

Ke He

List of Publications by Year in descending order

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130
papers

14,790
citations

36303

51
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18130

120
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133
all docs

133
docs citations

133
times ranked

11049
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical study of PbTe-Pb hybrid nanowires for engineering Majorana zero modes. Physical Review B, 2022, 105, .	3.2	17
2	Selective area epitaxy of PbTe-Pb hybrid nanowires on a lattice-matched substrate. Physical Review Materials, 2022, 6, .	2.4	16
3	Ambi-chiral anomalous Hall effect in magnetically doped topological insulators. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	3
4	Observation of Aharonov-Bohm effect in PbTe nanowire networks. Physical Review B, 2022, 105, .	3.2	7
5	Raise quantum anomalous Hall states up. National Science Review, 2021, 8, nwa214.	9.5	1
6	Incommensurate smectic phase in close proximity to the high-Tc superconductor FeSe/SrTiO3. Nature Communications, 2021, 12, 2196.	12.8	17
7	Observation of current-induced spin polarization in the topological insulator Bi_2Te_3 via circularly polarized photoconductive differential current. Physical Review B, 2021, 104, .		
8	In-plane magnetic field induced helicity dependent photogalvanic effect on the surface states of topological insulators $(\text{Bi}_x\text{Sb}_{1-x})_2\text{Te}_3$. Journal of Applied Physics, 2021, 130, 085305.	2.5	0
9	Quantum Anomalous Hall Effect in Magnetic Topological Insulators. , 2021, , 389-401.		0
10	Robust axion insulator and Chern insulator phases in a two-dimensional antiferromagnetic topological insulator. Nature Materials, 2020, 19, 522-527.	27.5	536
11	Tunable interlayer magnetism and band topology in van der Waals heterostructures of MnBi_2Te_4 -family materials. Physical Review B, 2020, 102, .		
12	MnBi_2Te_4 -family intrinsic magnetic topological materials. Npj Quantum Materials, 2020, 5, .	5.2	55
13	Giant photoinduced anomalous Hall effect of the topological surface states in three dimensional topological insulators Bi_2Te_3 . Applied Physics Letters, 2020, 116, 141603.	3.3	7
14	Electrically Tunable Wafer-Sized Three-Dimensional Topological Insulator Thin Films Grown by Magnetron Sputtering*. Chinese Physics Letters, 2020, 37, 057301.	3.3	9
15	Control of Circular Photogalvanic Effect of Surface States in the Topological Insulator Bi_2Te_3 via Spin Injection. ACS Applied Materials & Interfaces, 2020, 12, 18091-18100.	8.0	18
16	Type-II Ising pairing in few-layer stanene. Science, 2020, 367, 1454-1457.	12.6	81
17	Investigating and manipulating the molecular beam epitaxy growth kinetics of intrinsic magnetic topological insulator MnBi_2Te_4 with <i>in situ</i> angle-resolved photoemission spectroscopy. Journal of Physics Condensed Matter, 2020, 32, 475002.	1.8	21
18	Electronic States and Magnetic Response of MnBi_2Te_4 by Scanning Tunneling Microscopy and Spectroscopy. Nano Letters, 2020, 20, 3271-3277.	9.1	71

