

# Jian Li

## List of Publications by Citations

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43  
papers

3,431  
citations

26  
h-index

45  
g-index

45  
ext. papers

4,212  
ext. citations

9.6  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
43	Topological matter. Observation of Majorana fermions in ferromagnetic atomic chains on a superconductor. <i>Science</i> , <b>2014</b> , 346, 602-7	33.3	1222
42	Topological Anderson insulator. <i>Physical Review Letters</i> , <b>2009</b> , 102, 136806	7.4	307
41	Gate-tuned normal and superconducting transport at the surface of a topological insulator. <i>Nature Communications</i> , <b>2011</b> , 2, 575	17.4	230
40	Quasiparticle interference of the Fermi arcs and surface-bulk connectivity of a Weyl semimetal. <i>Science</i> , <b>2016</b> , 351, 1184-7	33.3	130
39	High-resolution studies of the Majorana atomic chain platform. <i>Nature Physics</i> , <b>2017</b> , 13, 286-291	16.2	123
38	Distinguishing a Majorana zero mode using spin-resolved measurements. <i>Science</i> , <b>2017</b> , 358, 772-776	33.3	121
37	Higher-Order Topology, Monopole Nodal Lines, and the Origin of Large Fermi Arcs in Transition Metal Dichalcogenides $XTe_2$ ( $X=Mo,W$ ). <i>Physical Review Letters</i> , <b>2019</b> , 123, 186401	7.4	116
36	Topological superconductivity induced by ferromagnetic metal chains. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	94
35	Topological origin of subgap conductance in insulating bilayer graphene. <i>Nature Physics</i> , <b>2011</b> , 7, 38-42	16.2	94
34	Topological Weyl semi-metal from a lattice model. <i>Europhysics Letters</i> , <b>2012</b> , 97, 67004	1.6	84
33	Observation of a Majorana zero mode in a topologically protected edge channel. <i>Science</i> , <b>2019</b> , 364, 1255-1259	33.3	64
32	Charge Hall effect driven by spin-dependent chemical potential gradients and Onsager relations in mesoscopic systems. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	64
31	Two-dimensional chiral topological superconductivity in Shiba lattices. <i>Nature Communications</i> , <b>2016</b> , 7, 12297	17.4	64
30	Spin-resolved Hall effect driven by spin-orbit coupling. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	52
29	Marginality of bulk-edge correspondence for single-valley Hamiltonians. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	51
28	Universal signatures of Fermi arcs in quasiparticle interference on the surface of Weyl semimetals. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	48
27	Manipulating Majorana zero modes on atomic rings with an external magnetic field. <i>Nature Communications</i> , <b>2016</b> , 7, 10395	17.4	45

26	Large discrete jumps observed in the transition between Chern states in a ferromagnetic topological insulator. <i>Science Advances</i> , <b>2016</b> , 2, e1600167	14.3	43
25	Observation of electric current induced by optically injected spin current. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 242115	3.4	40
24	Disorder effects in the quantum Hall effect of graphene p-n junctions. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	39
23	Magnetic-field-induced localization in 2D topological insulators. <i>Physical Review Letters</i> , <b>2012</b> , 109, 246803	7.4	37
22	Observation of the Quantum Anomalous Hall Insulator to Anderson Insulator Quantum Phase Transition and its Scaling Behavior. <i>Physical Review Letters</i> , <b>2016</b> , 117, 126802	7.4	30
21	Scattering theory of chiral Majorana fermion interferometry. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	30
20	Coherent oscillations and giant edge magnetoresistance in singly connected topological insulators. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	30
19	Temperature-driven topological transition in 1TfMoTe <sub>2</sub> . <i>Npj Quantum Materials</i> , <b>2018</b> , 3,	5	29
18	Band Structure Perfection and Superconductivity in Type-II Dirac Semimetal Ir Pt Te. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801556	2.4	28
17	Spin-current-induced charge accumulation and electric current in semiconductor nanostructures with Rashba spin-orbit coupling. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	25
16	Transverse electric current induced by optically injected spin current in a cross-shaped InGaAs/AlAs system. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 162105	3.4	24
15	Detection of Majorana Kramers Pairs Using a Quantum Point Contact. <i>Physical Review Letters</i> , <b>2016</b> , 117, 046804	7.4	24
14	Majorana spin in magnetic atomic chain systems. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	21
13	Z <sub>2</sub> peak of noise correlations in a quantum spin Hall insulator. <i>Physical Review Letters</i> , <b>2013</b> , 110, 246601	7.4	21
12	Imaging electronic states on topological semimetals using scanning tunneling microscopy. <i>New Journal of Physics</i> , <b>2016</b> , 18, 105003	2.9	17
11	Universal transport properties of three-dimensional topological insulator nanowires. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	17
10	Topological Phase Transitions in Disordered Electric Quadrupole Insulators. <i>Physical Review Letters</i> , <b>2020</b> , 125, 166801	7.4	16
9	Marginal topological properties of graphene: a comparison with topological insulators. <i>Physica Scripta</i> , <b>2012</b> , T146, 014021	2.6	14

8	Fractional Josephson effect in a quadruple quantum dot. <i>New Journal of Physics</i> , <b>2013</b> , 15, 085018	2.9	10
7	Majorana-Josephson interferometer. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	8
6	A gap-protected zero-Hall effect state in the quantum limit of the non-symmorphic metal KHgSb. <i>Nature Materials</i> , <b>2019</b> , 18, 443-447	2.7	8
5	Quasiparticle interference of Fermi arc states in the type-II Weyl semimetal candidate WTe <sub>2</sub> . <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	4
4	Higher-Order Fabry-Pérot Interferometer from Topological Hinge States. <i>Physical Review Letters</i> , <b>2021</b> , 127, 026803	7.4	4
3	Exotic Vortex States with Discrete Rotational Symmetry in Atomic Fermi Gases with Spin-Orbital-Angular-Momentum Coupling. <i>Physical Review Letters</i> , <b>2021</b> , 126, 193401	7.4	1
2	Zero-Bias Conductance Peaks Effectively Tuned by Gating-Controlled Rashba Spin-Orbit Coupling. <i>Physical Review Letters</i> , <b>2021</b> , 126, 057701	7.4	1
1	Theory of topological superconductivity based on Yu-Shiba-Rusinov states. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2020</b> , 69, 117401	0.6	0