicular Magnetization. <i>Chinese Physics Letters</i> , 2022 , 39, 037303	1.8	3
158	Surface Engineering of Antisymmetric Linear Magnetoresistance and Spin-Polarized Surface State Transport in Dirac Semimetals. <i>Nano Letters</i> , 2021 , 21, 2026-2032	11.5	1
157	Topological Transition of Superconductivity in Dirac Semimetal Nanowire Josephson Junctions. <i>Physical Review Letters</i> , 2021 , 126, 027001	7.4	2
156	Spontaneous ferromagnetism and magnetoresistance hysteresis in Ge _{1-x} Sn _x alloys. <i>Science Bulletin</i> , 2021 , 66, 1375-1378	10.6	2
155	Light Controllable Electronic Phase Transition in Ionic Liquid Gated Monolayer Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2021 , 21, 6800-6806	11.5	0
154	Intermediate anomalous Hall states induced by noncollinear spin structure in the magnetic topological insulator MnBi ₂ Te ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	2
153	Strain-dependent resistance and giant gauge factor in monolayer WSe ₂ *. <i>Chinese Physics B</i> , 2021 , 30, 097203	1.2	1
152	Strain Tunable Berry Curvature Dipole, Orbital Magnetization and Nonlinear Hall Effect in WSe ₂ Monolayer*. <i>Chinese Physics Letters</i> , 2021 , 38, 017301	1.8	18
151	Quantum Spin-Wave Materials, Interface Effects and Functional Devices for Information Applications. <i>Frontiers in Materials</i> , 2020 , 7,	4	2
150	Electric Control of Fermi Arc Spin Transport in Individual Topological Semimetal Nanowires. <i>Physical Review Letters</i> , 2020 , 124, 116802	7.4	19
149	Magnetic field enhanced single particle tunneling in MoS ₂ /superconductor vertical Josephson junction. <i>Chinese Physics B</i> , 2020 , 29, 057502	1.2	1
148	From negative to positive magnetoresistance in the intrinsic magnetic topological insulator MnBi ₂ Te ₄ . <i>Physical Review B</i> , 2020 , 101,	3.3	12
147	Fermi-arc supercurrent oscillations in Dirac semimetal Josephson junctions. <i>Nature Communications</i> , 2020 , 11, 1150	17.4	10
146	Graphene/ZnO Nanowire/p-GaN Vertical Junction for a High-Performance Nanoscale Light Source. <i>ACS Omega</i> , 2020 , 5, 4133-4138	3.9	1
145	Reducing Electronic Transport Dimension to Topological Hinge States by Increasing Geometry Size of Dirac Semimetal Josephson Junctions. <i>Physical Review Letters</i> , 2020 , 124, 156601	7.4	13
144	Topological Semimetal Nanostructures: From Properties to Topotronics. <i>ACS Nano</i> , 2020 , 14, 3755-3778	16.7	19
143	Acoustic plasmonics of Au grating/Bi ₂ Se ₃ thin film/sapphire hybrid structures. <i>Chinese Physics B</i> , 2020 , 29, 067801	1.2	

142	Room-Temperature Manipulation of Spin Texture in a Dirac Semimetal. <i>Physical Review Applied</i> , 2020 , 14,	4.3	2
141	Observation of an Odd-Integer Quantum Hall Effect from Topological Surface States in Cd ₃ As ₂ . <i>Physical Review Letters</i> , 2019 , 122, 036602	7.4	30
140	Asymmetric magneto-transport in a Dirac semimetal heterostructure. <i>Applied Physics Letters</i> , 2019 , 114, 243107	3.4	1
139	Study of damage generation induced by focused helium ion beam in silicon. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019 , 37, 031804	1.3	10
138	Magnetoresistance hysteresis in topological Kondo insulator SmB ₆ nanowire. <i>Chinese Physics B</i> , 2019 , 28, 107501	1.2	1
137	Magnetotransport evidence for topological phase transition in a Dirac semimetal. <i>Applied Physics Letters</i> , 2019 , 115, 183103	3.4	2
136	MoS Memtransistors Fabricated by Localized Helium Ion Beam Irradiation. <i>ACS Nano</i> , 2019 , 13, 14262-14267	26.3	55
135	Long-distance propagation of short-wavelength spin waves. <i>Nature Communications</i> , 2018 , 9, 738	17.4	111
134	Single crystalline SmB ₆ nanowires for self-powered, broadband photodetectors covering mid-infrared. <i>Applied Physics Letters</i> , 2018 , 112, 162106	3.4	6
