Fan Zhang

List of Publications by Citations

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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 |
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| 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 | Observation of topological valley transport of sound in sonic crystals. <i>Nature Physics</i> , 2017 , 13, 369-374 | 16.2 | 444 |
| 78 | Spontaneous quantum Hall states in chirally stacked few-layer graphene systems. <i>Physical Review Letters</i> , 2011 , 106, 156801 | 7.4 | 326 |
| 77 | Nanostructured Carbon Allotropes with Weyl-like Loops and Points. <i>Nano Letters</i> , 2015 , 15, 6974-8 | 11.5 | 248 |
| 76 | Transport spectroscopy of symmetry-broken insulating states in bilayer graphene. <i>Nature Nanotechnology</i> , 2012 , 7, 156-60 | 28.7 | 237 |
| 75 | 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 |
| 74 | Band structure of ABC-stacked graphene trilayers. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 213 |
| 73 | Structured Weyl Points in Spin-Orbit Coupled Fermionic Superfluids. <i>Physical Review Letters</i> , 2015 , 115, 265304 | 7.4 | 211 |
| 72 | Topological negative refraction of surface acoustic waves in a Weyl phononic crystal. <i>Nature</i> , 2018 , 560, 61-64 | 50.4 | 198 |
| 71 | Dirac and Weyl superconductors in three dimensions. <i>Physical Review Letters</i> , 2014 , 113, 046401 | 7.4 | 197 |
| 70 | Time-reversal-invariant topological superconductivity and Majorana Kramers pairs. <i>Physical Review Letters</i> , 2013 , 111, 056402 | 7.4 | 167 |
| 69 | Spontaneous inversion symmetry breaking in graphene bilayers. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 158 |
| 68 | Topological mirror superconductivity. <i>Physical Review Letters</i> , 2013 , 111, 056403 | 7.4 | 142 |
| 67 | 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 |
| 66 | Surface state magnetization and chiral edge states on topological insulators. <i>Physical Review Letters</i> , 2013 , 110, 046404 | 7.4 | 125 |
| 65 | Surface states of topological insulators. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 113 |
| 64 | Valley Topological Phases in Bilayer Sonic Crystals. <i>Physical Review Letters</i> , 2018 , 120, 116802 | 7·4 | 111 |
| 63 | Valley-Hall kink and edge states in multilayer graphene. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 103 |

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| 62 | High-Temperature Majorana Corner States. <i>Physical Review Letters</i> , 2018 , 121, 186801 | 7.4 | 103 |
|----|---|------|-----|
| 61 | Time-reversal-invariant Z4 fractional Josephson effect. <i>Physical Review Letters</i> , 2014 , 113, 036401 | 7.4 | 97 |
| 60 | Lattice theory of pseudospin ferromagnetism in bilayer graphene: Competing interaction-induced quantum Hall states. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 95 |
| 59 | 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 |
| 58 | 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 |
| 57 | 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 |
| 56 | Universal low-temperature Ohmic contacts for quantum transport in transition metal dichalcogenides. <i>2D Materials</i> , 2016 , 3, 021007 | 5.9 | 78 |
| 55 | Correlated insulating and superconducting states in twisted bilayer graphene below the magic angle. <i>Science Advances</i> , 2019 , 5, eaaw9770 | 14.3 | 75 |
| 54 | Observation of acoustic valley vortex states and valley-chirality locked beam splitting. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 72 |
| 53 | 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 |
| 52 | 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 |
| 51 | Chirality-Dependent Hall Effect in Weyl Semimetals. <i>Physical Review Letters</i> , 2015 , 115, 156603 | 7.4 | 58 |
| 50 | Weak Topological Insulators and Composite Weyl Semimetals: Bi4X4 (X=Br, I). <i>Physical Review Letters</i> , 2016 , 116, 066801 | 7.4 | 56 |
| 49 | Distinguishing spontaneous quantum Hall states in bilayer graphene. <i>Physical Review Letters</i> , 2012 , 108, 186804 | 7.4 | 48 |
| 48 | Anomalous topological pumps and fractional Josephson effects. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 47 |
| 47 | Intrinsic valley Hall transport in atomically thin MoS. <i>Nature Communications</i> , 2019 , 10, 611 | 17.4 | 46 |
| 46 | Acoustic Landau quantization and quantum-Hall-like edge states. <i>Nature Physics</i> , 2019 , 15, 352-356 | 16.2 | 42 |
| 45 | Perfect valley filter in a topological domain wall. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 42 |

