

Huaqing Huang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2530507/publications.pdf>

Version: 2024-02-01

54

papers

3,635

citations

186265

28

h-index

161849

54

g-index

54

all docs

54

docs citations

54

times ranked

4750

citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental observation of topological Fermi arcs in type-II Weyl semimetal MoTe2. <i>Nature Physics</i> , 2016, 12, 1105-1110.	16.7	663
2	Lorentz-violating type-II Dirac fermions in transition metal dichalcogenide PtTe2. <i>Nature Communications</i> , 2017, 8, 257.	12.8	337
3	Type-II Dirac fermions in the PtSe_2 class of transition metal dichalcogenides. <i>Physical Review B</i> , 2016, 94,	3.2	236
4	Topological nodal-line semimetals in alkaline-earth stannides, germanides, and silicides. <i>Physical Review B</i> , 2016, 93, .	3.2	201
5	Experimental evidence for type-II Dirac semimetal in PtSe_2 . <i>Physical Review B</i> , 2017, 96, .	3.2	199
6	Stable two-dimensional dumbbell stanene: A quantum spin Hall insulator. <i>Physical Review B</i> , 2014, 90, .	3.2	154
7	Direct observation of spin-layer locking by local Rashba effect in monolayer semiconducting PtSe_2 film. <i>Nature Communications</i> , 2017, 8, 14216.	12.8	151
8	Scanning Tunneling Microscopy of the WSe_2 Magnetism of a Single Carbon Vacancy in Graphene. <i>Physical Review Letters</i> , 2016, 117, 166801.	7.8	122
9	The existence/absence of Dirac cones in graphynes. <i>New Journal of Physics</i> , 2013, 15, 023004.	2.9	112
10	Quantum Spin Hall Effect and Spin Bott Index in a Quasicrystal Lattice. <i>Physical Review Letters</i> , 2018, 121, 126401.	7.8	99
11	Valley splitting in the van der Waals heterostructure $\text{WSe}_2/\text{MoS}_2$: The role of atom superposition. <i>Physical Review B</i> , 2019, 99, .	3.2	87
12	Two-dimensional Stiefel-Whitney insulators in liganded Xenes. <i>Npj Computational Materials</i> , 2022, 8, .	8.7	78
13	Emergence of a Chern-insulating state from a semi-Dirac dispersion. <i>Physical Review B</i> , 2015, 92, .	3.2	76
14	Theory of spin Bott index for quantum spin Hall states in nonperiodic systems. <i>Physical Review B</i> , 2018, 98, .	3.2	68
15	Topological Electride $\text{Y}_{2-\delta}\text{C}$. <i>Nano Letters</i> , 2018, 18, 1972-1977.	9.1	67
16	Black-hole horizon in the Dirac semimetal $\text{Zn}_2\text{In}_2\text{S}_5$. <i>Physical Review B</i> , 2018, 98, .	3.2	67
17	A Lieb-like lattice in a covalent-organic framework and its Stoner ferromagnetism. <i>Nature Communications</i> , 2019, 10, 2207.	12.8	67
18	Topological band evolution between Lieb and kagome lattices. <i>Physical Review B</i> , 2019, 99, .	3.2	66

