

Jâ€b Marston

List of Publications by Year in descending order

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64
papers

5,017
citations

159585

30
h-index

114465

63
g-index

66
all docs

66
docs citations

66
times ranked

5678
citing authors

#	ARTICLE	IF	CITATIONS
1	Fire in the Earth System. <i>Science</i> , 2009, 324, 481-484.	12.6	2,330
2	Spin quantum Hall effect in unconventional superconductors. <i>Physical Review B</i> , 1999, 60, 4245-4254.	3.2	256
3	Spin-Peierls and spin-liquid phases of Kagomé quantum antiferromagnets. <i>Journal of Applied Physics</i> , 1991, 69, 5962-5964.	2.5	193
4	Bosonization and fermion liquids in dimensions greater than one. <i>Physical Review B</i> , 1993, 48, 7790-7808.	3.2	156
5	Time-Dependent Density-Matrix Renormalization Group: A Systematic Method for the Study of Quantum Many-Body Out-of-Equilibrium Systems. <i>Physical Review Letters</i> , 2002, 88, 256403.	7.8	148
6	Topological origin of equatorial waves. <i>Science</i> , 2017, 358, 1075-1077.	12.6	136
7	Two observable features of the staggered-flux phase at nonzero doping. <i>Physical Review B</i> , 1991, 43, 2866-2877.	3.2	116
8	Many-body theory of charge transfer in hyperthermal atomic scattering. <i>Physical Review B</i> , 1993, 48, 7809-7824.	3.2	93
9	Statistics of an Unstable Barotropic Jet from a Cumulant Expansion. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1955-1966.	1.7	89
10	Direct Statistical Simulation of Out-of-Equilibrium Jets. <i>Physical Review Letters</i> , 2013, 110, 104502.	7.8	86
11	Feedbacks and landscape-level vegetation dynamics. <i>Trends in Ecology and Evolution</i> , 2015, 30, 255-260.	8.7	77
12	ASTROPHYSICAL FLUID DYNAMICS VIA DIRECT STATISTICAL SIMULATION. <i>Astrophysical Journal</i> , 2011, 727, 127.	4.5	74
13	The Heisenberg antiferromagnet on an anisotropic triangular lattice: linear spin-wave theory. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 2965-2975.	1.8	70
14	Large-N solutions of the Heisenberg and Hubbard-Heisenberg models on the anisotropic triangular lattice: application to Cs ₂ CuCl ₄ and to the layered organic superconductors β -(BEDT-TTF) ₂ X	1.8	67
15	Broken Time-Reversal Symmetry in Strongly Correlated Ladder Structures. <i>Physical Review Letters</i> , 2003, 90, 186401.	7.8	63
16	Generalized Quasilinear Approximation: Application to Zonal Jets. <i>Physical Review Letters</i> , 2016, 116, 214501.	7.8	61
17	Instantons and massless fermions in (2+1)-dimensional lattice QED and antiferromagnets. <i>Physical Review Letters</i> , 1990, 64, 1166-1169.	7.8	57
18	Transport anomalies in a simplified model for a heavy-electron quantum critical point. <i>Physical Review B</i> , 2005, 72, .	3.2	56

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19	Stability and single-particle properties of bosonized Fermi liquids. <i>Physical Review B</i> , 1994, 50, 1351-1362.	3.2	49
20	Theory of fermion liquids. <i>Physical Review B</i> , 1995, 52, 8002-8027.	3.2	49
21	Multidimensional bosonization. <i>Advances in Physics</i> , 2000, 49, 141-228.	14.4	48
22	SU(N) quantum spin models: a variational wavefunction study. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 125215.	1.8	43
23	Charge transfer in hyperthermal energy collisions of Li+ with alkali-metal-covered Cu(001). I. Dynamics of charge state formation. <i>Physical Review B</i> , 1996, 54, 14765-14779.	3.2	41
24	Gauge interactions and bosonized fermion liquids. <i>Physical Review Letters</i> , 1994, 73, 284-287.	7.8	40
25	Staggered Flux Phase in a Model of Strongly Correlated Electrons. <i>Physical Review Letters</i> , 2002, 89, 056404.	7.8	38
26	Memory loss and Auger processes in a many-body theory of charge transfer. <i>Physical Review B</i> , 1996, 53, 13340-13356.	3.2	34
27	Field-theory analysis of a short-range pairing model. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, 2511-2526.	1.5	31
28	Chalker-Coddington Network Model is Quantum Critical. <i>Physical Review Letters</i> , 1999, 82, 4906-4909.	7.8	31
29	On the late-time behaviour of a bounded, inviscid two-dimensional flow. <i>Journal of Fluid Mechanics</i> , 2015, 783, 1-22.	3.4	31
30	Topological Gaseous Plasmon Polariton in Realistic Plasma. <i>Physical Review Letters</i> , 2020, 124, 195001.	7.8	31
31	Room-temperature Kondo effect in atom-surface scattering: Dynamical 1/N approach. <i>Physical Review B</i> , 1998, 58, 6982-6991.	3.2	30
32	Planetary Atmospheres as Nonequilibrium Condensed Matter. <i>Annual Review of Condensed Matter Physics</i> , 2012, 3, 285-310.	14.5	30
33	Mean-Field Calculations of Fluctuations in Nuclear Collisions. <i>Physical Review Letters</i> , 1985, 54, 1139-1141.	7.8	29
34	Enlarged symmetry and coherence in arrays of quantum dots. <i>Physical Review B</i> , 1999, 59, 12573-12578.	3.2	28
35	Three-dimensional rotating Couette flow via the generalised quasilinear approximation. <i>Journal of Fluid Mechanics</i> , 2017, 810, 412-428.	3.4	28
36	$\langle i \rangle^p \langle i \rangle^{\hat{A}} - (\text{BEDT}^{\hat{A}} - \text{TTF})_{\langle \text{sub} \rangle 2 \langle \text{sub} \rangle X}$ organic crystals: Superconducting versus anti-ferromagnetic instabilities in the Hubbard model on an anisotropic triangular lattice. <i>Canadian Journal of Physics</i> , 2001, 79, 1463-1467.	1.1	25

