

Stephen Teitel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

3,467
citations

29
h-index

57
g-index

95
ext. papers

3,609
ext. citations

4.3
avg, IF

5.37
L-index

#	Paper	IF	Citations
92	Universality of stress-anisotropic and stress-isotropic jamming of frictionless spheres in three dimensions: Uniaxial versus isotropic compression.. <i>Physical Review E</i> , 2022 , 105, 024902	2.4	0
91	Critical scaling of compression-driven jamming of athermal frictionless spheres in suspension. <i>Physical Review E</i> , 2021 , 103, L040901	2.4	2
90	Depletion forces in athermally sheared mixtures of frictionless disks and rods in two dimensions. <i>Physical Review E</i> , 2020 , 102, 042908	2.4	2
89	Shear-driven flow of athermal, frictionless, spherocylinder suspensions in two dimensions: Spatial structure and correlations. <i>Physical Review E</i> , 2020 , 101, 032907	2.4	2
88	Shear-driven flow of athermal, frictionless, spherocylinder suspensions in two dimensions: Particle rotations and orientational ordering. <i>Physical Review E</i> , 2020 , 101, 032901	2.4	4
87	Athermal shearing of frictionless cross-shaped particles of varying aspect ratio. <i>Granular Matter</i> , 2020 , 22, 1	2.6	1
86	Dynamic length scales in athermal, shear-driven jamming of frictionless disks in two dimensions. <i>Physical Review E</i> , 2020 , 102, 042906	2.4	2
85	Orientalional Ordering in Athermally Sheared, Aspherical, Frictionless Particles. <i>Physical Review Letters</i> , 2019 , 122, 188002	7.4	17
84	Shear-driven flow of athermal, frictionless, spherocylinder suspensions in two dimensions: Stress, jamming, and contacts. <i>Physical Review E</i> , 2019 , 100, 032906	2.4	10
83	Compression-driven jamming of athermal frictionless spherocylinders in two dimensions. <i>Physical Review E</i> , 2018 , 97, 012905	2.4	22
82	Anomalous stress fluctuations in athermal two-dimensional amorphous solids. <i>Physical Review E</i> , 2017 , 96, 032902	2.4	8
81	Shear banding, discontinuous shear thickening, and rheological phase transitions in athermally sheared frictionless disks. <i>Physical Review E</i> , 2017 , 95, 052903	2.4	11
80	Effect of collisional elasticity on the Bagnold rheology of sheared frictionless two-dimensional disks. <i>Physical Review E</i> , 2017 , 95, 012902	2.4	4
79	Critical scaling of Bagnold rheology at the jamming transition of frictionless two-dimensional disks. <i>Physical Review E</i> , 2016 , 93, 052902	2.4	21
78	Compression- and shear-driven jamming of U-shaped particles in two dimensions. <i>Granular Matter</i> , 2015 , 17, 121-133	2.6	10
77	Statistics of conserved quantities in mechanically stable packings of frictionless disks above jamming. <i>Physical Review E</i> , 2015 , 91, 022207	2.4	6
76	Maximum entropy and the stress distribution in soft disk packings above jamming. <i>Physical Review E</i> , 2015 , 92, 022207	2.4	7

75	Search for hyperuniformity in mechanically stable packings of frictionless disks above jamming. <i>Physical Review E</i> , 2015 , 92, 052206	2.4	26
74	Dissipation and Rheology of Sheared Soft-Core Frictionless Disks Below Jamming. <i>Physical Review Letters</i> , 2014 , 112,	7.4	20
73	Universality of jamming criticality in overdamped shear-driven frictionless disks. <i>Physical Review Letters</i> , 2014 , 113, 148002	7.4	33
72	Pressure distribution and critical exponent in statically jammed and shear-driven frictionless disks. <i>Physical Review E</i> , 2014 , 89, 022201	2.4	4
71	The Two-Dimensional Fully Frustrated XY Model 2013 , 201-235		3
70	Athermal jamming versus thermalized glassiness in sheared frictionless particles. <i>Physical Review E</i> , 2013 , 88, 010301	2.4	16
69	Yielding dynamics of a Herschel-Bulkley fluid: a critical-like fluidization behaviour. <i>Soft Matter</i> , 2012 , 8, 4151	3.6	61
68	Herschel-Bulkley shearing rheology near the athermal jamming transition. <i>Physical Review Letters</i> , 2012 , 109, 108001	7.4	52
67	Critical scaling of shearing rheology at the jamming transition of soft-core frictionless disks. <i>Physical Review E</i> , 2011 , 83, 030302	2.4	72
66	Glassiness, rigidity, and jamming of frictionless soft core disks. <i>Physical Review E</i> , 2011 , 83, 031307	2.4	46
65	Finite-size scaling at the jamming transition: corrections to scaling and the correlation-length critical exponent. <i>Physical Review E</i> , 2011 , 83, 030303	2.4	56
64	Unified phase diagram for the three-dimensional XY model of a point-disordered type-II superconductor. <i>Physical Review B</i> , 2009 , 79,	3.3	6
63	Effect of Surface Structure on Shape Transformations of Gold Nanorods. <i>Journal of Computational and Theoretical Nanoscience</i> , 2007 , 4, 282-290	0.3	10
62	Critical scaling of shear viscosity at the jamming transition. <i>Physical Review Letters</i> , 2007 , 99, 178001	7.4	305
61	Vortex line ordering in the driven three-dimensional vortex glass. <i>Physical Review Letters</i> , 2006 , 97, 267002	7.4	2
60	Kink-antikink unbinding transition in the two-dimensional fully frustrated XY model. <i>Physical Review B</i> , 2005 , 71,	3.3	15
59	Melting of icosahedral gold nanoclusters from molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2005 , 122, 214722	3.9	171
58	Continuous-time Monte Carlo and spatial ordering in driven lattice gases: Application to driven vortices in periodic superconducting networks. <i>Physical Review B</i> , 2005 , 72,	3.3	7

