

Xi Dai

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.

198
papers

39,615
citations

77
h-index

199
g-index

207
ext. papers

45,812
ext. citations

7.1
avg, IF

7.41
L-index

#	Paper	IF	Citations
198	Spin-Polarized Nematic Order, Quantum Valley Hall States, and Field-Tunable Topological Transitions in Twisted Multilayer Graphene Systems.. <i>Physical Review Letters</i> , 2022 , 128, 026403	7.4	4
197	RTGW2020: An efficient implementation of the multi-orbital Gutzwiller method with general local interactions. <i>Computer Physics Communications</i> , 2022 , 276, 108348	4.2	
196	Orbital magnetic states in moiré-graphene systems. <i>Nature Reviews Physics</i> , 2021 , 3, 367-382	23.6	6
195	Differentiable programming and density matrix based Hartree-Fock method*. <i>Chinese Physics B</i> , 2021 , 30, 060701	1.2	
194	Machine Learning Kinetic Energy Functional for a One-Dimensional Periodic System. <i>Chinese Physics Letters</i> , 2021 , 38, 050701	1.8	1
193	Theories for the correlated insulating states and quantum anomalous Hall effect phenomena in twisted bilayer graphene. <i>Physical Review B</i> , 2021 , 103,	3.3	36
192	First Principle Calculation of the Effective Zeeman Couplings in Topological Materials 2021 , 263-281		1
191	Anomalous Hall effect, magneto-optical properties, and nonlinear optical properties of twisted graphene systems. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	21
190	Topological metals induced by the Zeeman effect. <i>Physical Review B</i> , 2020 , 101,	3.3	8
189	Special topic on topological semimetals—New directions. <i>APL Materials</i> , 2020 , 8, 030401	5.7	4
188	Magnetic Semimetals and Quantized Anomalous Hall Effect in EuB ₆ . <i>Physical Review Letters</i> , 2020 , 124, 076403	7.4	25
187	Strong and fragile topological Dirac semimetals with higher-order Fermi arcs. <i>Nature Communications</i> , 2020 , 11, 627	17.4	68
186	Topological properties and orbital magnetism in twisted graphene systems. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 147301	0.6	6
185	40 years of the quantum Hall effect. <i>Nature Reviews Physics</i> , 2020 , 2, 397-401	23.6	18
184	Experimental evidence for orbital magnetic moments generated by moiré-scale current loops in twisted bilayer graphene. <i>Physical Review B</i> , 2020 , 102,	3.3	16
183	Giant Magnetic Quantum Oscillations in the Thermal Conductivity of TaAs: Indications of Chiral Zero Sound. <i>Physical Review X</i> , 2019 , 9,	9.1	10
182	Hear the Sound of Weyl Fermions. <i>Physical Review X</i> , 2019 , 9,	9.1	16