133	Single-Crystal BiFeO Nanoplates with Robust Antiferromagnetism. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5785-5792	9.5	13
132	Confined-path interference suppressed quantum correction on weak antilocalization effect in a BiSbTeSe ₂ topological insulator. <i>Applied Physics Letters</i> , 2018 , 112, 032102	3.4	6
131	Bulk and surface states carried supercurrent in ballistic Nb-Dirac semimetal Cd ₃ As ₂ nanowire-Nb junctions. <i>Physical Review B</i> , 2018 , 97,	3.3	22
130	Asymmetric Modulation on Exchange Field in a Graphene/BiFeO Heterostructure by External Magnetic Field. <i>Nano Letters</i> , 2018 , 18, 2435-2441	11.5	17
129	Spin wave propagation in perpendicularly magnetized nm-thick yttrium iron garnet films. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 450, 3-6	2.8	22
128	Spin wave propagation detected over 100 μ m in half-metallic Heusler alloy Co ₂ MnSi. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 450, 13-17	2.8	4
127	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	6.4	7
126	Dirac Semimetal Heterostructures: 3D Cd As on 2D Graphene. <i>Advanced Materials</i> , 2018 , 30, e1707547	24	23
125	Fano Interference between Bulk and Surface States of a Dirac Semimetal Cd ₃ As ₂ Nanowire. <i>Physical Review Letters</i> , 2018 , 120, 257701	7.4	17

124	4-Periodic Supercurrent from Surface States in Cd ₃ As ₂ Nanowire-Based Josephson Junctions. <i>Physical Review Letters</i> , 2018 , 121, 237701	7.4	32
123	Seamless lateral graphene p-n junctions formed by selective in situ doping for high-performance photodetectors. <i>Nature Communications</i> , 2018 , 9, 5168	17.4	48
122	Electrical control of magnetic proximity effect in a graphene/multiferroic heterostructure. <i>Applied Physics Letters</i> , 2018 , 113, 183101	3.4	6
121	Ultrafast Broadband Photodetectors Based on Three-Dimensional Dirac Semimetal CdAs. <i>Nano Letters</i> , 2017 , 17, 834-841	11.5	116
120	Ultrafast relaxation dynamics of photoexcited Dirac fermions in the three-dimensional Dirac semimetal Cd ₃ As ₂ . <i>Physical Review B</i> , 2017 , 95,	3.3	34
119	Topological transport in Dirac electronic systems: A concise review. <i>Chinese Physics B</i> , 2017 , 26, 037301	1.2	8
118	Electronic Coupling between Graphene and Topological Insulator Induced Anomalous Magnetotransport Properties. <i>ACS Nano</i> , 2017 , 11, 6277-6285	16.7	13
117	Thickness dependent friction on few-layer MoS ₂ , WS ₂ , and WSe ₂ . <i>Nanotechnology</i> , 2017 , 28, 245703	3.4	24
116	Quantum transport in Dirac and Weyl semimetals: a review. <i>Advances in Physics: X</i> , 2017 , 2, 518-544	5.1	57
115	Magnetotransport properties near the Dirac point of Dirac semimetal CdAs nanowires. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 044003	1.8	3
114	Spin-polarized surface state transport in a topological Kondo insulator SmB ₆ nanowire. <i>Physical Review B</i> , 2017 , 95,	3.3	8
113	Ultrabroadband spin-wave propagation in Co ₂ (Mn _{0.6} Fe _{0.4})Si thin films. <i>Physical Review B</i> , 2017 , 96,	3.3	11
112	Gate-tuned Aharonov-Bohm interference of surface states in a quasiballistic Dirac semimetal nanowire. <i>Physical Review B</i> , 2017 , 95,	3.3	20
111	Magnetic proximity effect in graphene coupled to a BiFeO ₃ nanoplate. <i>Physical Review B</i> , 2017 , 95,	3.3	42
110	Interplay between topological surface states and superconductivity in SmB ₆ /NbN tunnel junctions. <i>Physical Review B</i> , 2017 , 96,	3.3	2
109	Strain-Gradient Modulated Exciton Emission in Bent ZnO Wires Probed by Cathodoluminescence. <i>ACS Nano</i> , 2016 , 10, 11469-11474	16.7	9
108	Universal conductance fluctuations in Dirac semimetal Cd ₃ As ₂ nanowires. <i>Physical Review B</i> , 2016 , 94,	3.3	17
