Fan Zhang

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.

79	5,274	37	72
papers	citations	h-index	g-index
88	6,514 ext. citations	10.6	6.13
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
79	Gate-Tunable Transport in Quasi-One-Dimensional Bil Field Effect Transistors <i>Nano Letters</i> , 2022	11.5	2
78	Reproducibility in the fabrication and physics of moir[materials <i>Nature</i> , 2022 , 602, 41-50	50.4	11
77	Acoustic MBius Insulators from Projective Symmetry <i>Physical Review Letters</i> , 2022 , 128, 116803	7.4	5
76	Intelligent infrared sensing enabled by tunable moir quantum geometry Nature, 2022, 604, 266-272	50.4	7
75	Room-temperature superconductivity in boron- and nitrogen-doped lanthanum superhydride. <i>Physical Review B</i> , 2021 , 104,	3.3	2
74	Quantum anomalous Hall octet driven by orbital magnetism in bilayer graphene. <i>Nature</i> , 2021 , 598, 53-	5§ 0.4	9
73	Room-Temperature Topological Phase Transition in Quasi-One-Dimensional Material Bi4I4. <i>Physical Review X</i> , 2021 , 11,	9.1	4
72	Higher-Order Dirac Sonic Crystals. <i>Physical Review Letters</i> , 2021 , 127, 146601	7.4	5
71	Strong mid-infrared photoresponse in small-twist-angle bilayer graphene. <i>Nature Photonics</i> , 2020 , 14, 549-553	33.9	37
70	Unconventional valley-dependent optical selection rules and landau level mixing in bilayer graphene. <i>Nature Communications</i> , 2020 , 11, 2941	17.4	3
69	Line up for high-temperature Majoranas. <i>Science Bulletin</i> , 2020 , 65, 1234-1236	10.6	0
68	Zero-bias conductance peak in Dirac semimetal-superconductor devices. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
67	Hole-doped room-temperature superconductivity in H3S1-xZ (Z=C, Si). <i>Materials Today Physics</i> , 2020 , 15, 100330	8	20
66	Moir Band Topology in Twisted Bilayer Graphene. <i>Nano Letters</i> , 2020 , 20, 6076-6083	11.5	12
65	Observation of quadratic Weyl points and double-helicoid arcs. <i>Nature Communications</i> , 2020 , 11, 1820	17.4	10
64	Correlated insulating and superconducting states in twisted bilayer graphene below the magic angle. <i>Science Advances</i> , 2019 , 5, eaaw9770	14.3	75
63	Quantum parity Hall effect in Bernal-stacked trilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10286-10290	11.5	5