57	Comment on "Effects of point defects on the phase diagram of vortex states in high-T(c) superconductors in the B//c Axis". <i>Physical Review Letters</i> , 2005 , 94, 219703; author reply 219704	7.4	6
56	Surface-driven bulk reorganization of gold nanorods. <i>Nano Letters</i> , 2005 , 5, 2174-8	11.5	65
55	Roughness of a tilted anharmonic string at depinning. <i>Physical Review E</i> , 2004 , 69, 062105	2.4	4
54	Lattice gas dynamics: application to driven vortices in two dimensional superconductors. <i>Physical Review Letters</i> , 2004 , 92, 247005	7.4	6
53	Effect of columnar disorder on the superconducting transition of a type-II superconductor in zero applied magnetic field. <i>Physical Review B</i> , 2004 , 70,	3.3	3
52	Melting and equilibrium shape of icosahedral gold nanoparticles. <i>Chemical Physics Letters</i> , 2004 , 394, 257-261	2.5	69
51	Search for a vortex loop blowout transition in a type-II superconductor in a finite magnetic field. <i>Physical Review B</i> , 2003 , 67,	3.3	5
50	Monte Carlo simulation of Fickian diffusion in the critical region. <i>Journal of Chemical Physics</i> , 2002 , 116, 3012-3017	3.9	11
49	Disorder driven melting of the vortex line lattice. <i>Physical Review Letters</i> , 2001 , 87, 137001	7.4	50
48	Depinning transition of a two-dimensional vortex lattice in a commensurate periodic potential. <i>Physical Review Letters</i> , 2001 , 86, 2126-9	7.4	10
47	Positional Disorder in the Fully Frustrated Josephson Junction Array: Random Gaussian Phase Shifts in the Fully Frustrated 2D XY Model. <i>Physical Review Letters</i> , 1999 , 82, 5313-5316	7.4	12
46	Correlation Lengths in the Vortex Line Liquid of a High- Tc Superconductor. <i>Physical Review Letters</i> , 1999 , 82, 2183-2186	7.4	15
45	Critical Behavior of the Meissner Transition in the Lattice London Superconductor. <i>Physical Review Letters</i> , 1998 , 80, 1964-1967	7.4	40
44	Glassiness versus Order in Densely Frustrated Josephson Arrays. <i>Physical Review Letters</i> , 1998 , 80, 105-108	7.4	34
43	Phase diagram of the two-dimensional lattice Coulomb gas. <i>Physical Review B</i> , 1997 , 55, 2756-2759	3.3	13
42	Helicity modulus and fluctuating type-II superconductors: Elastic approximation and numerical simulations. <i>Physical Review B</i> , 1997 , 55, 15197-15222	3.3	7
41	Phase transitions in high-Tc superconductors and the anisotropic three-dimensional XY model. <i>Physical Review B</i> , 1997 , 55, 11766-11777	3.3	14
40	Equilibrium phase transitions in Josephson junction arrays 1997 , 342-375		