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37	Density-matrix renormalization-group analysis of quantum critical points: Quantum spin chains. <i>Physical Review B</i> , 2000, 62, 5546-5557.	3.2	22
38	Coulomb interaction and the Fermi liquid state: solution by bosonization. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 4909-4916.	1.8	20
39	Statistics of the general circulation from cumulant expansions. <i>Chaos</i> , 2010, 20, 041107.	2.5	19
40	Thermally Enhanced Neutralization in Hyperthermal Energy Ion Scattering. <i>Physical Review Letters</i> , 2003, 90, 013201.	7.8	18
41	Hyperviscosity and statistical equilibria of Euler turbulence on the torus and the sphere. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P07020.	2.3	18
42	Carbon dioxide and temperature. <i>Nature</i> , 1991, 349, 573-574.	27.8	15
43	Orbital currents and charge density waves in a generalized Hubbard ladder. <i>Annals of Physics</i> , 2006, 321, 894-933.	2.8	13
44	Statistics of the stochastically forced Lorenz attractor by the Fokker-Planck equation and cumulant expansions. <i>Physical Review E</i> , 2016, 94, 052218.	2.1	13
45	Fluctuations and large deviations of Reynolds stresses in zonal jet dynamics. <i>Physics of Fluids</i> , 2018, 30, 015110.	4.0	12
46	Excited state formation in low energy Li+ surface collisions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993, 11, 2133-2137.	2.1	10
47	Generalised quasilinear approximation of the helical magnetorotational instability. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	10
48	Dimensional reduction of direct statistical simulation. <i>Journal of Fluid Mechanics</i> , 2020, 898, .	3.4	10
49	Nontrivial topology in the continuous spectrum of a magnetized plasma. <i>Physical Review Research</i> , 2020, 2, .	3.6	10
50	Absence of instanton-induced spin-Peierls order in the flux phase. <i>Physical Review B</i> , 1990, 42, 10804-10806.	3.2	7
51	Charge transfer in hyperthermal energy collisions of Li+ with alkali-metal-covered Cu(001). II. Dynamics of excited-state formation. <i>Physical Review B</i> , 1996, 54, 14780-14790.	3.2	6
52	Reduced-Order Quasilinear Model of Ocean Boundary-Layer Turbulence. <i>Journal of Physical Oceanography</i> , 2020, 50, 537-558.	1.7	6
53	Direct statistical simulation of jets and vortices in 2D flows. <i>Physics of Fluids</i> , 2017, 29, .	4.0	5
54	Spin transport in a quantum spin orbital liquid. <i>Physical Review B</i> , 2021, 104, .	3.2	5

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55	Direct statistical simulation of low-order dynamo systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, .	2.1	5
56	Measurement of ultrasound velocity in the spin glass CuMn. Journal of Applied Physics, 1987, 61, 2074-2077.	2.5	4
57	Exact equal time statistics of Orszag's McLaughlin dynamics investigated using the Hopf characteristic functional approach. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P10007-P10007.	2.3	4
58	Energy and charge transfer for Na ⁺ ions scattered from a Ag(001) surface. Surface Science, 2015, 635, 37-43.	1.9	4
59	Generalized quasilinear approximation of the interaction of convection and mean flows in a thermal annulus. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180422.	2.1	4
60	Joint instability and abrupt nonlinear transitions in a differentially rotating plasma. Journal of Plasma Physics, 2019, 85, .	2.1	4
61	Transport in conductors and rectifiers: Mean-field Redfield equations and nonequilibrium Green's functions. Physical Review B, 2020, 102, .	3.2	3
62	Resistively detected NMR as a probe of the topological nature of conducting edge/surface states. Physical Review B, 2021, 104, .	3.2	3
63	Direct statistical simulation of the Lorenz system. Chaos, 2022, 32, 043111.	2.5	3
64	Characterization of PN junctions of doped Mott insulators. AIP Advances, 2021, 11, 125226.	1.3	0