62	Acoustic Landau quantization and quantum-Hall-like edge states. <i>Nature Physics</i> , 2019 , 15, 352-356	16.2	42
61	Intrinsic valley Hall transport in atomically thin MoS. <i>Nature Communications</i> , 2019 , 10, 611	17.4	46
60	Determining Interaction Enhanced Valley Susceptibility in Spin-Valley-Locked MoS. <i>Nano Letters</i> , 2019 , 19, 1736-1742	11.5	21
59	Composite Dirac semimetals. <i>Physical Review B</i> , 2019 , 100,	3.3	6
58	Circular dichroism and radial Hall effects in topological materials. <i>Physical Review B</i> , 2018 , 97,	3.3	14
57	Dand 4Dosephson Effects Mediated by a Dirac Semimetal. <i>Physical Review Letters</i> , 2018 , 120, 177704	7.4	22
56	Valley Topological Phases in Bilayer Sonic Crystals. <i>Physical Review Letters</i> , 2018 , 120, 116802	7.4	111
55	Topological negative refraction of surface acoustic waves in a Weyl phononic crystal. <i>Nature</i> , 2018 , 560, 61-64	50.4	198
54	Topological Triply Degenerate Points Induced by Spin-Tensor-Momentum Couplings. <i>Physical Review Letters</i> , 2018 , 120, 240401	7.4	27
53	Valley-selective topologically ordered states in irradiated bilayer graphene. 2D Materials, 2018, 5, 0110	05 .9	7
53 52	Valley-selective topologically ordered states in irradiated bilayer graphene. <i>2D Materials</i> , 2018 , 5, 0110 Majorana Doublets, Flat Bands, and Dirac Nodes in s-Wave Superfluids. <i>Physical Review Letters</i> , 2018 , 121, 185302	0 <u>5</u> .9	7
	Majorana Doublets, Flat Bands, and Dirac Nodes in s-Wave Superfluids. <i>Physical Review Letters</i> ,		
52	Majorana Doublets, Flat Bands, and Dirac Nodes in s-Wave Superfluids. <i>Physical Review Letters</i> , 2018 , 121, 185302	7.4	6
52 51	Majorana Doublets, Flat Bands, and Dirac Nodes in s-Wave Superfluids. <i>Physical Review Letters</i> , 2018 , 121, 185302 High-Temperature Majorana Corner States. <i>Physical Review Letters</i> , 2018 , 121, 186801	7·4 7·4	6
52 51 50	Majorana Doublets, Flat Bands, and Dirac Nodes in s-Wave Superfluids. <i>Physical Review Letters</i> , 2018 , 121, 185302 High-Temperature Majorana Corner States. <i>Physical Review Letters</i> , 2018 , 121, 186801 A missing step is a key step. <i>Nature Materials</i> , 2018 , 17, 851-852	7·4 7·4	6 103 6
52 51 50 49	Majorana Doublets, Flat Bands, and Dirac Nodes in s-Wave Superfluids. <i>Physical Review Letters</i> , 2018 , 121, 185302 High-Temperature Majorana Corner States. <i>Physical Review Letters</i> , 2018 , 121, 186801 A missing step is a key step. <i>Nature Materials</i> , 2018 , 17, 851-852 Topological, Valleytronic, and Optical Properties of Monolayer PbS. <i>Advanced Materials</i> , 2017 , 29, 1604 Odd-Integer Quantum Hall States and Giant Spin Susceptibility in p-Type Few-Layer WSe_{2}.	7·4 7·4 27 788 7·4	6 103 6 20
52 51 50 49 48	Majorana Doublets, Flat Bands, and Dirac Nodes in s-Wave Superfluids. <i>Physical Review Letters</i> , 2018 , 121, 185302 High-Temperature Majorana Corner States. <i>Physical Review Letters</i> , 2018 , 121, 186801 A missing step is a key step. <i>Nature Materials</i> , 2018 , 17, 851-852 Topological, Valleytronic, and Optical Properties of Monolayer PbS. <i>Advanced Materials</i> , 2017 , 29, 1604 Odd-Integer Quantum Hall States and Giant Spin Susceptibility in p-Type Few-Layer WSe_{2}. <i>Physical Review Letters</i> , 2017 , 118, 067702	7·4 7·4 27 788 7·4	6 103 6 20 28

44	Hybrid Weyl semimetal. <i>Physical Review B</i> , 2016 , 94,	3.3	36
43	First-principles demonstration of superconductivity at 280 K in hydrogen sulfide with low phosphorus substitution. <i>Physical Review B</i> , 2016 , 93,	3.3	65
42	SU(3) Quantum Hall Ferromagnetism in SnTe. <i>Physical Review Letters</i> , 2016 , 116, 026803	7.4	17
41	Energy Gaps and Layer Polarization of Integer and Fractional Quantum Hall States in Bilayer Graphene. <i>Physical Review Letters</i> , 2016 , 116, 056601	7.4	16
40	Weak Topological Insulators and Composite Weyl Semimetals: Bi4X4 (X=Br, I). <i>Physical Review Letters</i> , 2016 , 116, 066801	7.4	56
39	Even-odd layer-dependent magnetotransport of high-mobility Q-valley electrons in transition metal disulfides. <i>Nature Communications</i> , 2016 , 7, 12955	17.4	64
38	Universal low-temperature Ohmic contacts for quantum transport in transition metal dichalcogenides. <i>2D Materials</i> , 2016 , 3, 021007	5.9	78
37	Nanostructured Carbon Allotropes with Weyl-like Loops and Points. <i>Nano Letters</i> , 2015 , 15, 6974-8	11.5	248
36	Buckled honeycomb lattice materials and unconventional magnetic responses. <i>RSC Advances</i> , 2015 , 5, 83350-83360	3.7	4
35	Chirality-Dependent Hall Effect in Weyl Semimetals. <i>Physical Review Letters</i> , 2015 , 115, 156603	7.4	58
34	Structured Weyl Points in Spin-Orbit Coupled Fermionic Superfluids. <i>Physical Review Letters</i> , 2015 , 115, 265304	7.4	211
33	Perfect valley filter in a topological domain wall. <i>Physical Review B</i> , 2015 , 92,	3.3	42
32	Critical behavior of four-terminal conductance of bilayer graphene domain walls. <i>Physical Review B</i> , 2015 , 92,	3.3	4
31	The time reversal invariant fractional Josephson effect. <i>Physica Scripta</i> , 2015 , T164, 014011	2.6	12
30	Spontaneous chiral symmetry breaking in bilayer graphene. Synthetic Metals, 2015, 210, 9-18	3.6	8
29	Superlattice valley engineering for designer topological insulators. <i>Scientific Reports</i> , 2014 , 4, 6397	4.9	24
28	Time-reversal-invariant Z4 fractional Josephson effect. <i>Physical Review Letters</i> , 2014 , 113, 036401	7.4	97
27	Anomalous topological pumps and fractional Josephson effects. <i>Physical Review B</i> , 2014 , 90,	3.3	47

