

Jens H Bardarson

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

3,240
citations

279487

23
h-index

344852

36
g-index

37
all docs

37
docs citations

37
times ranked

2972
citing authors

#	ARTICLE	IF	CITATIONS
1	Unbounded Growth of Entanglement in Models of Many-Body Localization. Physical Review Letters, 2012, 109, 017202.	2.9	800
2	Many-Body Localization in a Disordered Quantum Ising Chain. Physical Review Letters, 2014, 113, 107204.	2.9	470
3	Negative magnetoresistance without well-defined chirality in the Weyl semimetal TaP. Nature Communications, 2016, 7, 11615.	5.8	429
4	Many-Body Localization Characterized from a One-Particle Perspective. Physical Review Letters, 2015, 115, 046603.	2.9	182
5	Superconductivity of doped Weyl semimetals: Finite-momentum pairing and electronic analog of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < mml:msup > < mml:mrow /> < mml:mn > 3 < /mml:mn > < /mml:msup > < /mml:math > \text{He-} < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < mml:mi > A < /mml:mi > < /mml:math > $ phase. Physical Review B, 2012, 86, .	1.1	167
6	Defining a bulk-edge correspondence for non-Hermitian Hamiltonians via singular-value decomposition. Physical Review A, 2019, 99, .	1.0	148
7	Quantum interference and Aharonov-Bohm oscillations in topological insulators. Reports on Progress in Physics, 2013, 76, 056501.	8.1	137
8	Phase diagram of the anisotropic spin-2 XXZ model: Infinite-system density matrix renormalization group study. Physical Review B, 2013, 87, .	1.1	115
9	Anomalous Nernst and thermal Hall effects in tilted Weyl semimetals. Physical Review B, 2017, 96, .	1.1	79
10	Signatures of the many-body localization transition in the dynamics of entanglement and bipartite fluctuations. New Journal of Physics, 2016, 18, 023046.	1.2	75
11	Quantum Mutual Information as a Probe for Many-Body Localization. Physical Review Letters, 2017, 118, 016804.	2.9	74
12	Unified bulk-boundary correspondence for band insulators. Physical Review B, 2018, 97, .	1.1	71
13	Visualizing the chiral anomaly in Dirac and Weyl semimetals with photoemission spectroscopy. Physical Review B, 2016, 93, .	1.1	45
14	One-particle density matrix characterization of many-body localization. Annalen Der Physik, 2017, 529, 1600356.	0.9	45
15	Mixed Axial-Torsional Anomaly in Weyl Semimetals. Physical Review Letters, 2019, 122, 056601.	2.9	42
16	Finding purifications with minimal entanglement. Physical Review B, 2018, 98, .	1.1	38
17	Robust Transport Signatures of Topological Superconductivity in Topological Insulator Nanowires. Physical Review Letters, 2014, 113, 107003.	2.9	34
18	Multiscale entanglement clusters at the many-body localization phase transition. Physical Review B, 2019, 99, .	1.1	34

#	ARTICLE	IF	CITATIONS
19	Landau levels, Bardeen polynomials, and Fermi arcs in Weyl semimetals: Lattice-based approach to the chiral anomaly. <i>Physical Review B</i> , 2019, 99, .	1.1	30
20	Detecting perfect transmission in Josephson junctions on the surface of three dimensional topological insulators. <i>New Journal of Physics</i> , 2014, 16, 053007.	1.2	27
21	Reversal of Thermoelectric Current in Tubular Nanowires. <i>Physical Review Letters</i> , 2017, 119, 036804.	2.9	25
22	Many-body localization in a fragmented Hilbert space. <i>Physical Review B</i> , 2021, 103, .	1.1	25
23	One-particle density matrix occupation spectrum of many-body localized states after a global quench. <i>Physical Review B</i> , 2017, 96, .	1.1	24
24	Conditions for fully gapped topological superconductivity in topological insulator nanowires. <i>SciPost Physics</i> , 2019, 6, .	1.5	18
25	Ballistic transport through irradiated graphene. <i>Physical Review B</i> , 2017, 96, .	1.1	16
26	Strongly angle-dependent magnetoresistance in Weyl semimetals with long-range disorder. <i>Physical Review B</i> , 2017, 96, .	1.1	15
27	Tenfold way and many-body zero modes in the Sachdev-Ye-Kitaev model. <i>Physical Review B</i> , 2019, 99, .	1.1	13
28	Conductance fluctuations and disorder induced $\nu = 1/2$ quantum Hall plateau in topological insulator nanowires. <i>Physical Review B</i> , 2017, 95, .	1.1	12
29	Anomalous conductance scaling in strained Weyl semimetals. <i>Physical Review Research</i> , 2019, 1, .	1.3	10
30	Electric manipulation of domain walls in magnetic Weyl semimetals via the axial anomaly. <i>SciPost Physics</i> , 2021, 10, .	1.5	9
31	Perfect transmission and Aharonov-Bohm oscillations in topological insulator nanowires with nonuniform cross section. <i>Physical Review B</i> , 2020, 101, .	1.1	7
32	Axial anomaly generation by domain wall motion in Weyl semimetals. <i>Physical Review B</i> , 2020, 102, .	1.1	7
33	Thermoelectric current in topological insulator nanowires with impurities. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1156-1161.	1.5	6
34	L^2 localization landscape for highly excited states. <i>Physical Review B</i> , 2020, 101, .	1.1	6
35	Transport in Topological Insulator Nanowires. <i>Springer Series in Solid-state Sciences</i> , 2018, , 93-114.	0.3	2
36	Exact lattice-model calculation of boundary modes for Weyl semimetals and graphene. <i>New Journal of Physics</i> , 2020, 22, 103042.	1.2	0