

Guang Bian

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.

99 papers	10,670 citations	41 h-index	103 g-index
103 ext. papers	12,763 ext. citations	9.2 avg, IF	5.69 L-index

#	Paper	IF	Citations
99	Dirac Fermion Cloning, Moiré Flat Bands and Magic Lattice Constants in Epitaxial Monolayer Graphene.. <i>Advanced Materials</i> , 2022 , e2200625	24	1
98	Observation of symmetry-protected Dirac states in nonsymmorphic Bismuthene. <i>Physical Review B</i> , 2021 , 104,	3.3	1
97	Antimony oxide nanostructures in the monolayer limit: self-assembly of van der Waals-bonded molecular building blocks. <i>Nanotechnology</i> , 2021 , 32, 125701	3.4	0
96	Weyl, Dirac and high-fold chiral fermions in topological quantum matter. <i>Nature Reviews Materials</i> , 2021 , 6, 784-803	73.3	13
95	Room-temperature intrinsic ferromagnetism in epitaxial CrTe ultrathin films. <i>Nature Communications</i> , 2021 , 12, 2492	17.4	42
94	Giant Topological Hall Effect in van der Waals Heterostructures of CrTe/BiTe. <i>ACS Nano</i> , 2021 , 15, 15710-15719	16.7	15
93	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. <i>Physical Review B</i> , 2020 , 101,	3.3	15
92	Realization of Symmetry-Enforced Two-Dimensional Dirac Fermions in Nonsymmorphic Bismuthene. <i>ACS Nano</i> , 2020 , 14, 1888-1894	16.7	18
91	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. <i>Nature Communications</i> , 2020 , 11, 3356	17.4	18
90	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. <i>Science</i> , 2019 , 365, 1278-1281	33.3	187
89	Band Topology of Bismuth Quantum Films. <i>Crystals</i> , 2019 , 9, 510	2.3	11
88	Quantum oscillations in the noncentrosymmetric superconductor and topological nodal-line semimetal PbTaSe2. <i>Physical Review B</i> , 2019 , 99,	3.3	11
87	Atomic deuteration of epitaxial many-layer graphene on 4H-SiC(0001). <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019 , 37, 041804	1.3	1
86	UV-Ozone Modified Sol-Gel Processed ZnO for Improved Diketopyrrolopyrrole-Based Hybrid Photodetectors. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2455-2462	4	10
85	Realization of a Type-II Nodal-Line Semimetal in MgBi. <i>Advanced Science</i> , 2019 , 6, 1800897	13.6	44
84	Survey of electronic structure of Bi and Sb thin films by first-principles calculations and photoemission measurements. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 128, 109-117	3.9	6
83	Pt-Bi Antibonding Interaction: The Key Factor for Superconductivity in Monoclinic BaPtBi. <i>Inorganic Chemistry</i> , 2018 , 57, 1698-1701	5.1	4

82	Gapped electronic structure of epitaxial stanene on InSb(111). <i>Physical Review B</i> , 2018 , 97,	3.3	68
81	Magnetic and noncentrosymmetric Weyl fermion semimetals in the RAlGe family of compounds (R=rareearth). <i>Physical Review B</i> , 2018 , 97,	3.3	74
80	Multiple topological electronic phases in superconductor MoC. <i>Physical Review Materials</i> , 2018 , 2,	3.2	6
79	Experimental and theoretical electronic structure and symmetry effects in ultrathin NbSe ₂ films. <i>Physical Review Materials</i> , 2018 , 2,	3.2	4
78	Giant and anisotropic many-body spin-orbit tunability in a strongly correlated kagome magnet. <i>Nature</i> , 2018 , 562, 91-95	50.4	132
77	111-Type Semiconductor ReGaSi Follows 14e Rules. <i>Inorganic Chemistry</i> , 2017 , 56, 5165-5172	5.1	7
76	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. <i>Science Advances</i> , 2017 , 3, e1501692	14.3	36
75	Nexus fermions in topological symmorphic crystalline metals. <i>Scientific Reports</i> , 2017 , 7, 1688	4.9	97
74	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. <i>Nature Communications</i> , 2017 , 8, 942	17.4	57
73	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. <i>Physical Review Letters</i> , 2017 , 119, 196403	7.4	17
72	Type-II Symmetry-Protected Topological Dirac Semimetals. <i>Physical Review Letters</i> , 2017 , 119, 026404	7.4	112
71	Prediction of nontrivial band topology and superconductivity in Mg ₂ Pb. <i>Physical Review Materials</i> , 2017 , 1,	3.2	7
70	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. <i>Science Advances</i> , 2017 , 3, e1603266	14.3	124
69	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate Mo _x W _{1-x} Te ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	106
68	Superconducting properties in single crystals of the topological nodal semimetal PbTaSe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	41
67	Drumhead surface states and topological nodal-line fermions in TlTaSe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	201
66	Observation of metallic surface states in the strongly correlated Kitaev-Heisenberg candidate Na ₂ IrO ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	12
65	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. <i>Physical Review Letters</i> , 2016 , 116, 066601	7.4	43

