Law, Kam Tuen

List of Publications by Year
in descending order

70	6,028	81889	88628
papers	citations	39 h-index	70 g-index

71	71	71	5681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ising pairing in superconducting NbSe2 atomicÂlayers. Nature Physics, 2016, 12, 139-143.	16.7	806
2	Majorana Fermion Induced Resonant Andreev Reflection. Physical Review Letters, 2009, 103, 237001.	7.8	760
3	Evidence for two-dimensional Ising superconductivity in gated MoS ₂. Science, 2015, 350, 1353-1357.	12.6	636
4	Zero-Bias Peaks in the Tunneling Conductance of Spin-Orbit-Coupled Superconducting Wires with and without Majorana End-States. Physical Review Letters, 2012, 109, 267002.	7.8	387
5	1T-TaS ₂ as a quantum spin liquid. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6996-7000.	7.1	215
6	KekulÃ© valence bond order in an extended Hubbard model on the honeycomb lattice with possible applications to twisted bilayer graphene. Physical Review B, 2018, 98, .	3.2	134
7	Majorana Kramers doublets in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>d</mml:mi><mml:mrow><mml:msup><mml:mi>x</mml:mi><mml:mn>2</mml:mn></mml:msup> superconductors with Rashba spin-orbit coupling. Physical Review B, 2012, 86, .	3.2	133
8	Possible Topological Superconducting Phases of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review Letters, 2014, 113, 097001.	7.8	133
9	Selective Equal-Spin Andreev Reflections Induced by Majorana Fermions. Physical Review Letters, 2014, 112, 037001.	7.8	131
10	Ising superconductivity and Majorana fermions in transition-metal dichalcogenides. Physical Review B, 2016, 93, .	3.2	123
11	Two-dimensional superconductivity at the interface of a Bi2Te3/FeTe heterostructure. Nature Communications, 2014, 5, 4247.	12.8	114
12	Signature of a pair of Majorana zero modes in superconducting gold surface states. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8775-8782.	7.1	112
13	An unusual continuous paramagnetic-limited superconducting phase transition in 2D NbSe 2. Nature Materials, 2018, 17, 504-508.	27.5	98
14	Electronic Mach-Zehnder interferometer as a tool to probe fractional statistics. Physical Review B, 2006, 74, .	3.2	88
15	Disorder-induced multifractal superconductivity in monolayer niobium dichalcogenides. Nature Physics, 2019, 15, 904-910.	16.7	86
16	Magnetic field driven nodal topological superconductivity in monolayer transition metal dichalcogenides. Communications Physics, 2018, 1, .	5.3	85
17	Detecting Topological Phases in Cold Atoms. Physical Review Letters, 2013, 111, 120402.	7.8	83
18	Evidence of higher-order topology in multilayer WTe2 from Josephson coupling through anisotropic hinge states. Nature Materials, 2020, 19, 974-979.	27.5	80

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19	Transport evidence of asymmetric spinâ€“orbit coupling in few-layer superconducting 1Td-MoTe2. Nature Communications, 2019, 10, 2044.	12.8	79
20	Correlated spin currents generated by resonant-crossed Andreev reflections in topological superconductors. Nature Communications, 2014, 5, 3232.	12.8	77
21	Intrinsic valley Hall transport in atomically thin MoS2. Nature Communications, 2019, 10, 611.	12.8	77
22	Non-Abelian Majorana Doublets in Time-Reversal-Invariant Topological Superconductors. Physical Review X, 2014, 4, .	8.9	75
23	Giant orbital magnetoelectric effect and current-induced magnetization switching in twisted bilayer graphene. Nature Communications, 2020, 11, 1650.	12.8	74
24	Majorana flat bands and unidirectional Majorana edge states in gapless topological superconductors. Physical Review B, 2013, 88, .	3.2	71
25	Robustness of Majorana fermion induced fractional Josephson effect in multichannel superconducting wires. Physical Review B, 2011, 84, .	3.2	70
26	Spinon Fermi Surface in a Cluster Mott Insulator Model on a Triangular Lattice and Possible Application to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub><mml:mrow><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow><mml:m Physical Review Letters, 2018, 121, 046401.	8.6	70
27	Nematic topological superconducting phase in Nb-doped Bi2Se3. Npj Quantum Materials, 2017, 2, .	5.2	67
28	Shot noise in an anyonic Mach-Zehnder interferometer. Physical Review B, 2007, 76, .	3.2	63
29	Majorana fermion induced nonlocal current correlations in spin-orbit coupled superconducting wires. Physical Review B, 2013, 88, .	3.2	63
30	Spin-orbit coupling induced valley Hall effects in transition-metal dichalcogenides. Communications Physics, 2019, 2, .	5.3	56
31	Asymmetric Josephson effect in inversion symmetry breaking topological materials. Physical Review B, 2018, 98, .	3.2	54
32	Photovoltaic anomalous Hall effect in line-node semimetals. Physical Review B, 2016, 94, .	3.2	51
33	Proximity-induced surface superconductivity in Dirac semimetal Cd3As2. Nature Communications, 2019, 10, 2217.	12.8	50
34	Highly Tunable Nonlinear Hall Effects Induced by Spin-Orbit Couplings in Strained Polar Transition-Metal Dichalcogenides. Physical Review Applied, 2020, 13, .	3.8	49
35	Inducing Strong Superconductivity in WTe₂ by a Proximity Effect. ACS Nano, 2018, 12, 7185-7196.	14.6	48
36	Lattice reconstruction induced multiple ultra-flat bands in twisted bilayer WSe2. Nature Communications, 2021, 12, 5601.	12.8	48

