

Zhen Bi

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,155
citations

394286

19
h-index

501076

28
g-index

28
all docs

28
docs citations

28
times ranked

1148
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction-enabled fractonic higher-order topological phases. <i>Physical Review B</i> , 2022, 105, .	1.1	9
2	Excitonic density wave and spin-valley superfluid in bilayer transition metal dichalcogenide. <i>Nature Communications</i> , 2021, 12, 642.	5.8	27
3	Yang-Lee edge singularity triggered entanglement transition. <i>Physical Review B</i> , 2021, 104, .	1.1	19
4	Unconventional ferroelectricity in moiré heterostructures. <i>Nature</i> , 2020, 588, 71-76.	13.7	165
5	Interplay of interactions and disorder at the superfluid-insulator transition: A dirty two-dimensional quantum critical point. <i>Physical Review B</i> , 2020, 101, .	1.1	11
6	Birefringence-like spin transport via linearly polarized antiferromagnetic magnons. <i>Nature Nanotechnology</i> , 2020, 15, 563-568.	15.6	85
7	Emergent fractons and algebraic quantum liquid from plaquette melting transitions. <i>Physical Review Research</i> , 2020, 2, .	1.3	34
8	Landau ordering phase transitions beyond the Landau paradigm. <i>Physical Review Research</i> , 2020, 2, .	1.3	13
9	Designing flat bands by strain. <i>Physical Review B</i> , 2019, 100, .	1.1	141
10	Lattice construction of duality with non-Abelian gauge fields in 2+1D. <i>Physical Review B</i> , 2019, 100, .	1.1	2
11	Superconductivity near a Ferroelectric Quantum Critical Point in Ultralow-Density Dirac Materials. <i>Physical Review X</i> , 2019, 9, .	2.8	22
12	Fractonic matter in symmetry-enriched $U(1) \times \mathbb{Z}_2$ gauge theory. <i>Physical Review B</i> , 2019, 100, .		
13	Adventure in Topological Phase Transitions in 3+1 -D: Non-Abelian Deconfined Quantum Criticalities and a Possible Duality. <i>Physical Review X</i> , 2019, 9, .	2.8	43
14	Lieb-Schultz-Mattis theorem and its generalizations from the perspective of the symmetry-protected topological phase. <i>Physical Review B</i> , 2018, 97, .	1.1	44
15	Classification of symmetry-protected phases for interacting fermions in two dimensions. <i>Physical Review B</i> , 2018, 97, .	1.1	47
16	Deconfined quantum critical point on the triangular lattice. <i>Physical Review B</i> , 2018, 97, .	1.1	21
17	Bilayer Graphene as a Platform for Bosonic Symmetry-Protected Topological States. <i>Physical Review Letters</i> , 2017, 118, 126801.	2.9	13
18	Instability of the non-Fermi-liquid state of the Sachdev-Ye-Kitaev model. <i>Physical Review B</i> , 2017, 95, .	1.1	84

#	ARTICLE	IF	CITATIONS
19	Model for continuous thermal metal to insulator transition. Physical Review B, 2017, 96, .	1.1	42
20	Out-of-time-order correlation in marginal many-body localized systems. Physical Review B, 2017, 95, .	1.1	35
21	Exotic quantum critical point on the surface of three-dimensional topological insulator. Physical Review B, 2016, 94, .	1.1	1
22	Quantum phase transitions between bosonic symmetry-protected topological states without sign problem: Nonlinear sigma model with a topological term. Physical Review B, 2016, 93, .	1.1	27
23	Classification and description of bosonic symmetry protected topological phases with semiclassical nonlinear sigma models. Physical Review B, 2015, 91, .	1.1	84
24	Construction and field theory of bosonic-symmetry-protected topological states beyond group cohomology. Physical Review B, 2015, 91, .	1.1	11
25	Bridging fermionic and bosonic short range entangled states. New Journal of Physics, 2015, 17, 075010.	1.2	28
26	Wave Function and Strange Correlator of Short-Range Entangled States. Physical Review Letters, 2014, 112, 247202.	2.9	56
27	Anyon and loop braiding statistics in field theories with a topological \hat{T} term. Physical Review B, 2014, 90, .	1.1	21
28	Line defects in three-dimensional symmetry-protected topological phases. Physical Review B, 2014, 89, .	1.1	14