26	Dirac and Weyl superconductors in three dimensions. <i>Physical Review Letters</i> , 2014 , 113, 046401	7.4	197
25	Competing ordered states with filling factor two in bilayer graphene. <i>Nature Communications</i> , 2014 , 5, 4550	17.4	18
24	Signatures of Majorana fermions in topological insulator Josephson junction devices. <i>Physical Review B</i> , 2014 , 89,	3.3	11
23	Spontaneous layer-pseudospin domain walls in bilayer graphene. <i>Physical Review Letters</i> , 2014 , 113, 116	5 9 0 ₄ 3	24
22	(111) surface states of SnTe. <i>Physical Review B</i> , 2014 , 90,	3.3	17
21	Topological mirror superconductivity. <i>Physical Review Letters</i> , 2013 , 111, 056403	7.4	142
20	Time-reversal-invariant topological superconductivity and Majorana Kramers pairs. <i>Physical Review Letters</i> , 2013 , 111, 056402	7.4	167
19	Magnetic control of the valley degree of freedom of massive Dirac fermions with application to transition metal dichalcogenides. <i>Physical Review B</i> , 2013 , 88,	3.3	87
18	Transport studies of dual-gated ABC and ABA trilayer graphene: band gap opening and band structure tuning in very large perpendicular electric fields. <i>Nano Letters</i> , 2013 , 13, 369-73	11.5	92
17	Surface state magnetization and chiral edge states on topological insulators. <i>Physical Review Letters</i> , 2013 , 110, 046404	7.4	125
16	Broken symmetry quantum Hall states in dual-gated ABA trilayer graphene. <i>Nano Letters</i> , 2013 , 13, 162	7± 3 .15	31
15	Unconventional quantum Hall effect and tunable spin hall effect in Dirac materials: application to an isolated MoS2 trilayer. <i>Physical Review Letters</i> , 2013 , 110, 066803	7.4	141
14	Valley Chern numbers and boundary modes in gapped bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10546-51	11.5	222
13	Surface states of topological insulators. <i>Physical Review B</i> , 2012 , 86,	3.3	113
12	Transport spectroscopy of symmetry-broken insulating states in bilayer graphene. <i>Nature Nanotechnology</i> , 2012 , 7, 156-60	28.7	237
11	Distinguishing spontaneous quantum Hall states in bilayer graphene. <i>Physical Review Letters</i> , 2012 , 108, 186804	7.4	48
10	Pseudospin order in monolayer, bilayer and double-layer graphene. <i>Physica Scripta</i> , 2012 , T146, 014012	2.6	40
9	Evidence for a spontaneous gapped state in ultraclean bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 10802-5	11.5	92

8	Competing ordered states in bilayer graphene. Physical Review B, 2012, 86,	3.3	33
7	Hund' Trules for the N=0 Landau levels of trilayer graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	37
6	Spontaneous Quantum Hall States and Novel Luttinger Liquids in Chiral Graphene. <i>Journal of Physics: Conference Series</i> , 2011 , 334, 012002	0.3	8
5	Lattice theory of pseudospin ferromagnetism in bilayer graphene: Competing interaction-induced quantum Hall states. <i>Physical Review B</i> , 2011 , 83,	3.3	95
4	Spontaneous quantum Hall states in chirally stacked few-layer graphene systems. <i>Physical Review Letters</i> , 2011 , 106, 156801	7.4	326
3	Valley-Hall kink and edge states in multilayer graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	103
2	Band structure of ABC-stacked graphene trilayers. <i>Physical Review B</i> , 2010 , 82,	3.3	213
1	Spontaneous inversion symmetry breaking in graphene bilayers. <i>Physical Review B</i> , 2010 , 81,	3.3	158