181	Pseudo Landau level representation of twisted bilayer graphene: Band topology and implications on the correlated insulating phase. <i>Physical Review B</i> , 2019 , 99,	3.3	106
180	Symmetry-enforced chiral hinge states and surface quantum anomalous Hall effect in the magnetic axion insulator Bi ₂ SmxSe ₃ . <i>Nature Physics</i> , 2019 , 15, 577-581	16.2	59
179	Determining Interaction Enhanced Valley Susceptibility in Spin-Valley-Locked MoS. <i>Nano Letters</i> , 2019 , 19, 1736-1742	11.5	21
178	Quantum Valley Hall Effect, Orbital Magnetism, and Anomalous Hall Effect in Twisted Multilayer Graphene Systems. <i>Physical Review X</i> , 2019 , 9,	9.1	77
177	Higher-Order Topology of the Axion Insulator EuIn ₂ As ₂ . <i>Physical Review Letters</i> , 2019 , 122, 2564027.4		90
176	Charge density waves in a quantum plasma. <i>Physical Review B</i> , 2019 , 100,	3.3	1
175	Quantum Anomalous Vortex and Majorana Zero Mode in Iron-Based Superconductor Fe(Te,Se). <i>Physical Review X</i> , 2019 , 9,	9.1	23
174	CT-X: An efficient continuous-time quantum Monte Carlo impurity solver in the Kondo regime. <i>Computer Physics Communications</i> , 2019 , 236, 135-152	4.2	2
173	Antiferromagnetic Chern Insulators in Noncentrosymmetric Systems. <i>Physical Review Letters</i> , 2018 , 120, 157205	7.4	15
172	Three-component fermions with surface Fermi arcs in tungsten carbide. <i>Nature Physics</i> , 2018 , 14, 349-3546.2	46.2	75
171	Recent Progress in the Study of Topological Semimetals. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 041001	1.5	69
170	Magnetic-field enhanced high-thermoelectric performance in topological Dirac semimetal Cd ₃ As ₂ crystal. <i>Science Bulletin</i> , 2018 , 63, 411-418	10.6	40
169	Topological Insulators versus Topological Dirac Semimetals in Honeycomb Compounds. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13687-13694	16.4	21
168	Visualization of electronic topology in ZrSiSe by scanning tunneling microscopy. <i>Physical Review B</i> , 2018 , 98,	3.3	6
167	Magnetotransport properties in a compensated semimetal gray arsenic. <i>Physical Review B</i> , 2017 , 95,	3.3	16
166	Pressure-induced topological phase transitions and strongly anisotropic magnetoresistance in bulk black phosphorus. <i>Physical Review B</i> , 2017 , 95,	3.3	24
165	Topological nodal line semimetals in the CaP ₃ family of materials. <i>Physical Review B</i> , 2017 , 95,	3.3	142
164	Topologically Entangled Rashba-Split Shockley States on the Surface of Grey Arsenic. <i>Physical Review Letters</i> , 2017 , 118, 046802	7.4	20

163	Heavy Weyl Fermion State in CeRu ₄ Sn ₆ . <i>Physical Review X</i> , 2017 , 7,	9.1	30
162	Electronic evidence of temperature-induced Lifshitz transition and topological nature in ZrTe ₅ . <i>Nature Communications</i> , 2017 , 8, 15512	17.4	131
161	Anomalous Magneto-Transport Behavior in Transition Metal Pentatelluride HfTe ₅ . <i>Chinese Physics Letters</i> , 2017 , 34, 037102	1.8	13
160	Noncollinear Magnetic Structure and Multipolar Order in Eu ₂ Ir ₂ O ₇ . <i>Physical Review Letters</i> , 2017 , 119, 187203	7.4	9
159	Coherent helix vacancy phonon and its ultrafast dynamics waning in topological Dirac semimetal Cd ₃ As ₂ . <i>Physical Review B</i> , 2017 , 95,	3.3	19
158	Instability of Dirac semimetal phase under a strong magnetic field. <i>Physical Review B</i> , 2017 , 96,	3.3	6
157	Implementation of LDA+Gutzwiller with Newtons method. <i>Chinese Physics B</i> , 2017 , 26, 017103	1.2	1
156	Topological nodal line semimetals predicted from first-principles calculations. <i>Frontiers of Physics</i> , 2017 , 12, 1	3.7	91
155	Lifshitz transition mediated electronic transport anomaly in bulk ZrTe ₅ . <i>New Journal of Physics</i> , 2017 , 19, 015005	2.9	43
154	A new member of the topological semimetals family. <i>National Science Review</i> , 2017 , 4, 798-799	10.8	5
153	Observation of Weyl nodes and Fermi arcs in tantalum phosphide. <i>Nature Communications</i> , 2016 , 7, 11006	6.4	224
152	Hybrid Weyl semimetal. <i>Physical Review B</i> , 2016 , 94,	3.3	36
151	Electronic structure, Dirac points and Fermi arc surface states in three-dimensional Dirac semimetal Na ₃ Bi from angle-resolved photoemission spectroscopy. <i>Chinese Physics B</i> , 2016 , 25, 077101	1.2	14
150	Determining the chirality of Weyl fermions from circular dichroism spectra in time-dependent angle-resolved photoemission. <i>Physical Review B</i> , 2016 , 93,	3.3	19
149	Topological semimetals with triply degenerate nodal points in phase tantalum nitride. <i>Physical Review B</i> , 2016 , 93,	3.3	187
148	Evidence for Topological Edge States in a Large Energy Gap near the Step Edges on the Surface of ZrTe ₅ . <i>Physical Review X</i> , 2016 , 6,	9.1	82
147	Doping-driven orbital-selective Mott transition in multi-band Hubbard models with crystal field splitting. <i>Chinese Physics B</i> , 2016 , 25, 037103	1.2	2
146	Topological nodal line semimetals. <i>Chinese Physics B</i> , 2016 , 25, 117106	1.2	358

