

Law, Kam Tuen

List of Publications by Citations

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69
papers

4,014
citations

31
h-index

63
g-index

71
ext. papers

5,150
ext. citations

7.7
avg, IF

5.91
L-index

#	Paper	IF	Citations
69	Majorana fermion induced resonant Andreev reflection. <i>Physical Review Letters</i> , 2009 , 103, 237001	7.4	628
68	Ising pairing in superconducting NbSe ₂ atomic layers. <i>Nature Physics</i> , 2016 , 12, 139-143	16.2	534
67	Evidence for two-dimensional Ising superconductivity in gated MoS ₂ . <i>Science</i> , 2015 , 350, 1353-7	33.3	421
66	Zero-bias peaks in the tunneling conductance of spin-orbit-coupled superconducting wires with and without Majorana end-states. <i>Physical Review Letters</i> , 2012 , 109, 267002	7.4	315
65	Majorana Kramers doublets in dx ² -y ² -wave superconductors with Rashba spin-orbit coupling. <i>Physical Review B</i> , 2012 , 86,	3.3	118
64	1T-TaS as a quantum spin liquid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6996-7000	11.5	115
63	Possible topological superconducting phases of MoS ₂ . <i>Physical Review Letters</i> , 2014 , 113, 097001	7.4	104
62	Selective equal-spin Andreev reflections induced by Majorana fermions. <i>Physical Review Letters</i> , 2014 , 112, 037001	7.4	98
61	Kekulé valence bond order in an extended Hubbard model on the honeycomb lattice with possible applications to twisted bilayer graphene. <i>Physical Review B</i> , 2018 , 98,	3.3	91
60	Two-dimensional superconductivity at the interface of a Bi ₂ Te ₃ /FeTe heterostructure. <i>Nature Communications</i> , 2014 , 5, 4247	17.4	84
59	Ising superconductivity and Majorana fermions in transition-metal dichalcogenides. <i>Physical Review B</i> , 2016 , 93,	3.3	83
58	Electronic Mach-Zehnder interferometer as a tool to probe fractional statistics. <i>Physical Review B</i> , 2006 , 74,	3.3	73
57	Correlated spin currents generated by resonant-crossed Andreev reflections in topological superconductors. <i>Nature Communications</i> , 2014 , 5, 3232	17.4	67
56	Detecting topological phases in cold atoms. <i>Physical Review Letters</i> , 2013 , 111, 120402	7.4	65
55	Robustness of Majorana fermion induced fractional Josephson effect in multichannel superconducting wires. <i>Physical Review B</i> , 2011 , 84,	3.3	63
54	An unusual continuous paramagnetic-limited superconducting phase transition in 2D NbSe. <i>Nature Materials</i> , 2018 , 17, 504-508	27	58
53	Shot noise in an anyonic Mach-Zehnder interferometer. <i>Physical Review B</i> , 2007 , 76,	3.3	58

52	Non-Abelian Majorana Doublets in Time-Reversal-Invariant Topological Superconductors. <i>Physical Review X</i> , 2014 , 4,	9.1	57
51	Majorana flat bands and unidirectional Majorana edge states in gapless topological superconductors. <i>Physical Review B</i> , 2013 , 88,	3.3	57
50	Majorana fermion induced nonlocal current correlations in spin-orbit coupled superconducting wires. <i>Physical Review B</i> , 2013 , 88,	3.3	50
49	Intrinsic valley Hall transport in atomically thin MoS. <i>Nature Communications</i> , 2019 , 10, 611	17.4	46
48	Nematic topological superconducting phase in Nb-doped Bi ₂ Se ₃ . <i>Npj Quantum Materials</i> , 2017 , 2,	5	41
47	Realization and detection of Weyl semimetals and the chiral anomaly in cold atomic systems. <i>Physical Review A</i> , 2016 , 94,	2.6	41
46	Transport evidence of asymmetric spin-orbit coupling in few-layer superconducting 1T-MoTe. <i>Nature Communications</i> , 2019 , 10, 2044	17.4	39
45	Magnetic field driven nodal topological superconductivity in monolayer transition metal dichalcogenides. <i>Communications Physics</i> , 2018 , 1,	5.4	38
44	Photovoltaic anomalous Hall effect in line-node semimetals. <i>Physical Review B</i> , 2016 , 94,	3.3	36
43	Quantum dot in a two-dimensional topological insulator: The two-channel Kondo fixed point. <i>Physical Review B</i> , 2010 , 81,	3.3	34
42	Spinon Fermi Surface in a Cluster Mott Insulator Model on a Triangular Lattice and Possible Application to 1T-TaS ₂ . <i>Physical Review Letters</i> , 2018 , 121, 046401	7.4	33
41	Disorder-induced multifractal superconductivity in monolayer niobium dichalcogenides. <i>Nature Physics</i> , 2019 , 15, 904-910	16.2	32
40	Topological Transitions Induced by Antiferromagnetism in a Thin-Film Topological Insulator. <i>Physical Review Letters</i> , 2018 , 121, 096802	7.4	32
39	Signature of a pair of Majorana zero modes in superconducting gold surface states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 8775-8782	11.5	31
38	Giant orbital magnetoelectric effect and current-induced magnetization switching in twisted bilayer graphene. <i>Nature Communications</i> , 2020 , 11, 1650	17.4	30
37	Quasi-one-dimensional quantum anomalous Hall systems as new platforms for scalable topological quantum computation. <i>Physical Review B</i> , 2018 , 97,	3.3	28
36	Spin-orbit coupling induced valley Hall effects in transition-metal dichalcogenides. <i>Communications Physics</i> , 2019 , 2,	5.4	27
35	Inducing Strong Superconductivity in WTe by a Proximity Effect. <i>ACS Nano</i> , 2018 , 12, 7185-7196	16.7	26

