Law, Kam Tuen

List of Publications by Year in Descending Order

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	Valley-Polarized Quantum Anomalous Hall State in Moir MoTe_{2}/WSe_{2} Heterobilayers.. *Physical Review Letters*, **2022**, 128, 026402	7.4	7
68	Topological superconductivity in EuS/Au/superconductor heterostructures. *Physical Review Research*, **2021**, 3,	3.9	2
67	Kramers Weyl semimetals as quantum solenoids and their applications in spin-orbit torque devices. *Communications Physics*, **2021**, 4,	5.4	3
66	Kramers nodal line metals. *Nature Communications*, **2021**, 12, 3064	17.4	3
65	Lattice reconstruction induced multiple ultra-flat bands in twisted bilayer WSe. *Nature Communications*, **2021**, 12, 5601	17.4	6
64	Evidence of higher-order topology in multilayer WTe from Josephson coupling through anisotropic hinge states. *Nature Materials*, **2020**, 19, 974-979	27	22
63	Highly Tunable Nonlinear Hall Effects Induced by Spin-Orbit Couplings in Strained Polar Transition-Metal Dichalcogenides. *Physical Review Applied*, **2020**, 13,	4.3	18
62	Giant orbital magnetoelectric effect and current-induced magnetization switching in twisted bilayer graphene. *Nature Communications*, **2020**, 11, 1650	17.4	30
61	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	11.5	31
60	Magnetoelectric effects in gyrotropic superconductors. *Physical Review Research*, **2020**, 2,	3.9	11
59	Strongly enlarged topological regime and enhanced superconducting gap in nanowires coupled to Ising superconductors. *Physical Review Research*, **2020**, 2,	3.9	5
58	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	11.5	9
57	Spin-Orbit-Parity-Coupled Superconductivity in Topological Monolayer WTe_{2}. *Physical Review Letters*, **2020**, 125, 107001	7.4	10
56	Proximity-induced surface superconductivity in Dirac semimetal CdAs. *Nature Communications*, **2019**, 10, 2217	17.4	23
55	Transport evidence of asymmetric spin-orbit coupling in few-layer superconducting 1T-MoTe. *Nature Communications*, **2019**, 10, 2044	17.4	39
54	Pair Density Wave in the Doped t-J Model with Ring Exchange on a Triangular Lattice. *Physical Review Letters*, **2019**, 122, 167001	7.4	8
53	Intrinsic valley Hall transport in atomically thin MoS. *Nature Communications*, **2019**, 10, 611	17.4	46

52	Disorder-induced multifractal superconductivity in monolayer niobium dichalcogenides. *Nature Physics*, **2019**, 15, 904-910	16.2	32
51	Spin-orbit coupling induced valley Hall effects in transition-metal dichalcogenides. *Communications Physics*, **2019**, 2,	5.4	27
50	From nodal-ring topological superfluids to spiral Majorana modes in cold atomic systems. *Physical Review A*, **2018**, 97,	2.6	4
49	An unusual continuous paramagnetic-limited superconducting phase transition in 2D NbSe. *Nature Materials*, **2018**, 17, 504-508	27	58
48	Quasi-one-dimensional quantum anomalous Hall systems as new platforms for scalable topological quantum computation. *Physical Review B*, **2018**, 97,	3.3	28
47	Valley Edelstein effect in monolayer transition-metal dichalcogenides. *Physical Review B*, **2018**, 98,	3.3	9
46	Spinon Fermi Surface in a Cluster Mott Insulator Model on a Triangular Lattice and Possible Application to 1T-TaS_{2}. *Physical Review Letters*, **2018**, 121, 046401	7.4	33
45	Inducing Strong Superconductivity in WTe by a Proximity Effect. *ACS Nano*, **2018**, 12, 7185-7196	16.7	26
44	Magnetic field driven nodal topological superconductivity in monolayer transition metal dichalcogenides. *Communications Physics*, **2018**, 1,	5.4	38
43	Emergent Josephson current of N=1 chiral topological superconductor in quantum anomalous Hall insulator/superconductor heterostructures. *Physical Review B*, **2018**, 98,	3.3	8
42	Kekul□valence bond order in an extended Hubbard model on the honeycomb lattice with possible applications to twisted bilayer graphene. *Physical Review B*, **2018**, 98,	3.3	91
41	Topological Transitions Induced by Antiferromagnetism in a Thin-Film Topological Insulator. *Physical Review Letters*, **2018**, 121, 096802	7.4	32
40	Asymmetric Josephson effect in inversion symmetry breaking topological materials. *Physical Review B*, **2018**, 98,	3.3	10
39	1T-TaS as a quantum spin liquid. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 6996-7000	11.5	115
38	Nematic topological superconducting phase in Nb-doped Bi2Se3. *Npj Quantum Materials*, **2017**, 2,	5	41
37	Magnetoconductivity in Weyl semimetals: Effect of chemical potential and temperature. *Physical Review B*, **2017**, 96,	3.3	13
36	Effects of domain walls in quantum anomalous Hall insulator/superconductor heterostructures. *Physical Review B*, **2017**, 96,	3.3	19
35	Generating giant spin currents using nodal topological superconductors. *Physical Review B*, **2017**, 95,	3.3	5