64	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. <i>Physical Review Letters</i> , 2016 , 116, 096801	7.4	72
63	Topological Dirac surface states and superconducting pairing correlations in PbTaSe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	58
62	A strongly robust type II Weyl fermion semimetal state in TaS. <i>Science Advances</i> , 2016 , 2, e1600295	14.3	95
61	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. <i>Nature Communications</i> , 2016 , 7, 10735	17.4	455
60	An Effective Approach to Improving Cadmium Telluride (111)A Surface by Molecular-Beam-Epitaxy Growth of Tellurium Monolayer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 726-35	9.5	2
59	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. <i>ACS Nano</i> , 2016 , 10, 1378-85	16.7	93
58	Prediction of an arc-tunable Weyl Fermion metallic state in Mo(x)W(1-x)Te ₂ . <i>Nature Communications</i> , 2016 , 7, 10639	17.4	216
57	Topological nodal-line fermions in spin-orbit metal PbTaSe ₂ . <i>Nature Communications</i> , 2016 , 7, 10556	17.4	514
56	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. <i>Physical Review Letters</i> , 2016 , 116, 066802	7.4	107
55	New type of Weyl semimetal with quadratic double Weyl fermions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1180-5	11.5	199
54	Engineering Electronic Structure of a Two-Dimensional Topological Insulator Bi(111) Bilayer on Sb Nanofilms by Quantum Confinement Effect. <i>ACS Nano</i> , 2016 , 10, 3859-64	16.7	24
53	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. <i>Physical Review Letters</i> , 2016 , 117, 266804	7.4	50
52	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler CoTiX (X=Si, Ge, or Sn). <i>Scientific Reports</i> , 2016 , 6, 38839	4.9	113
51	Identification and properties of the non-cubic phases of Mg ₂ Pb. <i>AIP Advances</i> , 2016 , 6, 125108	1.5	1
50	Discovery of a new type of topological Weyl fermion semimetal state in MoWTe. <i>Nature Communications</i> , 2016 , 7, 13643	17.4	134
49	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. <i>2D Materials</i> , 2016 , 3, 021009	5.9	19
48	Topological phase transitions in stanene and stanene-like systems by scaling the spin-orbit coupling. <i>Europhysics Letters</i> , 2016 , 115, 37010	1.6	4
47	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monpnictide TaAs class. <i>Nature Communications</i> , 2015 , 6, 7373	17.4	1068

46	TOPOLOGICAL MATTER. Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , 2015 , 349, 613-7	33.3	2165
45	Unconventional transformation of spin Dirac phase across a topological quantum phase transition. <i>Nature Communications</i> , 2015 , 6, 6870	17.4	28
44	Topological insulators, topological superconductors and Weyl fermion semimetals: discoveries, perspectives and outlooks. <i>Physica Scripta</i> , 2015 , T164, 014001	2.6	94
43	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. <i>Nature Physics</i> , 2015 , 11, 748-754	16.2	674
42	Observation of Fermi arc surface states in a topological metal. <i>Science</i> , 2015 , 347, 294-8	33.3	488
41	Rashba splitting and dichroism of surface states in Bi/Ag surface alloy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015 , 201, 36-41	1.7	6
40	Spectroscopic studies of CdTe(111) bulk and surface electronic structure. <i>Physical Review B</i> , 2015 , 91,	3.3	9
39	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. <i>Physical Review B</i> , 2015 , 91,	3.3	12
38	Lifshitz transition and Van Hove singularity in a three-dimensional topological Dirac semimetal. <i>Physical Review B</i> , 2015 , 92,	3.3	28
37	Topological phase diagram and saddle point singularity in a tunable topological crystalline insulator. <i>Physical Review B</i> , 2015 , 92,	3.3	21
36	Fermi surface topology and hot spot distribution in the Kondo lattice system CeB6. <i>Physical Review B</i> , 2015 , 92,	3.3	26
35	Tunable spin helical Dirac quasiparticles on the surface of three-dimensional HgTe. <i>Physical Review B</i> , 2015 , 92,	3.3	16
34	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. <i>Physical Review B</i> , 2015 , 92,	3.3	102
33	Direct transition resonance in atomically uniform topological Sb(111) thin films. <i>Physical Review B</i> , 2015 , 92,	3.3	2
32	Gigantic surface lifetime of an intrinsic topological insulator. <i>Physical Review Letters</i> , 2015 , 115, 116801	7.4	63
31	Origin of the moiré pattern in thin Bi films deposited on HOPG. <i>Physical Review B</i> , 2015 , 91,	3.3	12
30	Dirac semimetal films as spin conductors on topological substrates. <i>Physical Review B</i> , 2015 , 91,	3.3	2
29	Experimental discovery of a topological Weyl semimetal state in TaP. <i>Science Advances</i> , 2015 , 1, e1501092	14.3	241