#	ARTICLE	IF	CITATIONS
19	Topological superconducting phase in high-T _c superconductor MgB ₂ with Diracâ€“nodal-line fermions. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	52
20	Theory of the Dirac half metal and quantum anomalous Hall effect in Mn-intercalated epitaxial graphene. <i>Physical Review B</i> , 2015, 92, .	3.2	50
21	Tuning thermal conduction via extended defects in graphene. <i>Physical Review B</i> , 2013, 87, .	3.2	48
22	Tensile strained gray tin: Dirac semimetal for observing negative magnetoresistance with Shubnikovâ€“de Haas oscillations. <i>Physical Review B</i> , 2017, 95, .	3.2	45
23	Kagome bands disguised in a coloring-triangle lattice. <i>Physical Review B</i> , 2019, 99, .	3.2	42
24	Alloy Engineering of Topological Semimetal Phase Transition in $\text{MgTa}_{1-x}\text{Nb}_x$. <i>Physical Review Letters</i> , 2018, 120, 136403.	3.2	41
25	Nontrivial topology in bismuth-based III-V compounds. <i>Physical Review B</i> , 2014, 90, .	3.2	32
26	Quantum anomalous Hall phase in (001) double-perovskite monolayers via intersite spin-orbit coupling. <i>Physical Review B</i> , 2014, 90, .	3.2	30
27	Topological nodal-line semimetal in nonsymmorphic Cmce . <i>Physical Review B</i> , 2017, 96, .	3.2	29
28	Intrinsic quantum anomalous hall effect in a two-dimensional anilato-based lattice. <i>Nanoscale</i> , 2018, 10, 11901-11906.	5.6	29
29	Ubiquitous Spin-Orbit Coupling in a Screw Dislocation with High Spin Coherency. <i>Physical Review Letters</i> , 2018, 121, 066401.	7.8	29
30	Emerging topological states in quasi-2D materials. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2017, 7, e1296.	14.6	28
31	Comparison of quantum spin Hall states in quasicrystals and crystals. <i>Physical Review B</i> , 2019, 100, .	3.2	27
32	Magnetic Weyl semimetals with diamond structure realized in spinel compounds. <i>Physical Review B</i> , 2020, 101, .	3.2	27
33	Structural Amorphization-Induced Topological Order. <i>Physical Review Letters</i> , 2022, 128, 056401.	7.8	26
34	Weyl points created by a three-dimensional flat band. <i>Physical Review B</i> , 2019, 99, .	3.2	23
35	Robustness of topological insulating phase against vacancy, vacancy cluster, and grain boundary bulk defects. <i>Physical Review B</i> , 2020, 101, .	3.2	23
36	Topological states in quasicrystals. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.0	22

#	ARTICLE		IF	CITATIONS
37	Tunable topological semimetal states with ultraflat nodal rings in strained YN. <i>Physical Review B</i> , 2018, 98, .		3.2	21
38	Unidirectional Spin-orbit Interaction Induced by the Line Defect in Monolayer Transition Metal Dichalcogenides for High-Performance Devices. <i>Nano Letters</i> , 2019, 19, 6005-6012.		9.1	21
39	Electronic properties of SnTe-class topological crystalline insulator materials. <i>Chinese Physics B</i> , 2016, 25, 117313.		1.4	18
40	Time-reversal symmetry protected chiral interface states between quantum spin and quantum anomalous Hall insulators. <i>Physical Review B</i> , 2015, 92, .		3.2	17
41	A Unified View of Topological Phase Transition in Band Theory. <i>Research</i> , 2020, 2020, 7832610.		5.7	17
42	Topological semimetals from the perspective of first-principles calculations. <i>Journal of Applied Physics</i> , 2020, 128, .		2.5	15
43	Generic Orbital Design of Higher-Order Topological Quasicrystalline Insulators with Odd Five-Fold Rotation Symmetry. <i>Nano Letters</i> , 2021, 21, 7056-7062.		9.1	15
44	Pressure-induced Lifshitz transition in the type II Dirac semimetal PtTe2. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.		5.1	13
45	Aperiodic topological crystalline insulators. <i>Physical Review B</i> , 2020, 101, .		3.2	13
46	Higher-order topology induced by structural buckling. <i>National Science Review</i> , 2022, 9, .		9.5	11
47	Quasi-1D topological insulators. <i>Nature Materials</i> , 2016, 15, 129-130.		27.5	10
48	Emergence of a Two-Dimensional Topological Dirac Semimetal Phase in a Phthalocyanine-Based Covalent Organic Framework. <i>Chemistry of Materials</i> , 2022, 34, 3178-3184.		6.7	9
49	Visualization of edge-modulated charge-density-wave orders in monolayer transition-metal-dichalcogenide metal. <i>Communications Physics</i> , 2022, 5, .		5.3	9
50	Theory of Epitaxial Growth of Borophene on Layered Electride: Thermodynamic Stability and Kinetic Pathway. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6063-6069.		3.1	7
51	Effect of extended line defects on thermal conduction of carbon nanotubes: analyzing phonon structures by band unfolding. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 305402.		1.8	6
52	Li doped kagome spin liquid compounds. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21693-21698.		2.8	6
53	Finite-size effects and spin texture of hourglass fermions in KHgSb films. <i>Physical Review B</i> , 2017, 95, .		3.2	1
54	Angular momentum invoked band inversions in mirror symmetry protected topological states. <i>Physical Review B</i> , 2022, 105, .		3.2	1