#	ARTICLE	IF	CITATIONS
19	Distinct Quantum Anomalous Hall Ground States Induced by Magnetic Disorders. <i>Physical Review X</i> , 2020, 10, .	8.9	10
20	Evidence of anisotropic Majorana bound states in 2M-WS ₂ . <i>Nature Physics</i> , 2019, 15, 1046-1051.	16.7	104
21	Tunable chiral and helical edge state transport in a magnetic topological insulator bilayer. <i>Physical Review B</i> , 2019, 100, .	3.2	4
22	Signature of Superconductivity in Orthorhombic CoSb Monolayer Films on SrTiO ₃ (001). <i>ACS Nano</i> , 2019, 13, 10434-10439.	14.6	13
23	Dimensional Crossover and Topological Nature of the Thin Films of a Three-Dimensional Topological Insulator by Band Gap Engineering. <i>Nano Letters</i> , 2019, 19, 4627-4633.	9.1	16
24	Experimental Realization of an Intrinsic Magnetic Topological Insulator. <i>Chinese Physics Letters</i> , 2019, 36, 076801.	3.3	457
25	Intrinsic magnetic topological insulators in van der Waals layered MnBi ₂ Te ₄ -family materials. <i>Science Advances</i> , 2019, 5, eaaw5685.	10.3	675
26	Quantum anomalous Hall heterostructures. <i>National Science Review</i> , 2019, 6, 202-204.	9.5	9
27	Selective trapping of hexagonally warped topological surface states in a triangular quantum corral. <i>Science Advances</i> , 2019, 5, eaaw3988.	10.3	6
28	The Road to High-Temperature Quantum Anomalous Hall Effect in Magnetic Topological Insulators. <i>Spin</i> , 2019, 09, .	1.3	6
29	Helicity-dependent photocurrent of the top and bottom Dirac surface states of epitaxial thin films of three-dimensional topological insulators. <i>Physical Review B</i> , 2019, 100, .	3.2	19
30	Superconductivity in few-layer stanene. <i>Nature Physics</i> , 2018, 14, 344-348.	16.7	182
31	Extensive impurity-scattering study on the pairing symmetry of monolayer FeSe films on SrTiO ₃ . <i>Physical Review B</i> , 2018, 97, .	16.7	182
32	Anisotropic superconductivity and elongated vortices with unusual bound states in quasi-one-dimensional nickel-bismuth compounds. <i>Physical Review B</i> , 2018, 97, .	3.2	12
33	Topological Materials: Quantum Anomalous Hall System. <i>Annual Review of Condensed Matter Physics</i> , 2018, 9, 329-344.	14.5	134
34	Enhancing the Quantum Anomalous Hall Effect by Magnetic Codoping in a Topological Insulator. <i>Advanced Materials</i> , 2018, 30, 1703062.	21.0	141
35	Observation of interface superconductivity in a SnSe ₂ /epitaxial graphene van der Waals heterostructure. <i>Physical Review B</i> , 2018, 98, .	3.2	12
36	Edge States at Nematic Domain Walls in FeSe Films. <i>Nano Letters</i> , 2018, 18, 7176-7180.	9.1	16