28	Topological phase transitions in antimony without gap parity reversal. <i>Europhysics Letters</i> , 2015 , 109, 17005	1.6	
27	Non-Kondo-like electronic structure in the correlated rare-earth hexaboride YbB(6). <i>Physical Review Letters</i> , 2015 , 114, 016403	7.4	42
26	Observation of a three-dimensional topological Dirac semimetal phase in high-mobility Cd ₃ As ₂ . <i>Nature Communications</i> , 2014 , 5, 3786	17.4	938
25	Observation of quantum-tunnelling-modulated spin texture in ultrathin topological insulator Bi ₂ Se ₃ films. <i>Nature Communications</i> , 2014 , 5, 3841	17.4	99
24	Momentum-space imaging of Cooper pairing in a half-Dirac-gas topological superconductor. <i>Nature Physics</i> , 2014 , 10, 943-950	16.2	113
23	Fermi-level electronic structure of a topological-insulator/cuprate-superconductor based heterostructure in the superconducting proximity effect regime. <i>Physical Review B</i> , 2014 , 90,	3.3	29
22	Observation of monolayer valence band spin-orbit effect and induced quantum well states in MoX ₂ . <i>Nature Communications</i> , 2014 , 5, 4673	17.4	93
21	STM driven modification of bismuth nanostructures. <i>Surface Science</i> , 2014 , 621, 140-145	1.8	5
20	First-principles and spectroscopic studies of Bi(110) films: Thickness-dependent Dirac modes and property oscillations. <i>Physical Review B</i> , 2014 , 90,	3.3	21
19	Electronic structure of the quantum spin Hall parent compound CdTe and related topological issues. <i>Physical Review B</i> , 2014 , 90,	3.3	11
18	Topological quantum well resonances in metal overlayers. <i>Physical Review B</i> , 2013 , 87,	3.3	5
17	Origin of giant Rashba spin splitting in Bi/Ag surface alloys. <i>Physical Review B</i> , 2013 , 88,	3.3	31
16	Topological spin-polarized electron layer above the surface of Ca-terminated Bi ₂ Se ₃ . <i>Physical Review B</i> , 2013 , 87,	3.3	8
15	Electronic size effects in three-dimensional nanostructures. <i>Nano Letters</i> , 2013 , 13, 43-7	11.5	36
14	Topological phase transition and Dirac fermion transfer in Bi ₂ Se ₃ films. <i>Europhysics Letters</i> , 2013 , 101, 27004	1.6	11
13	Oscillatory surface dichroism of the insulating topological insulator Bi ₂ Te ₂ Se. <i>Physical Review B</i> , 2013 , 88,	3.3	33
12	Interfacial bonding and structure of Bi ₂ Te ₃ topological insulator films on Si(111) determined by surface x-ray scattering. <i>Physical Review Letters</i> , 2013 , 110, 226103	7.4	10
11	Interfacial protection of topological surface states in ultrathin Sb films. <i>Physical Review Letters</i> , 2012 , 108, 176401	7.4	61

10	Topological limit of ultrathin quasi-free-standing Bi ₂ Te ₃ films grown on Si(111). <i>Physical Review B</i> , 2012 , 85,	3.3	23
9	Illuminating the surface spin texture of the giant-Rashba quantum-well system Bi/Ag(111) by circularly polarized photoemission. <i>Physical Review Letters</i> , 2012 , 108, 186403	7.4	36
8	Fragility of surface states and robustness of topological order in Bi ₂ Se ₃ against oxidation. <i>Physical Review Letters</i> , 2012 , 108, 096404	7.4	39
7	Passage from spin-polarized surface states to unpolarized quantum well states in topologically nontrivial Sb films. <i>Physical Review Letters</i> , 2011 , 107, 036802	7.4	57
6	Visualizing electronic chirality and Berry phases in graphene systems using photoemission with circularly polarized light. <i>Physical Review Letters</i> , 2011 , 107, 166803	7.4	136
5	Symmetry-constrained reorganization of Dirac cones in topological insulators by surface modification. <i>Physical Review B</i> , 2011 , 84,	3.3	9
4	Phonon-induced gaps in graphene and graphite observed by angle-resolved photoemission. <i>Physical Review Letters</i> , 2010 , 105, 136804	7.4	33
3	Electronic structure and surface-mediated metastability of Bi films on Si(111)-7 \times 7 studied by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2009 , 80,	3.3	34
2	Wedgebox analysis of four-lepton events from neutralino pair production at the LHC. <i>European Physical Journal C</i> , 2008 , 53, 429-446	4.2	11
1	Self-Intercalation Tunable Interlayer Exchange Coupling in a Synthetic van der Waals Antiferromagnet. <i>Advanced Functional Materials</i> , 2202977	15.6	2