107	Thermoelectric signature of the chiral anomaly in CdAs. <i>Nature Communications</i> , 2016 , 7, 13013	17.4	52

106	Short-Wavelength Spin Waves in Yttrium Iron Garnet Micro-Channels on Silicon. <i>IEEE Magnetics Letters</i> , 2016 , 7, 1-4	1.6	10
105	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. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 095104	3	4
104	Anomalous Anisotropic Magnetoresistance of Antiferromagnetic Epitaxial Bimetallic Films: Mn ₂ Au and Mn ₂ Au/Fe Bilayers. <i>Advanced Functional Materials</i> , 2016 , 26, 5884-5892	15.6	14
103	Aharonov-Bohm oscillations in Dirac semimetal Cd ₃ As ₂ nanowires. <i>Nature Communications</i> , 2016 , 7, 10769-74	17.4	111
102	Two-Carrier Transport Induced Hall Anomaly and Large Tunable Magnetoresistance in Dirac Semimetal Cd ₃ As ₂ Nanoplates. <i>ACS Nano</i> , 2016 , 10, 6020-8	16.7	47
101	Gate-Tunable Tunneling Resistance in Graphene/Topological Insulator Vertical Junctions. <i>ACS Nano</i> , 2016 , 10, 3816-22	16.7	27
100	Ultrafast growth of single-crystal graphene assisted by a continuous oxygen supply. <i>Nature Nanotechnology</i> , 2016 , 11, 930-935	28.7	277
99	Strong Second-Harmonic Generation in Atomic Layered GaSe. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7994-7	16.4	206
98	Gate Modulation of Graphene-ZnO Nanowire Schottky Diode. <i>Scientific Reports</i> , 2015 , 5, 10125	4.9	21
97	Strain Loading Mode Dependent Bandgap Deformation Potential in ZnO Micro/Nanowires. <i>ACS Nano</i> , 2015 , 9, 11960-7	16.7	28
96	Gate-modulated weak anti-localization and carrier trapping in individual Bi ₂ Se ₃ nanoribbons. <i>Applied Physics Letters</i> , 2015 , 106, 063103	3.4	5
95	Photovoltaic Effect and Evidence of Carrier Multiplication in Graphene Vertical Homojunctions with Asymmetrical Metal Contacts. <i>ACS Nano</i> , 2015 , 9, 8851-8	16.7	15
94	Surface-Facet-Dependent Phonon Deformation Potential in Individual Strained Topological Insulator Bi ₂ Se ₃ Nanoribbons. <i>ACS Nano</i> , 2015 , 9, 10244-51	16.7	18
93	Zeeman effect on surface electron transport in topological insulator Bi ₂ Se ₃ nanoribbons. <i>Nanoscale</i> , 2015 , 7, 16687-94	7.7	27
92	Vertically architected stack of multiple graphene field-effect transistors for flexible electronics. <i>Small</i> , 2015 , 11, 1660-4	11	11
91	Lateral graphene p-n junctions formed by the graphene/MoS ₂ hybrid interface. <i>Nanoscale</i> , 2015 , 7, 11611-7	7.7	46
90	Synthesis and Photovoltaic Properties of Cd ₃ As ₂ Faceted Nanoplates and Nano-Octahedrons. <i>Crystal Growth and Design</i> , 2015 , 15, 3264-3270	3.5	13
89	Giant negative magnetoresistance induced by the chiral anomaly in individual Cd ₃ As ₂ nanowires. <i>Nature Communications</i> , 2015 , 6, 10137	17.4	294

88	Magnetotransport across the metal-graphene hybrid interface and its modulation by gate voltage. <i>Nanoscale</i> , 2015 , 7, 5516-24	7.7	3
87	Fabrication and electrical properties of stacked graphene monolayers. <i>Scientific Reports</i> , 2014 , 4, 5065	4.9	13
86	Tailoring exciton dynamics by elastic strain-gradient in semiconductors. <i>Advanced Materials</i> , 2014 , 26, 2572-9	24	62
85	Magnetic field induced insulating state in bilayer graphene at charge neutral point. <i>Applied Physics Letters</i> , 2014 , 104, 153103	3.4	3
84	Magnetic moments in graphene with vacancies. <i>Nanoscale</i> , 2014 , 6, 8814-21	7.7	41
83	Photoelectrical properties of insulating LaAlO ₃ -SrTiO ₃ interfaces. <i>Nanoscale</i> , 2014 , 6, 736-40	7.7	15
82	Step-by-step fracture of two-layer stacked graphene membranes. <i>ACS Nano</i> , 2014 , 8, 10246-51	16.7	24
81	Graphene/GaN diodes for ultraviolet and visible photodetectors. <i>Applied Physics Letters</i> , 2014 , 105, 073103	3.4	63