145	Strong charge and spin fluctuations in La ₂ O ₃ Fe ₂ Se ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	4
144	Topological semimetals predicted from first-principles calculations. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 303001	1.8	202
143	Weyl semimetals: A group family picture. <i>Nature Materials</i> , 2016 , 15, 5-6	27	6
142	Spontaneous Formation of a Superconductor-Topological Insulator-Normal Metal Layered Heterostructure. <i>Advanced Materials</i> , 2016 , 28, 5013-7	24	22
141	Giant semiclassical magnetoresistance in high mobility TaAs ₂ semimetal. <i>Applied Physics Letters</i> , 2016 , 108, 042105	3.4	56
140	Observation of Fermi arc and its connection with bulk states in the candidate type-II Weyl semimetal WTe ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	158
139	Detecting the chiral magnetic effect by lattice dynamics in Weyl semimetals. <i>Physical Review B</i> , 2016 , 94,	3.3	40
138	Coexistence of Weyl fermion and massless triply degenerate nodal points. <i>Physical Review B</i> , 2016 , 94,	3.3	140
137	Pseudospin, real spin, and spin polarization of photoemitted electrons. <i>Physical Review B</i> , 2016 , 94,	3.3	5
136	MoTe ₂ : A Type-II Weyl Topological Metal. <i>Physical Review Letters</i> , 2016 , 117, 056805	7.4	286
135	iQIST: An open source continuous-time quantum Monte Carlo impurity solver toolkit. <i>Computer Physics Communications</i> , 2015 , 195, 140-160	4.2	31
134	Weyl Semimetal Phase in Noncentrosymmetric Transition-Metal Monophosphides. <i>Physical Review X</i> , 2015 , 5,	9.1	968
133	Model Hamiltonian for topological Kondo insulator SmB ₆ . <i>New Journal of Physics</i> , 2015 , 17, 023012	2.9	19
132	Electronic structure of transition metal dichalcogenides PdTe ₂ and Cu _{0.05} PdTe ₂ superconductors obtained by angle-resolved photoemission spectroscopy. <i>Chinese Physics B</i> , 2015 , 24, 067401	1.2	16
131	Surface State Bands in Superconducting (Pt x Ir _{1-x})Te ₂ . <i>Chinese Physics Letters</i> , 2015 , 32, 077402	1.8	1
130	Identification of Topological Surface State in PdTe ₂ Superconductor by Angle-Resolved Photoemission Spectroscopy. <i>Chinese Physics Letters</i> , 2015 , 32, 067303	1.8	47
129	Quantum anomalous Hall effect and related topological electronic states. <i>Advances in Physics</i> , 2015 , 64, 227-282	18.4	251
128	Landau level splitting in Cd ₃ As ₂ under high magnetic fields. <i>Nature Communications</i> , 2015 , 6, 7779	17.4	98

