

Huaqing Huang

List of Publications by Year in descending order

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54
papers

3,635
citations

186265
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all docs

54
docs citations

54
times ranked

4750
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological states in quasicrystals. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.0	22
2	Higher-order topology induced by structural buckling. <i>National Science Review</i> , 2022, 9, .	9.5	11
3	Two-dimensional Stiefel-Whitney insulators in liganded Xenes. <i>Npj Computational Materials</i> , 2022, 8, .	8.7	78
4	Structural Amorphization-Induced Topological Order. <i>Physical Review Letters</i> , 2022, 128, 056401.	7.8	26
5	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
6	Visualization of edge-modulated charge-density-wave orders in monolayer transition-metal-dichalcogenide metal. <i>Communications Physics</i> , 2022, 5, .	5.3	9
7	Angular momentum invoked band inversions in mirror symmetry protected topological states. <i>Physical Review B</i> , 2022, 105, .	3.2	1
8	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
9	Aperiodic topological crystalline insulators. <i>Physical Review B</i> , 2020, 101, .	3.2	13
10	Topological semimetals from the perspective of first-principles calculations. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	15
11	Magnetic Weyl semimetals with diamond structure realized in spinel compounds. <i>Physical Review B</i> , 2020, 101, .	3.2	27
12	Robustness of topological insulating phase against vacancy, vacancy cluster, and grain boundary bulk defects. <i>Physical Review B</i> , 2020, 101, .	3.2	23
13	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
14	A Unified View of Topological Phase Transition in Band Theory. <i>Research</i> , 2020, 2020, 7832610.	5.7	17
15	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
16	Comparison of quantum spin Hall states in quasicrystals and crystals. <i>Physical Review B</i> , 2019, 100, .	3.2	27
17	Weyl points created by a three-dimensional flat band. <i>Physical Review B</i> , 2019, 99, .	3.2	23
18	A Lieb-like lattice in a covalent-organic framework and its Stoner ferromagnetism. <i>Nature Communications</i> , 2019, 10, 2207.	12.8	67

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19	Topological superconducting phase in high-Tc superconductor MgB2 with Dirac nodal-line fermions. Npj Computational Materials, 2019, 5, .	8.7	52
20	Kagome bands disguised in a coloring-triangle lattice. Physical Review B, 2019, 99, .	3.2	42
21	Topological band evolution between Lieb and kagome lattices. Physical Review B, 2019, 99, .	3.2	66
22	Valley splitting in the van der Waals heterostructure WSe_2/MnTe : The role of atom superposition. Physical Review B, 2019, 99, .	10.2	17
23	Pressure-induced Lifshitz transition in the type II Dirac semimetal PtTe2. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	13
24	Topological Electrider Y_2C . Nano Letters, 2018, 18, 1972-1977.	9.1	67
25	Alloy Engineering of Topological Semimetal Phase Transition in MgTaN_3 . Physical Review Letters, 2018, 120, 136402.	10.8	68
26	Black-hole horizon in the Dirac semimetal $\text{Zn}_2\text{In}_2\text{S}_5$. Physical Review B, 2018, 98, .	3.2	67
27	Theory of spin Bott index for quantum spin Hall states in nonperiodic systems. Physical Review B, 2018, 98, .	3.2	68
28	Quantum Spin Hall Effect and Spin Bott Index in a Quasicrystal Lattice. Physical Review Letters, 2018, 121, 126401.	7.8	99
29	Intrinsic quantum anomalous hall effect in a two-dimensional anilato-based lattice. Nanoscale, 2018, 10, 11901-11906.	5.6	29
30	Li doped kagome spin liquid compounds. Physical Chemistry Chemical Physics, 2018, 20, 21693-21698.	2.8	6
31	Ubiquitous Spin-Orbit Coupling in a Screw Dislocation with High Spin Coherency. Physical Review Letters, 2018, 121, 066401.	7.8	29
32	Tunable topological semimetal states with ultraflat nodal rings in strained YN. Physical Review B, 2018, 98, .	3.2	21
33	Direct observation of spin-layer locking by local Rashba effect in monolayer semiconducting PtSe2 film. Nature Communications, 2017, 8, 14216.	12.8	151
34	Emerging topological states in quasi-two-dimensional materials. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2017, 7, e1296.	14.6	28
35	Experimental evidence for type-II Dirac semimetal in PtSe_2 . Physical Review B, 2017, 96, .	12.8	151
36	Lorentz-violating type-II Dirac fermions in transition metal dichalcogenide PtTe2. Nature Communications, 2017, 8, 257.	12.8	337

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37	Topological nodal-line semimetal in nonsymmorphic $Cmce$ -phase Ag_2S_2 . Physical Review B, 2017, 96, .	3.2	29
38	Finite-size effects and spin texture of hourglass fermions in KHgSb films. Physical Review B, 2017, 95, .	3.2	1
39	Tensile strained gray tin: Dirac semimetal for observing negative magnetoresistance with Shubnikov-de Haas oscillations. Physical Review B, 2017, 95, .	3.2	45
40	Experimental observation of topological Fermi arcs in type-II Weyl semimetal MoTe ₂ . Nature Physics, 2016, 12, 1105-1110.	16.7	663
41	Type-II Dirac fermions in the $PtSe$ class of transition metal dichalcogenides. Physical Review B, 2016, 94, .	3.2	236
42	Scanning Tunneling Microscopy of the Γ Magnetism of a Single Carbon Vacancy in Graphene. Physical Review Letters, 2016, 117, 166801.	7.8	122
43	Topological nodal-line semimetals in alkaline-earth stannides, germanides, and silicides. Physical Review B, 2016, 93, .	3.2	201
44	Electronic properties of SnTe-class topological crystalline insulator materials. Chinese Physics B, 2016, 25, 117313.	1.4	18
45	Quasi-1D topological insulators. Nature Materials, 2016, 15, 129-130.	27.5	10
46	Time-reversal symmetry protected chiral interface states between quantum spin and quantum anomalous Hall insulators. Physical Review B, 2015, 92, .	3.2	17
47	Emergence of a Chern-insulating state from a semi-Dirac dispersion. Physical Review B, 2015, 92, .	3.2	76
48	Theory of the Dirac half metal and quantum anomalous Hall effect in Mn-intercalated epitaxial graphene. Physical Review B, 2015, 92, .	3.2	50
49	Effect of extended line defects on thermal conduction of carbon nanotubes: analyzing phonon structures by band unfolding. Journal of Physics Condensed Matter, 2015, 27, 305402.	1.8	6
50	Stable two-dimensional dumbbell stanene: A quantum spin Hall insulator. Physical Review B, 2014, 90, .	3.2	154
51	Quantum anomalous Hall phase in (001) double-perovskite monolayers via intersite spin-orbit coupling. Physical Review B, 2014, 90, .	3.2	30
52	Nontrivial Z_2 topology in bismuth-based III-V compounds. Physical Review B, 2014, 90, .	3.2	32
53	The existence/absence of Dirac cones in graphynes. New Journal of Physics, 2013, 15, 023004.	2.9	112
54	Tuning thermal conduction via extended defects in graphene. Physical Review B, 2013, 87, .	3.2	48