

Jedediah H Pixley

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,785
citations

279798

23
h-index

265206

42
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55
all docs

55
docs citations

55
times ranked

1246
citing authors

#	ARTICLE	IF	CITATIONS
1	Nearest Neighbor Tight Binding Models with an Exact Mobility Edge in One Dimension. Physical Review Letters, 2015, 114, 146601.	7.8	208
2	Critical properties of the measurement-induced transition in random quantum circuits. Physical Review B, 2020, 101, .	3.2	177
3	Many-Body Localization and Quantum Nonergodicity in a Model with a Single-Particle Mobility Edge. Physical Review Letters, 2015, 115, 186601.	7.8	123
4	Anderson Localization and the Quantum Phase Diagram of Three Dimensional Disordered Dirac Semimetals. Physical Review Letters, 2015, 115, 076601.	7.8	101
5	Rare-Region-Induced Avoided Quantum Criticality in Disordered Three-Dimensional Dirac and Weyl Semimetals. Physical Review X, 2016, 6, .	8.9	82
6	Quantum nonergodicity and fermion localization in a system with a single-particle mobility edge. Physical Review B, 2016, 93, .	3.2	74
7	Interactions and Mobility Edges: Observing the Generalized Aubry-Andr� Model. Physical Review Letters, 2021, 126, 040603.	7.8	74
8	Kondo Destruction and Quantum Criticality in Kondo Lattice Systems. Journal of the Physical Society of Japan, 2014, 83, 061005.	1.6	67
9	Disorder in twisted bilayer graphene. Physical Review Research, 2020, 2, .	3.6	56
10	Operator Scaling Dimensions and Multifractality at Measurement-Induced Transitions. Physical Review Letters, 2022, 128, 050602.	7.8	55
11	Disorder-driven itinerant quantum criticality of three-dimensional massless Dirac fermions. Physical Review B, 2016, 93, .	3.2	50
12	Transport properties across the many-body localization transition in quasiperiodic and random systems. Physical Review B, 2017, 96, .	3.2	42
13	Many-body localization in incommensurate models with a mobility edge. Annalen Der Physik, 2017, 529, 1600399.	2.4	40
14	Single-particle excitations in disordered Weyl fluids. Physical Review B, 2017, 95, .	3.2	40
15	Magic-angle semimetals. Npj Quantum Materials, 2020, 5, .	5.2	37
16	Uncovering the hidden quantum critical point in disordered massless Dirac and Weyl semimetals. Physical Review B, 2016, 94, .	3.2	36
17	Weyl Semimetal to Metal Phase Transitions Driven by Quasiperiodic Potentials. Physical Review Letters, 2018, 120, 207604.	7.8	34
18	Do the surface Fermi arcs in Weyl semimetals survive disorder?. Physical Review B, 2018, 97, .	3.2	34

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19	Kondo Destruction and Valence Fluctuations in an Anderson Model. <i>Physical Review Letters</i> , 2012, 109, 086403.	7.8	33
20	Quantum Phases of the Shastry-Sutherland Kondo Lattice: Implications for the Global Phase Diagram of Heavy-Fermion Metals. <i>Physical Review Letters</i> , 2014, 113, 176402.	7.8	31
21	Moiré superlattice on the surface of a topological insulator. <i>Physical Review B</i> , 2021, 103, .	3.2	28
22	Berry phase manipulation in ultrathin SrRuO ₃ films. <i>Physical Review B</i> , 2020, 102, .	3.2	26
23	Frustration and multicriticality in the antiferromagnetic spin-1 chain. <i>Physical Review B</i> , 2014, 90, .	3.2	24
24	Quantum phases of disordered three-dimensional Majorana-Weyl fermions. <i>Physical Review B</i> , 2017, 95, .	3.2	20
25	Universal spectral form factor for many-body localization. <i>Physical Review Research</i> , 2021, 3, .	3.6	20
26	Evolution of Entanglement Spectra under Generic Quantum Dynamics. <i>Physical Review Letters</i> , 2019, 123, 190602.	7.8	19
27	Rare regions and avoided quantum criticality in disordered Weyl semimetals and superconductors. <i>Annals of Physics</i> , 2021, 435, 168455.	2.8	17
28	Controllable quantum point junction on the surface of an antiferromagnetic topological insulator. <i>Nature Communications</i> , 2021, 12, 3998.	12.8	17
29	Magnetic Weyl Semimetallic Phase in Thin Films of EuO . <i>Physical Review Letters</i> , 2021, 127, 277204.	7.8	17
30	Quantum criticality in the pseudogap Bose-Fermi Anderson and Kondo models: Interplay between fermion- and boson-induced Kondo destruction. <i>Physical Review B</i> , 2013, 88, .	3.2	16
31	Field-induced long-range magnetic order in the spin-singlet ground-state system YbAlO_3 . <i>Physical Review B</i> , 2013, 87, .	3.2	15
32	Real-space mean-field theory of a spin-1 Bose gas in synthetic dimensions. <i>Physical Review A</i> , 2016, 94, .	2.5	15
33	Avoided quantum criticality in exact numerical simulations of a single disordered Weyl cone. <i>Physical Review B</i> , 2020, 102, .	3.2	15
34	Magic-angle semimetals with chiral symmetry. <i>Physical Review B</i> , 2020, 101, .	3.2	15
35	Damping of Long-Wavelength Collective Modes in Spinor Bose-Fermi Mixtures. <i>Physical Review Letters</i> , 2015, 114, 225303.	7.8	13
36	Interaction-driven exotic quantum phases in spin-orbit-coupled spin-1 bosons. <i>Physical Review B</i> , 2016, 93, .	3.2	13

