

Jens H Bardarson

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

3,240
citations

279798

23
h-index

345221

36
g-index

37
all docs

37
docs citations

37
times ranked

2972
citing authors

#	ARTICLE	IF	CITATIONS
1	Many-body localization in a fragmented Hilbert space. <i>Physical Review B</i> , 2021, 103, .	3.2	25
2	Electric manipulation of domain walls in magnetic Weyl semimetals via the axial anomaly. <i>SciPost Physics</i> , 2021, 10, .	4.9	9
3	Perfect transmission and Aharonov-Bohm oscillations in topological insulator nanowires with nonuniform cross section. <i>Physical Review B</i> , 2020, 101, .	3.2	7
4	Axial anomaly generation by domain wall motion in Weyl semimetals. <i>Physical Review B</i> , 2020, 102, .	3.2	7
5	L^2 localization landscape for highly excited states. <i>Physical Review B</i> , 2020, 101, .	3.2	6
6	Exact lattice-model calculation of boundary modes for Weyl semimetals and graphene. <i>New Journal of Physics</i> , 2020, 22, 103042.	2.9	0
7	Defining a bulk-edge correspondence for non-Hermitian Hamiltonians via singular-value decomposition. <i>Physical Review A</i> , 2019, 99, .	2.5	148
8	Tenfold way and many-body zero modes in the Sachdev-Ye-Kitaev model. <i>Physical Review B</i> , 2019, 99, .	3.2	13
9	Multiscale entanglement clusters at the many-body localization phase transition. <i>Physical Review B</i> , 2019, 99, .	3.2	34
10	Landau levels, Bardeen polynomials, and Fermi arcs in Weyl semimetals: Lattice-based approach to the chiral anomaly. <i>Physical Review B</i> , 2019, 99, .	3.2	30
11	Mixed Axial-Torsional Anomaly in Weyl Semimetals. <i>Physical Review Letters</i> , 2019, 122, 056601.	7.8	42
12	Anomalous conductance scaling in strained Weyl semimetals. <i>Physical Review Research</i> , 2019, 1, .	3.6	10
13	Conditions for fully gapped topological superconductivity in topological insulator nanowires. <i>SciPost Physics</i> , 2019, 6, .	4.9	18
14	Unified bulk-boundary correspondence for band insulators. <i>Physical Review B</i> , 2018, 97, .	3.2	71
15	Finding purifications with minimal entanglement. <i>Physical Review B</i> , 2018, 98, .	3.2	38
16	Transport in Topological Insulator Nanowires. <i>Springer Series in Solid-state Sciences</i> , 2018, , 93-114.	0.3	2
17	Thermoelectric current in topological insulator nanowires with impurities. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1156-1161.	2.8	6
18	Quantum Mutual Information as a Probe for Many-Body Localization. <i>Physical Review Letters</i> , 2017, 118, 016804.	7.8	74

#	ARTICLE	IF	CITATIONS
19	One-particle density matrix characterization of many-body localization. Annalen Der Physik, 2017, 529, 1600356.	2.4	45
20	Anomalous Nernst and thermal Hall effects in tilted Weyl semimetals. Physical Review B, 2017, 96, .	3.2	79
21	One-particle density matrix occupation spectrum of many-body localized states after a global quench. Physical Review B, 2017, 96, .	3.2	24
22	Reversal of Thermoelectric Current in Tubular Nanowires. Physical Review Letters, 2017, 119, 036804.	7.8	25
23	Conductance fluctuations and disorder induced $\frac{1}{2}$ quantum Hall plateau in topological insulator nanowires. Physical Review B, 2017, 95, .	3.2	120
24	Strongly angle-dependent magnetoresistance in Weyl semimetals with long-range disorder. Physical Review B, 2017, 96, .	3.2	15
25	Ballistic transport through irradiated graphene. Physical Review B, 2017, 96, .	3.2	16
26	Signatures of the many-body localization transition in the dynamics of entanglement and bipartite fluctuations. New Journal of Physics, 2016, 18, 023046.	2.9	75
27	Negative magnetoresistance without well-defined chirality in the Weyl semimetal TaP. Nature Communications, 2016, 7, 11615.	12.8	429
28	Visualizing the chiral anomaly in Dirac and Weyl semimetals with photoemission spectroscopy. Physical Review B, 2016, 93, .	3.2	45
29	Many-Body Localization Characterized from a One-Particle Perspective. Physical Review Letters, 2015, 115, 046603.	7.8	182
30	Detecting perfect transmission in Josephson junctions on the surface of three dimensional topological insulators. New Journal of Physics, 2014, 16, 053007.	2.9	27
31	Many-Body Localization in a Disordered Quantum Ising Chain. Physical Review Letters, 2014, 113, 107204.	7.8	470
32	Robust Transport Signatures of Topological Superconductivity in Topological Insulator Nanowires. Physical Review Letters, 2014, 113, 107003.	7.8	34
33	Quantum interference and Aharonov-Bohm oscillations in topological insulators. Reports on Progress in Physics, 2013, 76, 056501.	20.1	137
34	Phase diagram of the anisotropic spin-2 XXZ model: Infinite-system density matrix renormalization group study. Physical Review B, 2013, 87, .	3.2	115
35	Superconductivity of doped Weyl semimetals: Finite-momentum pairing and electronic analog of the 3He phase. Physical Review B, 2012, 86, .	3.2	167
36	Unbounded Growth of Entanglement in Models of Many-Body Localization. Physical Review Letters, 2012, 109, 017202.	7.8	800