

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	Direct statistical simulation of the Lorenz63 system. Chaos, 2022, 32, 043111.	2.5	3
2	Resistively detected NMR as a probe of the topological nature of conducting edge/surface states. Physical Review B, 2021, 104, .	3.2	3
3	Spin transport in a quantum spin orbital liquid. Physical Review B, 2021, 104, .	3.2	5
4	Direct statistical simulation of low-order dynamo systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, .	2.1	5
5	Characterization of PN junctions of doped Mott insulators. AIP Advances, 2021, 11, 125226.	1.3	0
6	Transport in conductors and rectifiers: Mean-field Redfield equations and nonequilibrium Green's functions. Physical Review B, 2020, 102, .	3.2	3
7	Reduced-Order Quasilinear Model of Ocean Boundary-Layer Turbulence. Journal of Physical Oceanography, 2020, 50, 537-558.	1.7	6
8	Topological Gaseous Plasmon Polariton in Realistic Plasma. Physical Review Letters, 2020, 124, 195001.	7.8	31
9	Dimensional reduction of direct statistical simulation. Journal of Fluid Mechanics, 2020, 898, .	3.4	10
10	Nontrivial topology in the continuous spectrum of a magnetized plasma. Physical Review Research, 2020, 2, .	3.6	10
11	Joint instability and abrupt nonlinear transitions in a differentially rotating plasma. Journal of Plasma Physics, 2019, 85, .	2.1	4
12	Fluctuations and large deviations of Reynolds stresses in zonal jet dynamics. Physics of Fluids, 2018, 30, 015110.	4.0	12
13	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
14	Three-dimensional rotating Couette flow via the generalised quasilinear approximation. Journal of Fluid Mechanics, 2017, 810, 412-428.	3.4	28
15	Topological origin of equatorial waves. Science, 2017, 358, 1075-1077.	12.6	136
16	Direct statistical simulation of jets and vortices in 2D flows. Physics of Fluids, 2017, 29, .	4.0	5
17	Statistics of the stochastically forced Lorenz attractor by the Fokker-Planck equation and cumulant expansions. Physical Review E, 2016, 94, 052218.	2.1	13
18	Generalized Quasilinear Approximation: Application to Zonal Jets. Physical Review Letters, 2016, 116, 214501.	7.8	61

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19	Generalised quasilinear approximation of the helical magnetorotational instability. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	10
20	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
21	Feedbacks and landscape-level vegetation dynamics. <i>Trends in Ecology and Evolution</i> , 2015, 30, 255-260.	8.7	77
22	Energy and charge transfer for Na ⁺ ions scattered from a Ag(001) surface. <i>Surface Science</i> , 2015, 635, 37-43.	1.9	4
23	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
24	Direct Statistical Simulation of Out-of-Equilibrium Jets. <i>Physical Review Letters</i> , 2013, 110, 104502.	7.8	86
25	Planetary Atmospheres as Nonequilibrium Condensed Matter. <i>Annual Review of Condensed Matter Physics</i> , 2012, 3, 285-310.	14.5	30
26	ASTROPHYSICAL FLUID DYNAMICS VIA DIRECT STATISTICAL SIMULATION. <i>Astrophysical Journal</i> , 2011, 727, 127.	4.5	74
27	Statistics of the general circulation from cumulant expansions. <i>Chaos</i> , 2010, 20, 041107.	2.5	19
28	Fire in the Earth System. <i>Science</i> , 2009, 324, 481-484.	12.6	2,330
29	Statistics of an Unstable Barotropic Jet from a Cumulant Expansion. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1955-1966.	1.7	89
30	SU(N) quantum spin models: a variational wavefunction study. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 125215.	1.8	43
31	Orbital currents and charge density waves in a generalized Hubbard ladder. <i>Annals of Physics</i> , 2006, 321, 894-933.	2.8	13
32	Exact equal time statistics of Orszag's McLaughlin dynamics investigated using the Hopf characteristic functional approach. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005, 2005, P10007-P10007.	2.3	4
33	Transport anomalies in a simplified model for a heavy-electron quantum critical point. <i>Physical Review B</i> , 2005, 72, .	3.2	56
34	Thermally Enhanced Neutralization in Hyperthermal Energy Ion Scattering. <i>Physical Review Letters</i> , 2003, 90, 013201.	7.8	18
35	Broken Time-Reversal Symmetry in Strongly Correlated Ladder Structures. <i>Physical Review Letters</i> , 2003, 90, 186401.	7.8	63
36	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