39	Vortex Line Fluctuations and Phase Transitions in Type II Superconductors 1997 , 231-238		
38	Vortex lattice melting in 2D superconducting networks. <i>Physica B: Condensed Matter</i> , 1996 , 222, 287-292.8		1
37	Comment on "Longitudinal Superconductivity in Vortex-Line Phases: A Monte Carlo Study". <i>Physical Review Letters</i> , 1996 , 76, 714	7.4	8
36	Vortex-lattice melting in two-dimensional superconducting networks and films. <i>Physical Review B</i> , 1995 , 51, 6551-6574	3.3	55
35	Superconducting Coherence in a Vortex Line Liquid: Simulations with Finite lambda. <i>Physical Review Letters</i> , 1995 , 74, 2792-2795	7.4	38
34	Driven diffusion in the two-dimensional lattice Coulomb gas: A model for flux flow in superconducting networks. <i>Physical Review B</i> , 1994 , 50, 3149-3157	3.3	17
33	Helicity modulus and Meissner effect in a fluctuating type-II superconductor. <i>Physical Review Letters</i> , 1994 , 72, 2085-2088	7.4	17
32	Phase transitions and vortex-line entanglement in a model high-temperature superconductor. <i>Physical Review B</i> , 1994 , 49, 4136-4144	3.3	55
31	Vortex lattice melting in 2D superconductors and Josephson arrays. <i>Physical Review Letters</i> , 1994 , 73, 480-483	7.4	52
30	Vortex-line fluctuations in model high-temperature superconductors. <i>Physical Review B</i> , 1993 , 47, 359-373	3.3	97
29	Phase transitions in classical two-dimensional lattice Coulomb gases. <i>Physical Review B</i> , 1992 , 46, 3247-3262	3.3	69
28	Structure of a dense vortex-line liquid in a model high-Tc superconductor. <i>Physical Review B</i> , 1992 , 45, 5718-5721	3.3	16
27	Vortex-line-lattice melting, vortex-line cutting, and entanglement in model high-Tc superconductors. <i>Physical Review Letters</i> , 1991 , 66, 3301-3304	7.4	85
26	Effect of random pinning sites on behavior in Josephson-junction arrays. <i>Physical Review Letters</i> , 1991 , 67, 2894-2897	7.4	15
25	Dense two-dimensional classical Coulomb gas on a triangular lattice. <i>Physical Review Letters</i> , 1991 , 66, 2100-2103	7.4	29
24	The effect of dynamics on damage spreading in the two-dimensional classical XY model. <i>Journal of Physics A</i> , 1990 , 23, L891-L894		9
23	New critical behavior in the dense two-dimensional classical Coulomb gas. <i>Physical Review Letters</i> , 1990 , 64, 1483-1486	7.4	36
22	Flux-flow resistance in frustrated Josephson-junction arrays. <i>Physical Review Letters</i> , 1990 , 65, 2595-2598.4	7.4	26

21	Three-dimensional random XY model: Application to the superfluid transition of 4He in porous media. <i>Physical Review B</i> , 1990 , 41, 11388-11391	3.3	9
20	Localization as a Mechanism for the Transition to Anomalous Relaxation. <i>NATO ASI Series Series B: Physics</i> , 1990 , 295-300		
19	Diffusion and localization in hierarchical potentials. <i>Physical Review B</i> , 1989 , 39, 7045-7056	3.3	11
18	Finite-size scaling study of the three-dimensional classical XY model. <i>Physical Review B</i> , 1989 , 40, 9122-9125	3.3	87
17	Phase coherence and nonequilibrium behavior in Josephson junction arrays. <i>Physical Review Letters</i> , 1989 , 62, 673-676	7.4	122
16	Uniformly frustrated xy models: Ground state configurations. <i>Physica B: Condensed Matter</i> , 1988 , 152, 30-31	2.8	13
15	Transition to anomalous relaxation: Localization in a hierarchical potential. <i>Physical Review Letters</i> , 1988 , 60, 1154-1157	7.4	8
14	Diffusion and dynamical transition in hierarchical systems. <i>Physical Review B</i> , 1987 , 36, 684-698	3.3	17
13	Teitel and Domany respond. <i>Physical Review Letters</i> , 1986 , 56, 1755	7.4	8
12	Resistive transitions in regular superconducting wire networks. <i>Journal De Physique (Paris), Lettres</i> , 1985 , 46, 33-38		23
11	Interface models and the bulk phase transition of Ising systems. <i>Physical Review B</i> , 1985 , 32, 6110-6112	3.3	
10	Dynamical phase transitions in hierarchical structures. <i>Physical Review Letters</i> , 1985 , 55, 2176-2179	7.4	78
9	Phase transtions in frustrated two-dimensional XY models. <i>Physical Review B</i> , 1983 , 27, 598-601	3.3	442
8	Josephson-Junction Arrays in Transverse Magnetic Fields. <i>Physical Review Letters</i> , 1983 , 51, 1999-2002	7.4	316
7	Roughening and Facet Formation in Crystals. <i>Physical Review Letters</i> , 1983 , 50, 2017-2020	7.4	174
6	Small-signal ac conductivity and velocity overshoot in semiconductor materials. <i>Journal of Applied Physics</i> , 1982 , 53, 5006-5012	2.5	9
5	Third sound and thermal conduction in thin 4He films. <i>Journal of Low Temperature Physics</i> , 1982 , 46, 77-96	3.3	31
4	The distorted wave Born approximation: Application to elastodynamics. <i>Journal of Applied Physics</i> , 1981 , 52, 4363-4370	2.5	6

3	Dynamics of vortex pairs in superfluid films. <i>Physical Review B</i> , 1979 , 19, 1667-1670	3.3	59
2	Determination of crack characteristics from the quasistatic approximation for the scattering of elastic waves. <i>Journal of Applied Physics</i> , 1978 , 49, 5763-5767	2.5	14
1	Quasistatic approximation to the scattering of elastic waves by a circular crack. <i>Journal of Applied Physics</i> , 1978 , 49, 2599-2604	2.5	16