34	Origin of bias-independent conductance plateaus and zero-bias conductance peaks in Bi2Se3/NbSe2 hybrid structures. *Physical Review B*, **2017**, 96,	3.3	11
33	Superconductivity-induced ferromagnetism and Weyl superconductivity in Nb-doped Bi2Se3. *Physical Review B*, **2017**, 95,	3.3	21
32	Weyl points and topological nodal superfluids in a face-centered-cubic optical lattice. *Physical Review B*, **2017**, 96,	3.3	13
31	Ising superconductivity and Majorana fermions in transition-metal dichalcogenides. *Physical Review B*, **2016**, 93,	3.3	83
30	Pseudogap and proximity effect in the Bi2Te3/Fe1+yTe interfacial superconductor. *Scientific Reports*, **2016**, 6, 32508	4.9	11
29	Platform for engineering topological superconductors: Superlattices on Rashba superconductors. *Physical Review B*, **2016**, 94,	3.3	4
28	Photovoltaic anomalous Hall effect in line-node semimetals. *Physical Review B*, **2016**, 94,	3.3	36
27	Ising pairing in superconducting NbSe2 atomic layers. *Nature Physics*, **2016**, 12, 139-143	16.2	534
26	Chiral topological orders in an optical Raman lattice. *New Journal of Physics*, **2016**, 18, 035004	2.9	9
25	Realization and detection of Weyl semimetals and the chiral anomaly in cold atomic systems. *Physical Review A*, **2016**, 94,	2.6	41
24	Evidence for two-dimensional Ising superconductivity in gated MoS□ *Science*, **2015**, 350, 1353-7	33.3	421
23	Selective equal-spin Andreev reflections induced by Majorana fermions. *Physical Review Letters*, **2014**, 112, 037001	7.4	98
22	Correlated spin currents generated by resonant-crossed Andreev reflections in topological superconductors. *Nature Communications*, **2014**, 5, 3232	17.4	67
21	Possible topological superconducting phases of MoS2. *Physical Review Letters*, **2014**, 113, 097001	7.4	104
20	Non-Abelian Majorana Doublets in Time-Reversal-Invariant Topological Superconductors. *Physical Review X*, **2014**, 4,	9.1	57
19	Two-dimensional superconductivity at the interface of a Bi2Te3/FeTe heterostructure. *Nature Communications*, **2014**, 5, 4247	17.4	84
18	Probing Majorana flat bands in nodal dx2□2-wave superconductors with Rashba spin□orbit coupling. *Physica E: Low-Dimensional Systems and Nanostructures*, **2014**, 55, 30-36	3	10
17	Demonstrating lattice symmetry protection in topological crystalline superconductors. *Physical Review B*, **2014**, 90,	3.3	16

16	Surface reactivity enhancement on a Pd/Bi2Te3 heterostructure through robust topological surface states. *Scientific Reports*, **2013**, 3, 2497	4.9	14
15	Detecting topological phases in cold atoms. *Physical Review Letters*, **2013**, 111, 120402	7.4	65
14	Majorana fermion induced nonlocal current correlations in spin-orbit coupled superconducting wires. *Physical Review B*, **2013**, 88,	3.3	50
13	Thermal coherence properties of topological insulator slabs in time-reversal symmetry breaking fields. *Physical Review B*, **2013**, 87,	3.3	5
12	Majorana flat bands and unidirectional Majorana edge states in gapless topological superconductors. *Physical Review B*, **2013**, 88,	3.3	57
11	Negative quantum capacitance induced by midgap states in single-layer graphene. *Scientific Reports* , **2013**, 3, 2041	4.9	16
10	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	7.4	315
9	Majorana Kramers doublets in dx2□2-wave superconductors with Rashba spin-orbit coupling. *Physical Review B*, **2012**, 86,	3.3	118
8	Robustness of Majorana fermion induced fractional Josephson effect in multichannel superconducting wires. *Physical Review B*, **2011**, 84,	3.3	63
7	Quantum dot in a two-dimensional topological insulator: The two-channel Kondo fixed point. *Physical Review B*, **2010**, 81,	3.3	34
6	Majorana fermion induced resonant Andreev reflection. *Physical Review Letters*, **2009**, 103, 237001	7.4	628
5	Probing non-Abelian statistics in □12/5 quantum Hall state. *Physical Review B*, **2008**, 77,	3.3	16
4	Quantum phase transition between a Luttinger liquid and a gas of cold molecules. *Physical Review Letters*, **2008**, 101, 096401	7.4	14
3	Shot noise in an anyonic Mach-Zehnder interferometer. *Physical Review B*, **2007**, 76,	3.3	58
2	Electronic Mach-Zehnder interferometer as a tool to probe fractional statistics. *Physical Review B*, **2006**, 74,	3.3	73
1	Evidence of the oscillatory magnetic anisotropy in Ni/Co/Ni/Cu(100). *Physical Review B*, **2003**, 67,	3.3	6