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37	Staggered Flux Phase in a Model of Strongly Correlated Electrons. Physical Review Letters, 2002, 89, 056404.	7.8	38
38	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 $\hat{\rho}$ -(BEDT-TTF) ₂ X 13, 5159-5181.	1.8	67
39	$\hat{\rho}$ -(BEDT-TTF) ₂ X organic crystals: Superconducting versus anti-ferromagnetic instabilities in the Hubbard model on an anisotropic triangular lattice. Canadian Journal of Physics, 2001, 79, 1463-1467.	1.1	25
40	Multidimensional bosonization. Advances in Physics, 2000, 49, 141-228.	14.4	48
41	Density-matrix renormalization-group analysis of quantum critical points: Quantum spin chains. Physical Review B, 2000, 62, 5546-5557.	3.2	22
42	Chalker-Coddington Network Model is Quantum Critical. Physical Review Letters, 1999, 82, 4906-4909.	7.8	31
43	Enlarged symmetry and coherence in arrays of quantum dots. Physical Review B, 1999, 59, 12573-12578.	3.2	28
44	Spin quantum Hall effect in unconventional superconductors. Physical Review B, 1999, 60, 4245-4254.	3.2	256
45	The Heisenberg antiferromagnet on an anisotropic triangular lattice: linear spin-wave theory. Journal of Physics Condensed Matter, 1999, 11, 2965-2975.	1.8	70
46	Room-temperature Kondo effect in atom-surface scattering: Dynamical 1/N approach. Physical Review B, 1998, 58, 6982-6991.	3.2	30
47	Charge transfer in hyperthermal energy collisions of Li ⁺ with alkali-metal-covered Cu(001). II. Dynamics of excited-state formation. Physical Review B, 1996, 54, 14780-14790.	3.2	6
48	Charge transfer in hyperthermal energy collisions of Li ⁺ with alkali-metal-covered Cu(001). I. Dynamics of charge state formation. Physical Review B, 1996, 54, 14765-14779.	3.2	41
49	Memory loss and Auger processes in a many-body theory of charge transfer. Physical Review B, 1996, 53, 13340-13356.	3.2	34
50	Theory of fermion liquids. Physical Review B, 1995, 52, 8002-8027.	3.2	49
51	Gauge interactions and bosonized fermion liquids. Physical Review Letters, 1994, 73, 284-287.	7.8	40
52	Stability and single-particle properties of bosonized Fermi liquids. Physical Review B, 1994, 50, 1351-1362.	3.2	49
53	Coulomb interaction and the Fermi liquid state: solution by bosonization. Journal of Physics Condensed Matter, 1994, 6, 4909-4916.	1.8	20
54	Bosonization and fermion liquids in dimensions greater than one. Physical Review B, 1993, 48, 7790-7808.	3.2	156

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55	Excited state formation in low energy Li+ surface collisions. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 2133-2137.	2.1	10
56	Many-body theory of charge transfer in hyperthermal atomic scattering. Physical Review B, 1993, 48, 7809-7824.	3.2	93
57	Spin-Peierls and spin-liquid phases of Kagomé quantum antiferromagnets. Journal of Applied Physics, 1991, 69, 5962-5964.	2.5	193
58	Carbon dioxide and temperature. Nature, 1991, 349, 573-574.	27.8	15
59	Two observable features of the staggered-flux phase at nonzero doping. Physical Review B, 1991, 43, 2866-2877.	3.2	116
60	Absence of instanton-induced spin-Peierls order in the flux phase. Physical Review B, 1990, 42, 10804-10806.	3.2	7
61	Instantons and massless fermions in (2+1)-dimensional lattice QED and antiferromagnets. Physical Review Letters, 1990, 64, 1166-1169.	7.8	57
62	Field-theory analysis of a short-range pairing model. Journal of Physics C: Solid State Physics, 1988, 21, 2511-2526.	1.5	31
63	Measurement of ultrasound velocity in the spin-glass CuMn. Journal of Applied Physics, 1987, 61, 2074-2077.	2.5	4
64	Mean-Field Calculations of Fluctuations in Nuclear Collisions. Physical Review Letters, 1985, 54, 1139-1141.	7.8	29