127	Observation of Weyl nodes in TaAs. <i>Nature Physics</i> , 2015 , 11, 724-727	16.2	683
126	Type-II Weyl semimetals. <i>Nature</i> , 2015 , 527, 495-8	50.4	1482
125	Interaction-induced quantum anomalous Hall phase in (111) bilayer of LaCoO ₃ . <i>Physical Review B</i> , 2015 , 91,	3.3	40
124	Breakdown of three-dimensional Dirac semimetal state in pressurized Cd ₃ As ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	30
123	Topological node-line semimetal in three-dimensional graphene networks. <i>Physical Review B</i> , 2015 , 92,	3.3	488
122	Large-gap two-dimensional topological insulator in oxygen functionalized MXene. <i>Physical Review B</i> , 2015 , 92,	3.3	169
121	Topological nature of the FeSe _{0.5} Te _{0.5} superconductor. <i>Physical Review B</i> , 2015 , 92,	3.3	129
120	Two-dimensional oxide topological insulator with iron-pnictide superconductor LiFeAs structure. <i>Physical Review B</i> , 2015 , 92,	3.3	120
119	Topological Node-Line Semimetal and Dirac Semimetal State in Antiperovskite Cu ₃ PdN. <i>Physical Review Letters</i> , 2015 , 115, 036807	7.4	524
118	Observation of Fermi-Arc Spin Texture in TaAs. <i>Physical Review Letters</i> , 2015 , 115, 217601	7.4	89
117	Observation of the Chiral-Anomaly-Induced Negative Magnetoresistance in 3D Weyl Semimetal TaAs. <i>Physical Review X</i> , 2015 , 5,	9.1	752
116	Thermodynamics of the \mathbb{Z}_2 transition in cerium studied by an LDA + Gutzwiller method. <i>Physical Review B</i> , 2015 , 91,	3.3	10
115	Evidence for Half-Metallicity in n-type HgCr ₂ Se ₄ . <i>Physical Review Letters</i> , 2015 , 115, 087002	7.4	52
114	Experimental Discovery of Weyl Semimetal TaAs. <i>Physical Review X</i> , 2015 , 5,	9.1	1167
113	Anomalous High-Energy Waterfall-Like Electronic Structure in 5 d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling. <i>Scientific Reports</i> , 2015 , 5, 13036	4.9	15
112	Large linear magnetoresistance in Dirac semimetal Cd ₃ As ₂ with Fermi surfaces close to the Dirac points. <i>Physical Review B</i> , 2015 , 92,	3.3	139
111	Evidence of topological surface state in three-dimensional Dirac semimetal Cd ₃ As ₂ . <i>Scientific Reports</i> , 2014 , 4, 6106	4.9	131
110	A stable three-dimensional topological Dirac semimetal Cd ₃ As ₂ . <i>Nature Materials</i> , 2014 , 13, 677-81	27	1010

109	Topological crystalline Kondo insulator in mixed valence ytterbium borides. <i>Physical Review Letters</i> , 2014 , 112, 016403	7.4	123
108	Discovery of a three-dimensional topological Dirac semimetal, Na ₃ Bi. <i>Science</i> , 2014 , 343, 864-7	33.3	1516
107	Time-reversal-invariant topological superconductivity in doped Weyl semimetals. <i>Physical Review B</i> , 2014 , 90,	3.3	91
106	Exploration and prediction of topological electronic materials based on first-principles calculations. <i>MRS Bulletin</i> , 2014 , 39, 849-858	3.2	65
105	Transition-Metal Pentatelluride ZrTe ₅ and HfTe ₅ : A Paradigm for Large-Gap Quantum Spin Hall Insulators. <i>Physical Review X</i> , 2014 , 4,	9.1	196
104	Direct observation of the spin texture in SmB ₆ as evidence of the topological Kondo insulator. <i>Nature Communications</i> , 2014 , 5, 4566	17.4	155
103	Orbital-dependent electronic masses in Ce heavy-fermion materials studied via Gutzwiller density-functional theory. <i>Physical Review B</i> , 2014 , 89,	3.3	14
102	Strong anisotropy of Dirac cones in SrMnBi ₂ and CaMnBi ₂ revealed by angle-resolved photoemission spectroscopy. <i>Scientific Reports</i> , 2014 , 4, 5385	4.9	71
101	Topological insulator to Dirac semimetal transition driven by sign change of spin-orbit coupling in thallium nitride. <i>Physical Review B</i> , 2014 , 90,	3.3	35
100	Wilson-loop characterization of inversion-symmetric topological insulators. <i>Physical Review B</i> , 2014 , 89,	3.3	188
99	Parallel field magnetoresistance in topological insulator thin films. <i>Physical Review B</i> , 2013 , 88,	3.3	50
98	The electronic structure of NaIrO ₃ , Mott insulator or band insulator?. <i>Europhysics Letters</i> , 2013 , 101, 27003	1.6	20
97	Metal-insulator transition in three-band Hubbard model with strong spin-orbit interaction. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	20
96	Three-dimensional Dirac semimetal and quantum transport in Cd ₃ As ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	1094
95	Correlated topological insulators with mixed valence. <i>Physical Review Letters</i> , 2013 , 110, 096401	7.4	245
94	Persistent high-energy spin excitations in iron-pnictide superconductors. <i>Nature Communications</i> , 2013 , 4, 1470	17.4	83
93	Thin films of magnetically doped topological insulator with carrier-independent long-range ferromagnetic order. <i>Advanced Materials</i> , 2013 , 25, 1065-70	24	201
92	Experimental observation of the quantum anomalous Hall effect in a magnetic topological insulator. <i>Science</i> , 2013 , 340, 167-70	33.3	2044