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37	Direct evidence of ferromagnetism in a quantum anomalous Hall system. Nature Physics, 2018, 14, 791-795.	16.7	65
38	Atomic visualization of copper oxide structure in the infinite-layer cuprate SrCu_2O . Physical Review B, 2018, 97, .	3.2	14
39	Realizing an Epitaxial Decorated Stanene with an Insulating Bandgap. Advanced Functional Materials, 2018, 28, 1802723.	14.9	63
40	Experimental evidence of the thickness- and electric-field-dependent topological phase transitions in topological crystalline insulator SnTe(111) thin films. Nano Research, 2018, 11, 6045-6050.	10.4	5
41	Surface symmetry breaking and disorder effects on superconductivity in perovskite BaBi ₃ epitaxial films. Physical Review B, 2018, 98, .	3.2	1
42	Quantum Anomalous Hall Multilayers Grown by Molecular Beam Epitaxy. Chinese Physics Letters, 2018, 35, 076802.	3.3	34
43	Two-dimensional superconductivity and topological states in PdTe_2 thin films. Physical Review Materials, 2018, 2, .	2.4	57
44	Photodetectors: Broadband High-Responsivity Photodetectors Based on Large-Scale Topological Crystalline Insulator SnTe Ultrathin Film Grown by Molecular Beam Epitaxy (Advanced Optical) Tj ETQq 0 0 rgBT / Overlock 10 Tf 50 457	10.0	10
45	A parity-time symmetry single-mode laser based on graphene. Journal of Modern Optics, 2017, 64, 2133-2140.	1.3	0
46	Broadband High-Responsivity Photodetectors Based on Large-Scale Topological Crystalline Insulator SnTe Ultrathin Film Grown by Molecular Beam Epitaxy. Advanced Optical Materials, 2017, 5, 1600727.	7.3	48
47	Gate-Variable Mid-Infrared Optical Transitions in a $(\text{BiSb})_2\text{Te}_3$ Topological Insulator. Nano Letters, 2017, 17, 255-260.	9.1	27
48	Dimensional Crossover-Induced Topological Hall Effect in a Magnetic Topological Insulator. Physical Review Letters, 2017, 119, 176809.	7.8	93
49	Ferromagnetism in vanadium-doped Bi ₂ Se ₃ topological insulator films. APL Materials, 2017, 5, .	5.1	27
50	Magnetic quantum phase transition in Cr-doped Bi ₂ (S _x Te _{1-x}) ₃ driven by the Stark effect. Nature Nanotechnology, 2017, 12, 953-957.	31.5	22
51	Photoinduced Inverse Spin Hall Effect of Surface States in the Topological Insulator Bi ₂ Se ₃ . Nano Letters, 2017, 17, 7878-7885.	9.1	29
52	Enhanced electron dephasing in three-dimensional topological insulators. Nature Communications, 2017, 8, 16071.	12.8	41
53	Ambi-polar anomalous Nernst effect in a magnetic topological insulator. New Journal of Physics, 2017, 19, 113009.	2.9	4
54	Graphene integrated hybrid silicon DFB laser. , 2017, , .		0

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73	Observation of Dirac fermions in magnetically doped topological insulator films. Physical Review Letters, 2014, 112, 057002.	3.2	22
74	Crystallinity of tellurium capping and epitaxy of ferromagnetic topological insulator films on SrTiO ₃ . Scientific Reports, 2015, 5, 11595.	3.3	14
75	Nanoscale superconductivity of In_2S_3 -Ga islands grown by molecular beam epitaxy. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	5.1	1
76	Visualizing superconductivity in FeSe nanoflakes on SrTiO ₃ by scanning tunneling microscopy. Physical Review B, 2015, 91, .	3.2	10
77	Detection of a Superconducting Phase in a Two-Atom Layer of Hexagonal Ga Film Grown on Semiconducting GaN(0001). Physical Review Letters, 2015, 114, 107003.	7.8	81
78	Simultaneous Electrical-Field-Effect Modulation of Both Top and Bottom Dirac Surface States of Epitaxial Thin Films of Three-Dimensional Topological Insulators. Nano Letters, 2015, 15, 1090-1094.	9.1	19
79	Disentangling the magnetoelectric and thermoelectric transport in topological insulator thin films. Physical Review B, 2015, 91, .	3.2	32
80	Probing Dirac Fermion Dynamics in Topological Insulator with a Scanning Tunneling Microscope. Physical Review Letters, 2015, 114, 176602.	7.8	15
81	Observation of Dirac Fermion Dynamics in Topological Insulator with a Scanning Tunneling Microscope. Physical Review Letters, 2015, 114, 176602.	3.2	48
82	Observation of Anderson Localization in Ultrathin Films of Three-Dimensional Topological Insulators. Physical Review Letters, 2015, 114, 216601.	7.8	82
83	Molecular Beam Epitaxy-Grown SnSe in the Rock-Salt Structure: An Artificial Topological Crystalline Insulator Material. Advanced Materials, 2015, 27, 4150-4154.	21.0	83
84	Chemical-Potential-Dependent Gap Opening at the Dirac Surface States of Bi_2Te_3 by Aggregated Substitutional Cr Atoms. Physical Review Letters, 2014, 112, 056801.	7.8	102
85	Topological crystalline insulator $\text{Pb}_x\text{Sn}_{1-x}\text{Te}$ thin films on SrTiO ₃ (001) with tunable Fermi levels. APL Materials, 2014, 2, .	5.1	15
86	Imaging the Electron-Boson Coupling in Superconducting FeSe Films Using a Scanning Tunneling Microscope. Physical Review Letters, 2014, 112, 057002.	7.8	31
87	Experimental Observation of Dirac-like Surface States and Topological Phase Transition in $\text{Pb}_1\text{Te}_{1-x}\text{Sn}_x$ thin films. Physical Review Letters, 2014, 112, 186801.	7.8	109
88	Quantum anomalous Hall effect. National Science Review, 2014, 1, 38-48.	9.5	102
89	Electrically tuned magnetic order and magnetoresistance in a topological insulator. Nature Communications, 2014, 5, 4915.	12.8	47
90	Interface charge doping effects on superconductivity of single-unit-cell FeSe films on SrTiO ₃ . Physical Review B, 2014, 89, .	7.8	128

