

# Yang-hao Chan

## 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.

31  
papers

1,269  
citations

17  
h-index

31  
g-index

31  
ext. papers

1,628  
ext. citations

7.1  
avg, IF

4.59  
L-index

#	Paper	IF	Citations
31	Unmasking the Origin of Kinks in the Photoemission Spectra of Cuprate Superconductors. <i>Physical Review Letters</i> , <b>2021</b> , 126, 146401	7.4	4
30	Discovering and understanding materials through computation. <i>Nature Materials</i> , <b>2021</b> , 20, 728-735	27	13
29	Giant exciton-enhanced shift currents and direct current conduction with subbandgap photo excitations produced by many-electron interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
28	Polaron spectral properties in doped ZnO and SrTiO <sub>3</sub> from first principles. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	1
27	Predominance of non-adiabatic effects in zero-point renormalization of the electronic band gap. <i>Npj Computational Materials</i> , <b>2020</b> , 6,	10.9	20
26	Symmetry-enforced band crossings in trigonal materials: Accordion states and Weyl nodal lines. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	9
25	Gapped electronic structure of epitaxial stanene on InSb(111). <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	68
24	In Situ Strain Tuning of the Dirac Surface States in BiSe Films. <i>Nano Letters</i> , <b>2018</b> , 18, 5628-5632	11.5	17
23	Topological band crossings in hexagonal materials. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	15
22	Unique Gap Structure and Symmetry of the Charge Density Wave in Single-Layer VSe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2018</b> , 121, 196402	7.4	90
21	On the possibility of magnetic Weyl fermions in non-symmorphic compound PtFeSb. <i>European Physical Journal B</i> , <b>2018</b> , 91, 1	1.2	6
20	Large quantum-spin-Hall gap in single-layer 1T'WSe. <i>Nature Communications</i> , <b>2018</b> , 9, 2003	17.4	74
19	Type-II Dirac surface states in topological crystalline insulators. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	28
18	Emergence of charge density waves and a pseudogap in single-layer TiTe. <i>Nature Communications</i> , <b>2017</b> , 8, 516	17.4	63
17	Elemental Topological Dirac Semimetal: BiSn on InSb(111). <i>Physical Review Letters</i> , <b>2017</b> , 118, 146402	7.4	71
16	Ising order in a magnetized Heisenberg chain subject to a uniform Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	9
15	Strain Engineering a 4B Charge Density Wave Phase in Transition Metal Dichalcogenide 1T-VSe. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	32

14	Dimensional Effects on the Charge Density Waves in Ultrathin Films of TiSe. <i>Nano Letters</i> , <b>2016</b> , 16, 6331-6336	4.6	46
13	Ca3P2 and other topological semimetals with line nodes and drumhead surface states. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	230
12	Spin texture in type-II Weyl semimetal WTe2. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	83
11	Hidden Order and Dimensional Crossover of the Charge Density Waves in TiSe. <i>Scientific Reports</i> , <b>2016</b> , 6, 37910	4.9	24
10	Strong Asymmetric Charge Carrier Dependence in Inelastic Electron Tunneling Spectroscopy of Graphene Phonons. <i>Physical Review Letters</i> , <b>2015</b> , 114, 245502	7.4	37
9	Multiple signatures of topological transitions for interacting fermions in chain lattices. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	28
8	Numerical analysis of spin-orbit-coupled one-dimensional Fermi gas in a magnetic field. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	2
7	Charge density wave transition in single-layer titanium diselenide. <i>Nature Communications</i> , <b>2015</b> , 6, 8943	7.4	154
6	Towards photonic quantum simulation of ground states of frustrated Heisenberg spin systems. <i>Scientific Reports</i> , <b>2014</b> , 4, 3583	4.9	9
5	Topological Bose-Mott insulators in a one-dimensional optical superlattice. <i>Physical Review Letters</i> , <b>2013</b> , 110, 075303	7.4	76
4	Evidence of a spin liquid with hard-core bosons in a square lattice. <i>New Journal of Physics</i> , <b>2012</b> , 14, 113039	3.9	5
3	Tensor network simulation of the phase diagram of the frustrated J1-J2 Heisenberg model on a checkerboard lattice. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	9
2	Supersolid and charge-density-wave states from anisotropic interaction in an optical lattice. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	6
1	Stabilization of the p-wave superfluid state in an optical lattice. <i>Physical Review Letters</i> , <b>2009</b> , 103, 070404	7.4	36