91	Acceleration of the Stochastic Analytic Continuation Method via an Orthogonal Polynomial Representation of the Spectral Function. <i>Chinese Physics Letters</i> , 2013 , 30, 090201	1.8	5
90	Topological charge pumping in a one-dimensional optical lattice. <i>Physical Review Letters</i> , 2013 , 111, 026802	3.0	103
89	LOCAL ENTANGLEMENT ENTROPY AT THE MOTT METAL-INSULATOR TRANSITION IN INFINITE DIMENSIONS. <i>Modern Physics Letters B</i> , 2013 , 27, 1350034	1.6	1
88	Photogalvanic in ultrathin film of topological insulator. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 895-899	3	14
87	The mechanism of anisotropic exchange interaction in superconducting iron arsenides. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 1759-1761	2.3	2
86	Efficient implementation of the Gutzwiller variational method. <i>Physical Review B</i> , 2012 , 85,	3.3	53
85	Complete phase diagram for three-band Hubbard model with orbital degeneracy lifted by crystal field splitting. <i>Physical Review B</i> , 2012 , 86,	3.3	17
84	Pressure-driven quantum criticality in iron-selenide superconductors. <i>Physical Review Letters</i> , 2012 , 108, 197001	7.4	48
83	Crossover between weak antilocalization and weak localization in a magnetically doped topological insulator. <i>Physical Review Letters</i> , 2012 , 108, 036805	7.4	253
82	Pressure-driven orbital selective insulator-to-metal transition and spin-state crossover in cubic CoO. <i>Physical Review B</i> , 2012 , 85,	3.3	25
81	Multi-Weyl topological semimetals stabilized by point group symmetry. <i>Physical Review Letters</i> , 2012 , 108, 266802	7.4	366
80	Implementation of LDA+DMFT with the pseudo-potential-plane-wave method. <i>Chinese Physics B</i> , 2012 , 21, 057106	1.2	9
79	Density functional theory for atomic Fermi gases. <i>Nature Physics</i> , 2012 , 8, 601-605	16.2	31
78	Introduction to Topological Insulators 2012 , 01, 31-36		2
77	Re-emerging superconductivity at 48 kelvin in iron chalcogenides. <i>Nature</i> , 2012 , 483, 67-9	50.4	260
76	Spin conduction in anisotropic three-dimensional topological insulators. <i>Physical Review B</i> , 2012 , 85,	3.3	9
75	Dirac semimetal and topological phase transitions in A ₃ Bi (A=Na, K, Rb). <i>Physical Review B</i> , 2012 , 85,	3.3	1244
74	Superconductivity of topological matters induced via pressure. <i>Frontiers of Physics</i> , 2012 , 7, 193-199	3.7	27