| 44 | Pseudospin order in monolayer, bilayer and double-layer graphene. <i>Physica Scripta</i> , 2012 , T146, 014012 | 2.6 | 40 |
|----|---|---------------|----|
| 43 | Strong mid-infrared photoresponse in small-twist-angle bilayer graphene. <i>Nature Photonics</i> , 2020 , 14, 549-553 | 33.9 | 37 |
| 42 | Hund's rules for the N=0 Landau levels of trilayer graphene. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 37 |
| 41 | Hybrid Weyl semimetal. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 36 |
| 40 | Competing ordered states in bilayer graphene. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 33 |
| 39 | Broken symmetry quantum Hall states in dual-gated ABA trilayer graphene. <i>Nano Letters</i> , 2013 , 13, 162 | 7£3.5 | 31 |
| 38 | 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 | 28 |
| 37 | Topological Triply Degenerate Points Induced by Spin-Tensor-Momentum Couplings. <i>Physical Review Letters</i> , 2018 , 120, 240401 | 7.4 | 27 |
| 36 | Superlattice valley engineering for designer topological insulators. Scientific Reports, 2014, 4, 6397 | 4.9 | 24 |
| 35 | Spontaneous layer-pseudospin domain walls in bilayer graphene. <i>Physical Review Letters</i> , 2014 , 113, 110 | 5 80 β | 24 |
| 34 | Band 4Dosephson Effects Mediated by a Dirac Semimetal. <i>Physical Review Letters</i> , 2018 , 120, 177704 | 7.4 | 22 |
| 33 | Determining Interaction Enhanced Valley Susceptibility in Spin-Valley-Locked MoS. <i>Nano Letters</i> , 2019 , 19, 1736-1742 | 11.5 | 21 |
| 32 | Topological, Valleytronic, and Optical Properties of Monolayer PbS. Advanced Materials, 2017, 29, 1604 | 7 8 8 | 20 |
| 31 | Hole-doped room-temperature superconductivity in H3S1-xZ (Z=C, Si). <i>Materials Today Physics</i> , 2020 , 15, 100330 | 8 | 20 |
| 30 | Competing ordered states with filling factor two in bilayer graphene. <i>Nature Communications</i> , 2014 , 5, 4550 | 17.4 | 18 |
| 29 | SU(3) Quantum Hall Ferromagnetism in SnTe. <i>Physical Review Letters</i> , 2016 , 116, 026803 | 7.4 | 17 |
| 28 | (111) surface states of SnTe. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 17 |
| 27 | Topological Majorana Two-Channel Kondo Effect. <i>Physical Review Letters</i> , 2017 , 119, 187701 | 7.4 | 16 |

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| 26 | 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 |
|----|---|----------------|----|
| 25 | Circular dichroism and radial Hall effects in topological materials. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 14 |
| 24 | The time reversal invariant fractional Josephson effect. <i>Physica Scripta</i> , 2015 , T164, 014011 | 2.6 | 12 |
| 23 | Moir[Band Topology in Twisted Bilayer Graphene. <i>Nano Letters</i> , 2020 , 20, 6076-6083 | 11.5 | 12 |
| 22 | Signatures of Majorana fermions in topological insulator Josephson junction devices. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 11 |
| 21 | Reproducibility in the fabrication and physics of moir[materials <i>Nature</i> , 2022 , 602, 41-50 | 50.4 | 11 |
| 20 | Observation of quadratic Weyl points and double-helicoid arcs. <i>Nature Communications</i> , 2020 , 11, 1820 | 17.4 | 10 |
| 19 | Quantum anomalous Hall octet driven by orbital magnetism in bilayer graphene. <i>Nature</i> , 2021 , 598, 53- | 5 § 0.4 | 9 |
| 18 | Spontaneous chiral symmetry breaking in bilayer graphene. Synthetic Metals, 2015, 210, 9-18 | 3.6 | 8 |
| 17 | Spontaneous Quantum Hall States and Novel Luttinger Liquids in Chiral Graphene. <i>Journal of Physics: Conference Series</i> , 2011 , 334, 012002 | 0.3 | 8 |
| 16 | Valley-selective topologically ordered states in irradiated bilayer graphene. 2D Materials, 2018, 5, 0110 | 05 .9 | 7 |
| 15 | Intelligent infrared sensing enabled by tunable moir[quantum geometry Nature, 2022, 604, 266-272 | 50.4 | 7 |
| 14 | Composite Dirac semimetals. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 6 |
| 13 | Majorana Doublets, Flat Bands, and Dirac Nodes in s-Wave Superfluids. <i>Physical Review Letters</i> , 2018 , 121, 185302 | 7.4 | 6 |
| 12 | A missing step is a key step. <i>Nature Materials</i> , 2018 , 17, 851-852 | 27 | 6 |
| 11 | 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 |
| 10 | Zero-bias conductance peak in Dirac semimetal-superconductor devices. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 5 |
| 9 | Higher-Order Dirac Sonic Crystals. <i>Physical Review Letters</i> , 2021 , 127, 146601 | 7.4 | 5 |

| 8 | Acoustic MBius Insulators from Projective Symmetry Physical Review Letters, 2022, 128, 116803 | 7.4 | 5 |
|---|--|------|---|
| 7 | Buckled honeycomb lattice materials and unconventional magnetic responses. <i>RSC Advances</i> , 2015 , 5, 83350-83360 | 3.7 | 4 |
| 6 | Critical behavior of four-terminal conductance of bilayer graphene domain walls. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 4 |
| 5 | Room-Temperature Topological Phase Transition in Quasi-One-Dimensional Material Bi4I4. <i>Physical Review X</i> , 2021 , 11, | 9.1 | 4 |
| 4 | Unconventional valley-dependent optical selection rules and landau level mixing in bilayer graphene. <i>Nature Communications</i> , 2020 , 11, 2941 | 17.4 | 3 |
| 3 | Gate-Tunable Transport in Quasi-One-Dimensional Bil Field Effect Transistors Nano Letters, 2022 | 44 F | 2 |
| | | 11.5 | |
| 2 | Room-temperature superconductivity in boron- and nitrogen-doped lanthanum superhydride. Physical Review B, 2021 , 104, | 3.3 | 2 |