34	Proximity-induced surface superconductivity in Dirac semimetal CdAs. <i>Nature Communications</i> , 2019 , 10, 2217	17.4	23
33	Evidence of higher-order topology in multilayer WTe from Josephson coupling through anisotropic hinge states. <i>Nature Materials</i> , 2020 , 19, 974-979	27	22
32	Superconductivity-induced ferromagnetism and Weyl superconductivity in Nb-doped Bi ₂ Se ₃ . <i>Physical Review B</i> , 2017 , 95,	3-3	21
31	Effects of domain walls in quantum anomalous Hall insulator/superconductor heterostructures. <i>Physical Review B</i> , 2017 , 96,	3-3	19
30	Highly Tunable Nonlinear Hall Effects Induced by Spin-Orbit Couplings in Strained Polar Transition-Metal Dichalcogenides. <i>Physical Review Applied</i> , 2020 , 13,	4-3	18
29	Demonstrating lattice symmetry protection in topological crystalline superconductors. <i>Physical Review B</i> , 2014 , 90,	3-3	16
28	Negative quantum capacitance induced by midgap states in single-layer graphene. <i>Scientific Reports</i> , 2013 , 3, 2041	4-9	16
27	Probing non-Abelian statistics in $\nu=12/5$ quantum Hall state. <i>Physical Review B</i> , 2008 , 77,	3-3	16
26	Surface reactivity enhancement on a Pd/Bi ₂ Te ₃ heterostructure through robust topological surface states. <i>Scientific Reports</i> , 2013 , 3, 2497	4-9	14
25	Quantum phase transition between a Luttinger liquid and a gas of cold molecules. <i>Physical Review Letters</i> , 2008 , 101, 096401	7-4	14
24	Magnetoconductivity in Weyl semimetals: Effect of chemical potential and temperature. <i>Physical Review B</i> , 2017 , 96,	3-3	13
23	Weyl points and topological nodal superfluids in a face-centered-cubic optical lattice. <i>Physical Review B</i> , 2017 , 96,	3-3	13
22	Pseudogap and proximity effect in the Bi ₂ Te ₃ /Fe _{1+y} Te interfacial superconductor. <i>Scientific Reports</i> , 2016 , 6, 32508	4-9	11
21	Origin of bias-independent conductance plateaus and zero-bias conductance peaks in Bi ₂ Se ₃ /NbSe ₂ hybrid structures. <i>Physical Review B</i> , 2017 , 96,	3-3	11
20	Magnetoelectric effects in gyrotropic superconductors. <i>Physical Review Research</i> , 2020 , 2,	3-9	11
19	Probing Majorana flat bands in nodal dx ² -y ² -wave superconductors with Rashba spin-orbit coupling. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 55, 30-36	3	10
18	Spin-Orbit-Parity-Coupled Superconductivity in Topological Monolayer WTe ₂ . <i>Physical Review Letters</i> , 2020 , 125, 107001	7-4	10
17	Asymmetric Josephson effect in inversion symmetry breaking topological materials. <i>Physical Review B</i> , 2018 , 98,	3-3	10

16	Valley Edelstein effect in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2018 , 98,	3.3	9
15	Spectroscopic fingerprint of chiral Majorana modes at the edge of a quantum anomalous Hall insulator/superconductor heterostructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 238-242	11.5	9
14	Chiral topological orders in an optical Raman lattice. <i>New Journal of Physics</i> , 2016 , 18, 035004	2.9	9
13	Pair Density Wave in the Doped t-J Model with Ring Exchange on a Triangular Lattice. <i>Physical Review Letters</i> , 2019 , 122, 167001	7.4	8
12	Emergent Josephson current of N=1 chiral topological superconductor in quantum anomalous Hall insulator/superconductor heterostructures. <i>Physical Review B</i> , 2018 , 98,	3.3	8
11	Valley-Polarized Quantum Anomalous Hall State in Moiré MoTe ₂ /WSe ₂ Heterobilayers.. <i>Physical Review Letters</i> , 2022 , 128, 026402	7.4	7
10	Evidence of the oscillatory magnetic anisotropy in Ni/Co/Ni/Cu(100). <i>Physical Review B</i> , 2003 , 67,	3.3	6
9	Lattice reconstruction induced multiple ultra-flat bands in twisted bilayer WSe. <i>Nature Communications</i> , 2021 , 12, 5601	17.4	6
8	Generating giant spin currents using nodal topological superconductors. <i>Physical Review B</i> , 2017 , 95,	3.3	5
7	Thermal coherence properties of topological insulator slabs in time-reversal symmetry breaking fields. <i>Physical Review B</i> , 2013 , 87,	3.3	5
6	Strongly enlarged topological regime and enhanced superconducting gap in nanowires coupled to Ising superconductors. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
5	From nodal-ring topological superfluids to spiral Majorana modes in cold atomic systems. <i>Physical Review A</i> , 2018 , 97,	2.6	4
4	Platform for engineering topological superconductors: Superlattices on Rashba superconductors. <i>Physical Review B</i> , 2016 , 94,	3.3	4
3	Kramers Weyl semimetals as quantum solenoids and their applications in spin-orbit torque devices. <i>Communications Physics</i> , 2021 , 4,	5.4	3
2	Kramers nodal line metals. <i>Nature Communications</i> , 2021 , 12, 3064	17.4	3
1	Topological superconductivity in EuS/Au/superconductor heterostructures. <i>Physical Review Research</i> , 2021 , 3,	3.9	2