Yang-hao Chan

List of Publications by Citations

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	Ca3P2 and other topological semimetals with line nodes and drumhead surface states. *Physical Review B*, **2016**, 93,	3.3	230
30	Charge density wave transition in single-layer titanium diselenide. *Nature Communications*, **2015**, 6, 8943	17.4	154
29	Unique Gap Structure and Symmetry of the Charge Density Wave in Single-Layer VSe_{2}. *Physical Review Letters*, **2018**, 121, 196402	7.4	90
28	Spin texture in type-II Weyl semimetal WTe2. *Physical Review B*, **2016**, 94,	3.3	83
27	Topological Bose-Mott insulators in a one-dimensional optical superlattice. *Physical Review Letters*, **2013**, 110, 075303	7.4	76
26	Large quantum-spin-Hall gap in single-layer 1TWSe. *Nature Communications*, **2018**, 9, 2003	17.4	74
25	Elemental Topological Dirac Semimetal: Sn on InSb(111). *Physical Review Letters*, **2017**, 118, 146402	7.4	71
24	Gapped electronic structure of epitaxial stanene on InSb(111). *Physical Review B*, **2018**, 97,	3.3	68
23	Emergence of charge density waves and a pseudogap in single-layer TiTe. *Nature Communications*, **2017**, 8, 516	17.4	63
22	Dimensional Effects on the Charge Density Waves in Ultrathin Films of TiSe. *Nano Letters*, **2016**, 16, 6331-6336	11.3	46
21	Strong Asymmetric Charge Carrier Dependence in Inelastic Electron Tunneling Spectroscopy of Graphene Phonons. *Physical Review Letters*, **2015**, 114, 245502	7.4	37
20	Stabilization of the p-wave superfluid state in an optical lattice. *Physical Review Letters*, **2009**, 103, 070404	7.4	36
19	Strain Engineering a 4 Charge Density Wave Phase in Transition Metal Dichalcogenide 1T-VSe. *Physical Review Materials*, **2017**, 1,	3.2	32
18	Type-II Dirac surface states in topological crystalline insulators. *Physical Review B*, **2017**, 95,	3.3	28
17	Multiple signatures of topological transitions for interacting fermions in chain lattices. *Physical Review B*, **2015**, 92,	3.3	28
16	Hidden Order and Dimensional Crossover of the Charge Density Waves in TiSe. *Scientific Reports*, **2016**, 6, 37910	4.9	24
15	Predominance of non-adiabatic effects in zero-point renormalization of the electronic band gap. *Npj Computational Materials*, **2020**, 6,	10.9	20

14	In Situ Strain Tuning of the Dirac Surface States in BiSe Films. *Nano Letters*, **2018**, 18, 5628-5632	11.5	17
13	Topological band crossings in hexagonal materials. *Physical Review Materials*, **2018**, 2,	3.2	15
12	Discovering and understanding materials through computation. *Nature Materials*, **2021**, 20, 728-735	27	13
11	Towards photonic quantum simulation of ground states of frustrated Heisenberg spin systems. *Scientific Reports*, **2014**, 4, 3583	4.9	9
10	Ising order in a magnetized Heisenberg chain subject to a uniform Dzyaloshinskii-Moriya interaction. *Physical Review B*, **2017**, 96,	3.3	9
9	Tensor network simulation of the phase diagram of the frustrated J1-J2 Heisenberg model on a checkerboard lattice. *Physical Review B*, **2011**, 84,	3.3	9
8	Symmetry-enforced band crossings in trigonal materials: Accordion states and Weyl nodal lines. *Physical Review Materials*, **2019**, 3,	3.2	9
7	Supersolid and charge-density-wave states from anisotropic interaction in an optical lattice. *Physical Review A*, **2010**, 82,	2.6	6
6	On the possibility of magnetic Weyl fermions in non-symmorphic compound PtFeSb. *European Physical Journal B*, **2018**, 91, 1	1.2	6
5	Evidence of a spin liquid with hard-core bosons in a square lattice. *New Journal of Physics*, **2012**, 14, 113039	2.9	5
4	Unmasking the Origin of Kinks in the Photoemission Spectra of Cuprate Superconductors. *Physical Review Letters*, **2021**, 126, 146401	7.4	4
3	Giant exciton-enhanced shift currents and direct current conduction with subbandgap photo excitations produced by many-electron interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
2	Numerical analysis of spin-orbit-coupled one-dimensional Fermi gas in a magnetic field. *Physical Review B*, **2015**, 91,	3.3	2
1	Polaron spectral properties in doped ZnO and SrTiO3 from first principles. *Physical Review Research* , **2020**, 2,	3.9	1