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91	Quantum and Classical Magnetoresistance in Ambipolar Topological Insulator Transistors with Gate-tunable Bulk and Surface Conduction. <i>Scientific Reports</i> , 2014, 4, 4859.	3.3	62
92	Crossover between Weak Antilocalization and Weak Localization of Bulk States in Ultrathin Bi ₂ Se ₃ Films. <i>Scientific Reports</i> , 2014, 4, 5817.	3.3	52
93	Superconductivity in Ca-intercalated epitaxial graphene on silicon carbide. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	58
94	From magnetically doped topological insulator to the quantum anomalous Hall effect. <i>Chinese Physics B</i> , 2013, 22, 067305.	1.4	35
95	Fully gapped topological surface states in Bi ₂ Se ₃ films induced by a d-wave high-temperature superconductor. <i>Nature Physics</i> , 2013, 9, 621-625.	16.7	149
96	Thin Films of Magnetically Doped Topological Insulator with Carrier-Independent Long-Range Ferromagnetic Order. <i>Advanced Materials</i> , 2013, 25, 1065-1070.	21.0	246
97	Topology-Driven Magnetic Quantum Phase Transition in Topological Insulators. <i>Science</i> , 2013, 339, 1582-1586.	12.6	206
98	Experimental Observation of the Quantum Anomalous Hall Effect in a Magnetic Topological Insulator. <i>Science</i> , 2013, 340, 167-170.	12.6	2,821
99	Tunable photoresponse of epitaxial graphene on SiC. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	26
100	Scanning tunneling microscopy study of the superconducting properties of three-atomic-layer Pb films. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	10
101	Conductance fluctuation and weak antilocalization in epitaxial Bi ₂ Se ₃ . , 2013, , .		0
102	Demonstration of surface transport in a hybrid Bi ₂ Se ₃ /Bi ₂ Te ₃ heterostructure. <i>Scientific Reports</i> , 2013, 3, 3060.	3.3	67
103	Superconductivity in a single-layer alkali-doped FeSe: A weakly coupled two-leg ladder system. <i>Physical Review B</i> , 2013, 88, .	3.2	11
104	Transport properties of Sb ₂ Te ₃ /Bi ₂ Te ₃ topological insulator heterostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 142-144.	2.4	14
105	Molecular beam epitaxy of bilayer Bi(111) films on topological insulator Bi ₂ Te ₃ : A scanning tunneling microscopy study. <i>Applied Physics Letters</i> , 2012, 101, 081603.	3.3	59
106	Gating the charge state of single Fe dopants in the topological insulator Bi ₂ Se ₃ with a scanning tunneling microscope. <i>Physical Review B</i> , 2012, 86, .	3.2	42
107	Crossover between Weak Antilocalization and Weak Localization in a Magnetically Doped Topological Insulator. <i>Physical Review Letters</i> , 2012, 108, 036805.	7.8	295
108	Interface-Induced High-Temperature Superconductivity in Single Unit-Cell FeSe Films on SrTiO ₃ . <i>Chinese Physics Letters</i> , 2012, 29, 037402.	3.3	972