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37	Pairing correlations near a Kondo-destruction quantum critical point. <i>Physical Review B</i> , 2015, 91, .	3.2	12
38	Quantum Field Theory of Nematic Transitions in Spin-Orbit-Coupled Spin-1 Polar Bosons. <i>Physical Review Letters</i> , 2018, 121, 083402.	7.8	12
39	Long-Range Entanglement near a Kondo-Destruction Quantum Critical Point. <i>Physical Review Letters</i> , 2018, 121, 147602.	7.8	10
40	Strong-coupling phases of the spin-orbit-coupled spin-1 Bose-Hubbard chain: Odd-integer Mott lobes and helical magnetic phases. <i>Physical Review A</i> , 2017, 96, .	2.5	9
41	Filling-enforced nonsymmorphic Kondo semimetals in two dimensions. <i>Physical Review B</i> , 2017, 96, .	3.2	7
42	Zero-Field Ambient-Pressure Quantum Criticality in the Stoichiometric Non-Fermi Liquid System CeRhBi. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 064708.	1.6	7
43	Flat topological bands and eigenstate criticality in a quasiperiodic insulator. <i>Physical Review B</i> , 2021, 104, .	3.2	7
44	Random singlet state in Ba ₅ CuIr ₃ O ₁₂ single crystals. <i>Physical Review B</i> , 2020, 101, .	3.2	6
45	Strongly interacting spin-orbit coupled Bose-Einstein condensates in one dimension. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
46	Global phase diagram and momentum distribution of single-particle excitations in Kondo insulators. <i>Physical Review B</i> , 2018, 98, .	3.2	5
47	Entanglement entropy near Kondo-destruction quantum critical points. <i>Physical Review B</i> , 2015, 91, .	3.2	4
48	Chiral anomaly without Landau levels: From the quantum to the classical regime. <i>Physical Review B</i> , 2018, 98, .	3.2	4
49	Fractal x-ray edge problem at the critical point of the Aubry-Andr� model. <i>Physical Review B</i> , 2019, 100, .	3.2	3
50	Band manipulation and spin texture in interacting moir� helical edges. <i>Physical Review B</i> , 2021, 104, .	3.2	3
51	Critical local moment fluctuations and enhanced pairing correlations in a cluster Anderson model. <i>Physical Review B</i> , 2020, 101, .	3.2	2
52	Interaction-induced velocity renormalization in magic-angle twisted multilayer graphene. <i>2D Materials</i> , 2022, 9, 031001.	4.4	2
53	Efficient Monte Carlo simulation of a dissipative Ising chain. <i>AIP Advances</i> , 2018, 8, 101415.	1.3	1
54	Magnon Bose-Einstein condensation and superconductivity in a frustrated Kondo lattice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20462-20467.	7.1	1

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55	Long-range order and quantum criticality in a dissipative spin chain. Physical Review B, 2022, 105, .	3.2	0