80	Low cost and flexible mesh-based supercapacitors for promising large-area flexible/wearable energy storage. <i>Nano Energy</i> , 2014 , 6, 82-91	17.1	39
79	Exciton drift in semiconductors under uniform strain gradients: application to bent ZnO microwires. <i>ACS Nano</i> , 2014 , 8, 3412-20	16.7	57
78	Topological surface state enhanced photothermoelectric effect in Bi ₂ Se ₃ nanoribbons. <i>Nano Letters</i> , 2014 , 14, 4389-94	11.5	69
77	High-mobility Bi ₂ Se ₃ nanoplates manifesting quantum oscillations of surface states in the sidewalls. <i>Scientific Reports</i> , 2014 , 4, 3817	4.9	37
76	Outermost tensile strain dominated exciton emission in bending CdSe nanowires. <i>Science China Materials</i> , 2014 , 57, 26-33	7.1	5
75	Electronic and Mechanical Coupling in Elastically Bent ZnO Micro/Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1664, 1		1
74	Large magnetoresistance in high mobility topological insulator Bi ₂ Se ₃ . <i>Applied Physics Letters</i> , 2013 , 103, 033106	3.4	59
73	Improvement of ultraviolet photoresponse of bent ZnO microwires by coupling piezoelectric and surface oxygen adsorption/desorption effects. <i>Nanoscale</i> , 2013 , 5, 916-20	7.7	27
72	Modifying optical properties of ZnO nanowires via strain-gradient. <i>Frontiers of Physics</i> , 2013 , 8, 509-515	3.7	9
71	Vertical graphene spin valve with Ohmic contacts. <i>Nanoscale</i> , 2013 , 5, 8894-8	7.7	31

70	Size-dependent correlations between strain and phonon frequency in individual ZnO nanowires. <i>ACS Nano</i> , 2013 , 7, 8891-8	16.7	33
69	Synthesis and quantum transport properties of Bi ₂ Se ₃ topological insulator nanostructures. <i>Scientific Reports</i> , 2013 , 3, 1264	4.9	88
68	Graphene plasmon enhanced photoluminescence in ZnO microwires. <i>Nanoscale</i> , 2013 , 5, 5294-8	7.7	42
67	Stretch-induced stiffness enhancement of graphene grown by chemical vapor deposition. <i>ACS Nano</i> , 2013 , 7, 1171-7	16.7	60
66	Layer-by-layer assembly of vertically conducting graphene devices. <i>Nature Communications</i> , 2013 , 4, 1921-4	7.4	86
65	Ultraviolet irradiation-controlled memory effect in graphene field-effect transistors. <i>Small</i> , 2013 , 9, 2240-4	4	15
64	Magnetoresistance in graphene under quantum limit regime. <i>Applied Physics Letters</i> , 2013 , 102, 093116	3.4	15
63	Reversible insulator-metal transition of LaAlO ₃ /SrTiO ₃ interface for nonvolatile memory. <i>Scientific Reports</i> , 2013 , 3, 2870	4.9	43
62	Large magnetoresistance in few layer graphene stacks with current perpendicular to plane geometry. <i>Advanced Materials</i> , 2012 , 24, 1862-6	24	59
61	Nanorainforest solar cells based on multi-junction hierarchical p-Si/n-CdS/n-ZnO nanoheterostructures. <i>Nanoscale</i> , 2012 , 4, 261-8	7.7	25
60	Mn ₂ Au: body-centered-tetragonal bimetallic antiferromagnets grown by molecular beam epitaxy. <i>Advanced Materials</i> , 2012 , 24, 6374-9	24	34
59	Strain induced exciton fine-structure splitting and shift in bent ZnO microwires. <i>Scientific Reports</i> , 2012 , 2, 452	4.9	61
58	Graphene/ZnO nanowire/graphene vertical structure based fast-response ultraviolet photodetector. <i>Applied Physics Letters</i> , 2012 , 100, 223114	3.4	162
57	Strain-gradient effect on energy bands in bent ZnO microwires. <i>Advanced Materials</i> , 2012 , 24, 4707-11	24	60
56	Domain wall configuration and magneto-transport properties in dual spin-valve with nanoconstriction. <i>Applied Physics Letters</i> , 2012 , 100, 242409	3.4	2
55	Synthesis and field emission properties of topological insulator Bi ₂ Se ₃ nanoflake arrays. <i>Nanotechnology</i> , 2012 , 23, 305704	3.4	23
54	Transversal magneto-resistance in epitaxial Fe ₃ O ₄ and Fe ₃ O ₄ /NiO exchange biased system. <i>Applied Physics Letters</i> , 2012 , 101, 052402	3.4	16