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37	Valley-Polarized Quantum Anomalous Hall State in MoirÃ© <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoTe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Heterobilayers. Physical Review Letters, 2022, 128, 026402.	7.8	48
38	Realization and detection of Weyl semimetals and the chiral anomaly in cold atomic systems. Physical Review A, 2016, 94, .	2.5	45
39	Quasi-one-dimensional quantum anomalous Hall systems as new platforms for scalable topological quantum computation. Physical Review B, 2018, 97, .	3.2	44
40	Topological Transitions Induced by Antiferromagnetism in a Thin-Film Topological Insulator. Physical Review Letters, 2018, 121, 096802.	7.8	42
41	Quantum dot in a two-dimensional topological insulator: The two-channel Kondo fixed point. Physical Review B, 2010, 81, .	3.2	37
42	Magnetoelectric effects in gyrotropic superconductors. Physical Review Research, 2020, 2, .	3.6	33
43	Superconductivity-induced ferromagnetism and Weyl superconductivity in Nb-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Se</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>.	3.2	31
44	Spin-Orbit-Parity-Coupled Superconductivity in Topological Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WTe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2020, 125, 107001.	7.8	31
45	Effects of domain walls in quantum anomalous Hall insulator/superconductor heterostructures. Physical Review B, 2017, 96, .	3.2	29
46	Magnetoconductivity in Weyl semimetals: Effect of chemical potential and temperature. Physical Review B, 2017, 96, .	3.2	24
47	Surface Reactivity Enhancement on a Pd/Bi2Te3 Heterostructure through Robust Topological Surface States. Scientific Reports, 2013, 3, 2497.	3.3	22
48	Spectroscopic fingerprint of chiral Majorana modes at the edge of a quantum anomalous Hall insulator/superconductor heterostructure. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 238-242.	7.1	22
49	Probing non-Abelian statistics in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î½</mml:mi><mml:mo>=</mml:mo><mml:mn>12</mml:mn><mml:mo>/</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math> Hall state. Physical Review B, 2008, 77, .	3.2	21
50	Demonstrating lattice symmetry protection in topological crystalline superconductors. Physical Review B, 2014, 90, .	3.2	20
51	Kramers nodal line metals. Nature Communications, 2021, 12, 3064.	12.8	20
52	Negative Quantum Capacitance Induced by Midgap States in Single-layer Graphene. Scientific Reports, 2013, 3, 2041.	3.3	18
53	Origin of bias-independent conductance plateaus and zero-bias conductance peaks in Bi2Se3/NbSe2 hybrid structures. Physical Review B, 2017, 96, .	3.2	17
54	Weyl points and topological nodal superfluids in a face-centered-cubic optical lattice. Physical Review B, 2017, 96, .	3.2	16

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55	Quantum Phase Transition Between a Luttinger Liquid and a Gas of Cold Molecules. Physical Review Letters, 2008, 101, 096401.	7.8	14
56	Emergent Josephson current of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn> chiral topological superconductor in quantum anomalous Hall insulator/superconductor heterostructures. Physical Review B, 2018, 98, .	3.2	14
57	Valley Edelstein effect in monolayer transition-metal dichalcogenides. Physical Review B, 2018, 98, .	3.2	14
58	Pair Density Wave in the Doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>t</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>J</mml:mi></mml:mrow></mml:math> Model with Ring Exchange on a Triangular Lattice. Physical Review Letters, 2019, 122, 167001.	7.8	14
59	Kramers Weyl semimetals as quantum solenoids and their applications in spin-orbit torque devices. Communications Physics, 2021, 4, .	5.3	14
60	Chiral topological orders in an optical Raman lattice. New Journal of Physics, 2016, 18, 035004.	2.9	13
61	Probing Majorana flat bands in nodal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0056.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>d</mml:mi></mml:mrow><mml:mrow><mml:msup><mml:mrow><mml:mi>x<</mml:mi> mathvariant="normal">-</mml:mi><mml:mi>wave</mml:mi></mml:math> superconduc. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 55, 30-36.	2.7	12
62	Pseudogap and proximity effect in the Bi2Te3/Fe1+yTe interfacial superconductor. Scientific Reports, 2016, 6, 32508.	3.3	11
63	Platform for engineering topological superconductors: Superlattices on Rashba superconductors. Physical Review B, 2016, 94, .	3.2	9
64	Strongly enlarged topological regime and enhanced superconducting gap in nanowires coupled to Ising superconductors. Physical Review Research, 2020, 2, .	3.6	9
65	Evidence of the oscillatory magnetic anisotropy in Ni/Co/Ni/Cu(100). Physical Review B, 2003, 67, .	3.2	7
66	Generating giant spin currents using nodal topological superconductors. Physical Review B, 2017, 95, .	3.2	7
67	Topological superconductivity in EuS/Au/superconductor heterostructures. Physical Review Research, 2021, 3, .	3.6	7
68	Thermal coherence properties of topological insulator slabs in time-reversal symmetry breaking fields. Physical Review B, 2013, 87, .	3.2	6
69	Superconducting orbital magnetoelectric effect and its evolution across the superconductor-normal metal phase transition. Physical Review Research, 2021, 3, .	3.6	6
70	From nodal-ring topological superfluids to spiral Majorana modes in cold atomic systems. Physical Review A, 2018, 97, .	2.5	5