73	Spin waves in the block checkerboard antiferromagnetic phase. <i>Chinese Physics B</i> , 2012 , 21, 027502	1.2	5
72	Effect of Cleaving Temperature on the Surface and Bulk Fermi Surface of Sr ₂ RuO ₄ Investigated by High Resolution Angle-Resolved Photoemission. <i>Chinese Physics Letters</i> , 2012 , 29, 067401	1.8	3
71	Orbital characters determined from Fermi surface intensity patterns using angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2012 , 85,	3.3	43
70	Isotropic superconducting gaps with enhanced pairing on electron Fermi surfaces in FeTe _{0.55} Se _{0.45} . <i>Physical Review B</i> , 2012 , 85,	3.3	120
69	Fermi surface sheet-dependent band splitting in Sr ₂ RuO ₄ revealed by high-resolution angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2012 , 86,	3.3	8
68	Correlation between superconductivity and antiferromagnetism in Rb _{0.8} Fe ₂ Se ₂ Te _x single crystals. <i>Physical Review B</i> , 2012 , 85,	3.3	17
67	Pole expansion of self-energy and interaction effect for topological insulators. <i>Physical Review B</i> , 2012 , 85,	3.3	18
66	Robustness of topological order and formation of quantum well states in topological insulators exposed to ambient environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3694-8	11.5	139
65	Interaction-induced topological phase transition in the Bernevig-Hughes-Zhang model. <i>Europhysics Letters</i> , 2012 , 98, 57001	1.6	28
64	Electronic structure of optimally doped pnictide Ba _{0.6} K _{0.4} Fe ₂ As ₂ : a comprehensive angle-resolved photoemission spectroscopy investigation. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 135701	1.8	76
63	Equivalent expression of Z ₂ topological invariant for band insulators using the non-Abelian Berry connection. <i>Physical Review B</i> , 2011 , 84,	3.3	494
62	Absence of a holelike Fermi surface for the iron-based K _{0.8} F _{1.7} Se ₂ superconductor revealed by angle-resolved photoemission spectroscopy. <i>Physical Review Letters</i> , 2011 , 106, 187001	7.4	288
61	Chern semimetal and the quantized anomalous Hall effect in HgCr ₂ Se ₄ . <i>Physical Review Letters</i> , 2011 , 107, 186806	7.4	960
60	Pressure-induced superconductivity in topological parent compound Bi ₂ Te ₃ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 24-8	11.5	236
59	Half-metallic surface states and topological superconductivity in NaCoO ₂ from first principles. <i>Physical Review B</i> , 2011 , 84,	3.3	27
58	Topological aspect and quantum magnetoresistance of BiAg ₂ Te. <i>Physical Review Letters</i> , 2011 , 106, 156808	7.4	155
57	Intermediate-pressure phases of cerium studied by an LDA + Gutzwiller method. <i>Physical Review B</i> , 2011 , 84,	3.3	14
56	Frequency domain winding number and interaction effect on topological insulators. <i>Physical Review B</i> , 2011 , 84,	3.3	18