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109	Phase separation and magnetic order in K-doped iron selenide superconductor. Nature Physics, 2012, 8, 126-130.	16.7	280
110	Anomalous anisotropic magnetoresistance in topological insulator films. Nano Research, 2012, 5, 739-746.	10.4	71
111	Interplay between topological insulators and superconductors. Physical Review B, 2012, 85, .	3.2	47
112	Topological insulator: Both two- and three-dimensional. Frontiers of Physics, 2012, 7, 148-149.	5.0	1
113	Structural defects and electronic properties of the Cu-doped topological insulator Bi ₂ Te ₃ . Electron interaction-driven insulating ground state in Bi ₂ Te ₃ . Band structure engineering in (Bi _{1-x} Sb _x) ₂ Te ₃ ternary topological insulators. Nature Communications, 2011, 2, 574.	3.2	70
114	Band structure engineering in (Bi _{1-x} Sb _x) ₂ Te ₃ ternary topological insulators. Nature Communications, 2011, 2, 574.	3.2	226
115	Band structure engineering in (Bi _{1-x} Sb _x) ₂ Te ₃ ternary topological insulators. Nature Communications, 2011, 2, 574.	12.8	460
116	Evidence for electron-electron interaction in topological insulator thin films. Physical Review B, 2011, 83, .	3.2	244
117	Molecular-beam epitaxy and robust superconductivity of stoichiometric FeSe crystalline films on bilayer graphene. Physical Review B, 2011, 84, .	3.2	146
118	Power-law decay of standing waves on the surface of topological insulators. Physical Review B, 2011, 84, .	3.2	69
119	GROWTH OF QUANTUM WELL FILMS OF TOPOLOGICAL INSULATOR Bi ₂ Te ₃ ON INSULATING SUBSTRATE. Spin, 2011, 01, 21-25.	1.3	41
120	Atomically smooth ultrathin films of topological insulator Sb ₂ Te ₃ . Nano Research, 2010, 3, 874-880.	10.4	104
121	Intrinsic Topological Insulator Bi ₂ Te ₃ Thin Films on Si and Their Thickness Limit. Advanced Materials, 2010, 22, 4002-4007.	21.0	376
122	Superconductivity in one-atomic-layer metal films grown on Si(111). Nature Physics, 2010, 6, 104-108.	16.7	479
123	Crossover of the three-dimensional topological insulator Bi ₂ Se ₃ to the two-dimensional limit. Nature Physics, 2010, 6, 584-588.	16.7	1,227
124	Topological insulator Bi ₂ Se ₃ thin films grown on double-layer graphene by molecular beam epitaxy. Applied Physics Letters, 2010, 97, .	3.3	154
125	Selective adsorption and electronic interaction of F ₁₆ CuPcon epitaxial graphene. Physical Review B, 2010, 82, .	3.2	37
126	Doping effects of Sb and Pb in epitaxial topological insulator Bi ₂ Se ₃ thin films: An <i>in situ</i> angle-resolved photoemission spectroscopy study. Applied Physics Letters, 2010, 97, .	3.3	43

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127	Spin-Split Quantum-Well States Induced by Hybridization with Rashba-Split Surface States. Hyomen Kagaku, 2010, 31, 493-499.	0.0	0
128	Experimental Demonstration of Topological Surface States Protected by Time-Reversal Symmetry. Physical Review Letters, 2009, 103, 266803.	7.8	653
129	Two-dimensional growth of Fe thin films with perpendicular magnetic anisotropy on GaN(0001). Applied Physics Letters, 2006, 88, 232503.	3.3	16
130	Growth and magnetism of self-organized Co nanoplatelets on Si(111) surface. Surface and Interface Analysis, 2006, 38, 1028-1033.	1.8	8