53	Surface plasmon on topological insulator/dielectric interface enhanced ZnO ultraviolet photoluminescence. <i>AIP Advances</i> , 2012 , 2, 022105	1.5	12

52	Growth of large domain epitaxial graphene on the C-face of SiC. <i>Journal of Applied Physics</i> , 2012 , 112, 104307	2.5	19
51	Memory and threshold resistance switching in Ni/NiO core-shell nanowires. <i>Nano Letters</i> , 2011 , 11, 4601-4605	16.5	119
50	Dispersion control in plasmonic open nanocavities. <i>ACS Nano</i> , 2011 , 5, 6546-52	16.7	18
49	Self-powered, ultrafast, visible-blind UV detection and optical logical operation based on ZnO/GaN nanoscale p-n junctions. <i>Advanced Materials</i> , 2011 , 23, 649-53	24	312
48	Site-specific transfer-printing of individual graphene microscale patterns to arbitrary surfaces. <i>Advanced Materials</i> , 2011 , 23, 3938-43	24	50
47	In situ growth, structure characterization, and enhanced photocatalysis of high-quality, single-crystalline ZnTe/ZnO branched nanoheterostructures. <i>Nanoscale</i> , 2011 , 3, 4418-26	7.7	31
46	Strain dependent resistance in chemical vapor deposition grown graphene. <i>Applied Physics Letters</i> , 2011 , 99, 213107	3.4	177
45	Luminescence blue-shift of CdSe nanowires beyond the quantum confinement regime. <i>Applied Physics Letters</i> , 2011 , 99, 103103	3.4	26
44	Improved performance of ZnO nanowire field-effect transistors via focused ion beam treatment. <i>Nanotechnology</i> , 2011 , 22, 375201	3.4	15
43	Magnetoresistance of Fe ₃ O ₄ -graphene-Fe ₃ O ₄ junctions. <i>Applied Physics Letters</i> , 2011 , 98, 052511	3.4	14
42	Observation of both classical and quantum magnetoresistance in bilayer graphene. <i>Europhysics Letters</i> , 2011 , 94, 57004	1.6	19
41	From positive to negative magnetoresistance in graphene with increasing disorder. <i>Applied Physics Letters</i> , 2011 , 98, 222502	3.4	60
40	Gate voltage dependence of weak localization in bilayer graphene. <i>Applied Physics Letters</i> , 2010 , 97, 163110	3.4	12
39	Confined three-dimensional plasmon modes inside a ring-shaped nanocavity on a silver film imaged by cathodoluminescence microscopy. <i>Physical Review Letters</i> , 2010 , 105, 127402	7.4	33
38	Hysteresis reversion in graphene field-effect transistors. <i>Journal of Chemical Physics</i> , 2010 , 133, 044703	3.9	69
37	Ultrahigh field emission current density from nitrogen-implanted ZnO nanowires. <i>Nanotechnology</i> , 2010 , 21, 095701	3.4	18
36	Ion irradiation induced structural and electrical transition in graphene. <i>Journal of Chemical Physics</i> , 2010 , 133, 234703	3.9	63
35	Evolution of resistive switching over bias duration of single Ag ₂ S nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 203109	3.4	34

34	Ultralow-frequency photocurrent oscillation in ZnO nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 033113	3.4	7
33	Effect of contact barrier on electron transport in graphene. <i>Journal of Chemical Physics</i> , 2010 , 132, 024706	6	13
32	Current regulation of universal conductance fluctuations in bilayer graphene. <i>New Journal of Physics</i> , 2010 , 12, 083016	2.9	10
31	Controllable synthesis and characterization of tube brush-like ZnO nanowires produced via a simple chemical vapor deposition method. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 98, 491-497	2.6	17
30	Enhanced near-band-edge emission and field emission properties from plasma treated ZnO nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 165-170	2.6	13
29	Two-terminal quantized conductance in inhomogeneous graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 3332-3334	2.3	2
28	Temperature dependence of photoelectrical properties of single selenium nanowires. <i>Nanoscale Research Letters</i> , 2010 , 5, 926-9	5	25
27	Single ZnO nanowire/p-type GaN heterojunctions for photovoltaic devices and UV light-emitting diodes. <i>Advanced Materials</i> , 2010 , 22, 4284-7	24	72
