

# Hoi Chun Po

## List of Publications by Year in descending order

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41  
papers

4,183  
citations

186265

28  
h-index

276875

41  
g-index

42  
all docs

42  
docs citations

42  
times ranked

3186  
citing authors

#	ARTICLE	IF	CITATIONS
1	Symmetry-based indicators of band topology in the 230 space groups. Nature Communications, 2017, 8, 50.	12.8	524
2	Comprehensive search for topological materials using symmetry indicators. Nature, 2019, 566, 486-489.	27.8	518
3	Origin of Mott Insulating Behavior and Superconductivity in Twisted Bilayer Graphene. Physical Review X, 2018, 8, .	8.9	428
4	Faithful tight-binding models and fragile topology of magic-angle bilayer graphene. Physical Review B, 2019, 99, .	3.2	278
5	Band structure of twisted bilayer graphene: Emergent symmetries, commensurate approximants, and Wannier obstructions. Physical Review B, 2018, 98, .	3.2	254
6	Fragile Topology and Wannier Obstructions. Physical Review Letters, 2018, 121, 126402.	7.8	236
7	Topological flat bands in frustrated kagome lattice CoSn. Nature Communications, 2020, 11, 4004.	12.8	203
8	Structure and topology of band structures in the 1651 magnetic space groups. Science Advances, 2018, 4, eaat8685.	10.3	194
9	Symmetry Indicators and Anomalous Surface States of Topological Crystalline Insulators. Physical Review X, 2018, 8, .	8.9	183
10	Efficient topological materials discovery using symmetry indicators. Nature Physics, 2019, 15, 470-476.	16.7	142
11	Filling constraints for spin-orbit coupled insulators in symmorphic and nonsymmorphic crystals. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14551-14556.	7.1	136
12	Filling-Enforced Gaplessness in Band Structures of the 230 Space Groups. Physical Review Letters, 2016, 117, 096404.	7.8	115
13	Chiral Floquet Phases of Many-Body Localized Bosons. Physical Review X, 2016, 6, .	8.9	111
14	Floquet topological phases protected by time glide symmetry. Physical Review B, 2017, 95, .	3.2	64
15	Noise-resilient quantum evolution steered by dynamical decoupling. Nature Communications, 2013, 4, 2254.	12.8	63
16	Refined symmetry indicators for topological superconductors in all space groups. Science Advances, 2020, 6, eaaz8367.	10.3	59
17	Radical chiral Floquet phases in a periodically driven Kitaev model and beyond. Physical Review B, 2017, 96, .	3.2	58
18	Lattice Homotopy Constraints on Phases of Quantum Magnets. Physical Review Letters, 2017, 119, 127202.	7.8	51

#	ARTICLE	IF	CITATIONS
19	Derivation of Wannier orbitals and minimal-basis tight-binding Hamiltonians for twisted bilayer graphene: First-principles approach. <i>Physical Review Research</i> , 2019, 1, .	3.6	49
20	Single-Shot Readout of a Nuclear Spin Weakly Coupled to a Nitrogen-Vacancy Center at Room Temperature. <i>Physical Review Letters</i> , 2017, 118, 150504.	7.8	46
21	Interacting invariants for Floquet phases of fermions in two dimensions. <i>Physical Review B</i> , 2019, 99, .	3.2	45
22	Symmetry indicators of band topology. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 263001.	1.8	44
23	Topological materials discovery by large-order symmetry indicators. <i>Science Advances</i> , 2019, 5, eaau8725.	10.3	43
24	$\mathbb{Z}^2$ -enriched symmetry indicators for topological superconductors in the 1651 magnetic space groups. <i>Physical Review Research</i> , 2021, 3, .	3.6	40
25	Topological materials discovery using electron filling constraints. <i>Nature Physics</i> , 2018, 14, 55-61.	16.7	39
26	Exciton-driven antiferromagnetic metal in a correlated van der Waals insulator. <i>Nature Communications</i> , 2021, 12, 4837.	12.8	39
27	Filling-enforced quantum band insulators in spin-orbit coupled crystals. <i>Science Advances</i> , 2016, 2, e1501782.	10.3	36
28	Fragile topological phases in interacting systems. <i>Physical Review B</i> , 2019, 99, .	3.2	34
29	Two-dimensional topological materials discovery by symmetry-indicator method. <i>Physical Review B</i> , 2019, 100, .	3.2	29
30	Magnetically brightened dark electron-phonon bound states in a van der Waals antiferromagnet. <i>Nature Communications</i> , 2022, 13, 98.	12.8	21
31	A two-dimensional algebraic quantum liquid produced by an atomic simulator of the quantum Lifshitz model. <i>Nature Communications</i> , 2015, 6, 8012.	12.8	20
32	Fractional Corner Charge of Sodium Chloride. <i>Physical Review X</i> , 2021, 11, .	8.9	17
33	Protection of centre spin coherence by dynamic nuclear spin polarization in diamond. <i>Nanoscale</i> , 2014, 6, 10134-10139.	5.6	14
34	Unconventional Hysteretic Transition in a Charge Density Wave. <i>Physical Review Letters</i> , 2022, 128, 036401.	7.8	14
35	Non-Luttinger quantum liquid of one-dimensional spin-orbit-coupled bosons. <i>Physical Review A</i> , 2014, 90, .	2.5	9
36	XFe <sub>4</sub> Ge <sub>2</sub> (X=Y,Lu) and Mn <sub>3</sub> Pt : Filling-enforced magnetic topological metals. <i>Physical Review B</i> , 2020, 101, .	3.2	5

#	ARTICLE	IF	CITATIONS
37	Fractional corner magnetization of collinear antiferromagnets. Physical Review B, 2021, 103, .	3.2	3
38	Inherited topological superconductivity in two-dimensional Dirac semimetals. Physical Review B, 2022, 105, .	3.2	3
39	Topological descendants of a multicritical Dirac semimetal with magnetism and strain. Physical Review B, 2021, 104, .	3.2	2
40	Signature of Many-Body Localization of Phonons in Strongly Disordered Superlattices. Nano Letters, 2021, 21, 7419-7425.	9.1	1
41	Topological invariants of a filling-enforced quantum band insulator. Physical Review B, 2021, 104, .	3.2	0