55	A precise method for visualizing dispersive features in image plots. <i>Review of Scientific Instruments</i> , 2011 , 82, 043712	1.7	163
54	Crossover of the three-dimensional topological insulator Bi ₂ Se ₃ to the two-dimensional limit. <i>Nature Physics</i> , 2010 , 6, 584-588	16.2	1048
53	Topological insulator Bi ₂ Se ₃ thin films grown on double-layer graphene by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2010 , 97, 143118	3.4	140
52	Pressure-induced competition between superconductivity and Kondo effect in CeFeAsO 1-x F x (x=0.16 and 0.3). <i>Europhysics Letters</i> , 2010 , 91, 57008	1.6	17
51	Gutzwiller density functional studies of FeAs-based superconductors: structure optimization and evidence for a three-dimensional Fermi surface. <i>Physical Review Letters</i> , 2010 , 104, 047002	7.4	58
50	Observation of Dirac cone electronic dispersion in BaFe ₂ As ₂ . <i>Physical Review Letters</i> , 2010 , 104, 137001	7.4	196
49	Model Hamiltonian for topological insulators. <i>Physical Review B</i> , 2010 , 82,	3.3	563
48	Oscillatory crossover from two-dimensional to three-dimensional topological insulators. <i>Physical Review B</i> , 2010 , 81,	3.3	389
47	First-principles studies of the three-dimensional strong topological insulators Bi ₂ Te ₃ , Bi ₂ Se ₃ and Sb ₂ Te ₃ . <i>New Journal of Physics</i> , 2010 , 12, 065013	2.9	295
46	Valence change of europium in EuFe ₂ As _{1.4} P _{0.6} and compressed EuFe ₂ As ₂ and its relation to superconductivity. <i>Physical Review B</i> , 2010 , 82,	3.3	31
45	Landau quantization of topological surface states in Bi ₂ Se ₃ . <i>Physical Review Letters</i> , 2010 , 105, 076801	7.4	327
44	Quantized anomalous Hall effect in magnetic topological insulators. <i>Science</i> , 2010 , 329, 61-4	33.3	1382
43	Atomically smooth ultrathin films of topological insulator Sb ₂ Te ₃ . <i>Nano Research</i> , 2010 , 3, 874-880	10	91
42	Intrinsic topological insulator Bi ₂ Te ₃ thin films on Si and their thickness limit. <i>Advanced Materials</i> , 2010 , 22, 4002-7	24	335
41	Observation of a novel orbital selective Mott transition in Ca(1.8)Sr(0.2)RuO(4). <i>Physical Review Letters</i> , 2009 , 103, 097001	7.4	52
40	Orbital-selective Mott transition out of band degeneracy lifting. <i>Physical Review Letters</i> , 2009 , 102, 126401	7.4	175
39	Generation and detection of spin current in the three-terminal quantum dot. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 495304	1.8	6
38	Topological insulators in Bi ₂ Se ₃ , Bi ₂ Te ₃ and Sb ₂ Te ₃ with a single Dirac cone on the surface. <i>Nature Physics</i> , 2009 , 5, 438-442	16.2	4411

37	Quintuple-layer epitaxy of thin films of topological insulator Bi ₂ Se ₃ . <i>Applied Physics Letters</i> , 2009 , 95, 053114	3.4	268
36	Experimental demonstration of topological surface states protected by time-reversal symmetry. <i>Physical Review Letters</i> , 2009 , 103, 266803	7.4	586
35	Electronic structures and surface states of the topological insulator Bi _{1-x} Sb _x . <i>Physical Review B</i> , 2009 , 80,	3.3	101
34	Experimental realization of a three-dimensional topological insulator, Bi ₂ Te ₃ . <i>Science</i> , 2009 , 325, 178-81	3.3	2650
33	Local density approximation combined with Gutzwiller method for correlated electron systems: Formalism and applications. <i>Physical Review B</i> , 2009 , 79,	3.3	97
32	Fast impurity solver based on Gutzwiller variational approach. <i>Physical Review B</i> , 2009 , 79,	3.3	8
31	Quantum anomalous hall effect in Hg _{1-y} Mn _y Te quantum wells. <i>Physical Review Letters</i> , 2008 , 101, 146802	7.4	487
30	Even parity, orbital singlet, and spin triplet pairing for superconducting LaFeAsO _{1-x} F _x . <i>Physical Review Letters</i> , 2008 , 101, 057008	7.4	93
29	Observation of Fermi-surface-dependent nodeless superconducting gaps in Ba _{0.6} K _{0.4} Fe ₂ As ₂ . <i>Europhysics Letters</i> , 2008 , 83, 47001	1.6	867
28	Electron-hole asymmetry and quantum critical point in hole-doped BaFe ₂ As ₂ . <i>Europhysics Letters</i> , 2008 , 84, 67015	1.6	52
27	Competing orders and spin-density-wave instability in La(O _{1-x} F _x)FeAs. <i>Europhysics Letters</i> , 2008 , 83, 27006	1.6	598
26	LDA + Gutzwiller method for correlated electron systems. <i>Europhysics Letters</i> , 2008 , 83, 37008	1.6	37
25	Doping-dependent phase diagram of LaOMAs (M=V, U) and electron-type superconductivity near ferromagnetic instability. <i>Europhysics Letters</i> , 2008 , 82, 67002	1.6	206
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