26	First-principles study of the formation mechanisms of nitrogen molecule in annealed ZnO. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 3546-3550	2.3	19
25	Hysteresis magnetoresistance and micromagnetic modeling of Ni microbelts. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 2231-2234	2.8	7
24	Gate tunable photoconductivity of p-channel Se nanowire field effect transistors. <i>Applied Physics Letters</i> , 2009 , 95, 093104	3.4	13
23	Influence of temperature and illumination on surface barrier of individual ZnO nanowires. <i>Journal of Chemical Physics</i> , 2009 , 130, 084708	3.9	14
22	Characterization of Mn-doped ZnO nanobelts by electron energy-loss spectroscopy. <i>Journal of Electron Microscopy</i> , 2009 , 58, 295-9		5
21	Ultrathin epitaxial MgB ₂ superconducting films with high critical current density and T _c above 33 K. <i>Superconductor Science and Technology</i> , 2009 , 22, 125015	3.1	22
20	Electronic and Mechanical Coupling in Bent ZnO Nanowires. <i>Advanced Materials</i> , 2009 , 21, 4937-4941	24	128
19	Bending-induced conductance increase in individual semiconductor nanowires and nanobelts. <i>Nano Research</i> , 2009 , 2, 553-557	10	26
18	Temperature dependence of photoconductivity and persistent photoconductivity of single ZnO nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 363-366	2.6	35
17	Resistive switching and metallic-filament formation in Ag ₂ S nanowire transistors. <i>Small</i> , 2009 , 5, 2377-81	81	52

16	Quantum interference effect in single disordered silver nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 1181-1184	2.3	2
15	One-Step Growth and Field Emission Properties of SnO ₂ -Capped Silicon Nanowires: A Sn-Catalyzed Approach. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6450-6453	3.8	5
14	MgB ₂ superconducting whiskers synthesized by using the hybrid physical-chemical vapor deposition. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2436-7	16.4	11
13	Electrical and photoresponse properties of an intramolecular p-n homojunction in single phosphorus-doped ZnO nanowires. <i>Nano Letters</i> , 2009 , 9, 2513-8	11.5	85
12	Photovoltaic effect and charge storage in single ZnO nanowires. <i>Applied Physics Letters</i> , 2008 , 93, 023113	3.4	58
11	The effect of adsorbates on the space-charge-limited current in single ZnO nanowires. <i>Nanotechnology</i> , 2008 , 19, 335204	3.4	31
10	Synthesis and electrical properties of TiSi ₂ nanocables. <i>Applied Physics Letters</i> , 2008 , 92, 253102	3.4	9
9	The relationship between quantum transport and microstructure evolution in carbon-sheathed Pt granular metal nanowires. <i>Nanotechnology</i> , 2008 , 19, 305402	3.4	9
8	Ultralong Single-Crystalline Ag ₂ S Nanowires: Promising Candidates for Photoswitches and Room-Temperature Oxygen Sensors. <i>Advanced Materials</i> , 2008 , 20, 2628-2632	24	109
7	Surface effects on photoluminescence of single ZnO nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 4505-4509	2.3	169
6	Effect of surface states on electron transport in individual ZnO nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 367, 207-210	2.3	128
5	Spin-filter effect in magnetite nanowire. <i>Nano Letters</i> , 2006 , 6, 1087-91	11.5	96
4	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	2.3	13
3	Ultraviolet/Visible Quasicylindrical Waves on Semimetal Cd ₃ As ₂ Nanoplates. <i>Advanced Photonics Research</i> , 2100354	1.9	1
2	Temperature Dependent Exciton Funnel Dynamics in Uniform Strain Gradient Field Observed by Time-Resolved Photoluminescence. <i>Advanced Optical Materials</i> , 2101969	8.1	
1	Bending strain effects on the optical and optoelectric properties of GaN nanowires. <i>Nano Research</i> , 1	10	2