

Ching-Kai Chiu

List of Publications by Year in Descending Order

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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.

25
papers

2,901
citations

18
h-index

27
g-index

27
ext. papers

3,793
ext. citations

8.2
avg, IF

5.71
L-index

#	Paper	IF	Citations
25	Fermion Doubling Theorems in Two-Dimensional Non-Hermitian Systems for Fermi Points and Exceptional Points. <i>Physical Review Letters</i> , 2021 , 126, 086401	7.4	14
24	Jones Polynomial and Knot Transitions in Hermitian and non-Hermitian Topological Semimetals. <i>Physical Review Letters</i> , 2020 , 124, 186402	7.4	36
23	Scalable Majorana vortex modes in iron-based superconductors. <i>Science Advances</i> , 2020 , 6, eaay0443	14.3	26
22	Realization of Symmetry-Enforced Two-Dimensional Dirac Fermions in Nonsymmorphic Bismuthene. <i>ACS Nano</i> , 2020 , 14, 1888-1894	16.7	18
21	Vortex Majorana braiding in a finite time. <i>Physical Review Research</i> , 2020 , 2,	3.9	10
20	Fractional Josephson effect with and without Majorana zero modes. <i>Physical Review B</i> , 2019 , 99,	3.3	28
19	Protocol for Reading Out Majorana Vortex Qubits and Testing Non-Abelian Statistics. <i>Physical Review Applied</i> , 2019 , 12,	4.3	6
18	Chiral Majorana fermion modes on the surface of superconducting topological insulators. <i>Europhysics Letters</i> , 2018 , 123, 47005	1.6	6
17	Helical Majorana edge mode in a superconducting antiferromagnetic quantum spin Hall insulator. <i>Physical Review B</i> , 2018 , 98,	3.3	6
16	Type-II Dirac surface states in topological crystalline insulators. <i>Physical Review B</i> , 2017 , 95,	3.3	28
15	Engineering of many-body Majorana states in a topological insulator/s-wave superconductor heterostructure. <i>Scientific Reports</i> , 2017 , 7, 3499	4.9	2
14	Conductance of a superconducting Coulomb-blockaded Majorana nanowire. <i>Physical Review B</i> , 2017 , 96,	3.3	37
13	Classification of topological quantum matter with symmetries. <i>Reviews of Modern Physics</i> , 2016 , 88,	40.5	1093
12	Drumhead surface states and topological nodal-line fermions in TlTaSe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	201
11	Ca ₃ P ₂ and other topological semimetals with line nodes and drumhead surface states. <i>Physical Review B</i> , 2016 , 93,	3.3	230
10	Topological nodal-line fermions in spin-orbit metal PbTaSe ₂ . <i>Nature Communications</i> , 2016 , 7, 10556	17.4	514
9	Induced spectral gap and pairing correlations from superconducting proximity effect. <i>Physical Review B</i> , 2016 , 94,	3.3	20

8	Majorana fermion exchange in strictly one-dimensional structures. <i>Europhysics Letters</i> , 2015 , 110, 100011.6	1.6	20
7	Interaction-enabled topological phases in topological insulator-superconductor heterostructures. <i>Physical Review B</i> , 2015 , 92,	3-3	18
6	Multiple signatures of topological transitions for interacting fermions in chain lattices. <i>Physical Review B</i> , 2015 , 92,	3-3	28
5	Strongly interacting Majorana fermions. <i>Physical Review B</i> , 2015 , 91,	3-3	53
4	Classification of reflection-symmetry-protected topological semimetals and nodal superconductors. <i>Physical Review B</i> , 2014 , 90,	3-3	200
3	Classification of topological insulators and superconductors in the presence of reflection symmetry. <i>Physical Review B</i> , 2013 , 88,	3-3	235
2	Stabilization of Majorana modes in magnetic vortices in the superconducting phase of topological insulators using topologically trivial bands. <i>Physical Review Letters</i> , 2012 , 109, 237009	7-4	19
1	Vortex lines in topological insulator-superconductor heterostructures. <i>Physical Review B</i> , 2011 , 84,	3-3	52