Hoi Chun Po

List of Publications by Year
in descending order

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	Magnetically brightened dark electron-phonon bound states in a van der Waals antiferromagnet. Nature Communications, 2022, 13, 98.	12.8	21
2	Unconventional Hysteretic Transition in a Charge Density Wave. Physical Review Letters, 2022, 128, 036401.	7.8	14
3	Inherited topological superconductivity in two-dimensional Dirac semimetals. Physical Review B, 2022, 105, .	3.2	3
4	Fractional corner magnetization of collinear antiferromagnets. Physical Review B, 2021, 103, .	3.2	3
5	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> -enriched symmetry indicators for topological superconductors in the 1651 magnetic space groups. Physical Review Research, 2021, 3, .	3.6	40
6	Signature of Many-Body Localization of Phonons in Strongly Disordered Superlattices. Nano Letters, 2021, 21, 7419-7425.	9.1	1
7	Topological invariants of a filling-enforced quantum band insulator. Physical Review B, 2021, 104, .	3.2	0
8	Exciton-driven antiferromagnetic metal in a correlated van der Waals insulator. Nature Communications, 2021, 12, 4837.	12.8	39
9	Topological descendants of a multicritical Dirac semimetal with magnetism and strain. Physical Review B, 2021, 104, .	3.2	2
10	Fractional Corner Charge of Sodium Chloride. Physical Review X, 2021, 11, .	8.9	17
11	Topological flat bands in frustrated kagome lattice CoSn. Nature Communications, 2020, 11, 4004.	12.8	203
12	Refined symmetry indicators for topological superconductors in all space groups. Science Advances, 2020, 6, eaaz8367.	10.3	59
13	XFe4Ge2(X=Y,Lu) and Mn3Pt : Filling-enforced magnetic topological metals. Physical Review B, 2020, 101, .	3.2	5
14	Symmetry indicators of band topology. Journal of Physics Condensed Matter, 2020, 32, 263001.	1.8	44
15	Two-dimensional topological materials discovery by symmetry-indicator method. Physical Review B, 2019, 100, .	3.2	29
16	Faithful tight-binding models and fragile topology of magic-angle bilayer graphene. Physical Review B, 2019, 99, .	3.2	278
17	Topological materials discovery by large-order symmetry indicators. Science Advances, 2019, 5, eaau8725.	10.3	43
18	Fragile topological phases in interacting systems. Physical Review B, 2019, 99, .	3.2	34

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19	Efficient topological materials discovery using symmetry indicators. Nature Physics, 2019, 15, 470-476.	16.7	142
20	Interacting invariants for Floquet phases of fermions in two dimensions. Physical Review B, 2019, 99, .	3.2	45
21	Comprehensive search for topological materials using symmetry indicators. Nature, 2019, 566, 486-489.	27.8	518
22	Derivation of Wannier orbitals and minimal-basis tight-binding Hamiltonians for twisted bilayer graphene: First-principles approach. Physical Review Research, 2019, 1, .	3.6	49
23	Topological materials discovery using electron filling constraints. Nature Physics, 2018, 14, 55-61.	16.7	39
24	Symmetry Indicators and Anomalous Surface States of Topological Crystalline Insulators. Physical Review X, 2018, 8, .	8.9	183
25	Origin of Mott Insulating Behavior and Superconductivity in Twisted Bilayer Graphene. Physical Review X, 2018, 8, .	8.9	428
26	Fragile Topology and Wannier Obstructions. Physical Review Letters, 2018, 121, 126402.	7.8	236
27	Structure and topology of band structures in the 1651 magnetic space groups. Science Advances, 2018, 4, eaat8685.	10.3	194
28	Band structure of twisted bilayer graphene: Emergent symmetries, commensurate approximants, and Wannier obstructions. Physical Review B, 2018, 98, .	3.2	254
29	Lattice Homotopy Constraints on Phases of Quantum Magnets. Physical Review Letters, 2017, 119, 127202.	7.8	51
30	Floquet topological phases protected by time glide symmetry. Physical Review B, 2017, 95, .	3.2	64
31	Radical chiral Floquet phases in a periodically driven Kitaev model and beyond. Physical Review B, 2017, 96, .	3.2	58
32	Single-Shot Readout of a Nuclear Spin Weakly Coupled to a Nitrogen-Vacancy Center at Room Temperature. Physical Review Letters, 2017, 118, 150504.	7.8	46
33	Symmetry-based indicators of band topology in the 230 space groups. Nature Communications, 2017, 8, 50.	12.8	524
34	Chiral Floquet Phases of Many-Body Localized Bosons. Physical Review X, 2016, 6, .	8.9	111
35	Filling-Enforced Gaplessness in Band Structures of the 230 Space Groups. Physical Review Letters, 2016, 117, 096404.	7.8	115
36	Filling-enforced quantum band insulators in spin-orbit coupled crystals. Science Advances, 2016, 2, e1501782.	10.3	36

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37	A two-dimensional algebraic quantum liquid produced by an atomic simulator of the quantum Lifshitz model. Nature Communications, 2015, 6, 8012.	12.8	20
38	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
39	Protection of centre spin coherence by dynamic nuclear spin polarization in diamond. Nanoscale, 2014, 6, 10134-10139.	5.6	14
40	Non-Luttinger quantum liquid of one-dimensional spin-orbit-coupled bosons. Physical Review A, 2014, 90, .	2.5	9
41	Noise-resilient quantum evolution steered by dynamical decoupling. Nature Communications, 2013, 4, 2254.	12.8	63