

Ricardo Brito

List of Publications by Year in descending order

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57
papers

1,499
citations

331259

21
h-index

315357

38
g-index

58
all docs

58
docs citations

58
times ranked

558
citing authors

#	ARTICLE	IF	CITATIONS
1	Extension of Haff's cooling law in granular flows. <i>Europhysics Letters</i> , 1998, 43, 497-502.	0.7	159
2	Mesoscopic Theory of Granular Fluids. <i>Physical Review Letters</i> , 1997, 79, 411-414.	2.9	158
3	Scaling Solutions of Inelastic Boltzmann Equations with Over-Populated High Energy Tails. <i>Journal of Statistical Physics</i> , 2002, 109, 407-432.	0.5	101
4	Efficiency of Brownian motors. <i>Europhysics Letters</i> , 1998, 43, 248-254.	0.7	95
5	High-energy tails for inelastic Maxwell models. <i>Europhysics Letters</i> , 2002, 58, 182-187.	0.7	67
6	Theoretical approach to two-dimensional traffic flow models. <i>Physical Review E</i> , 1995, 51, 175-187.	0.8	61
7	Fluctuation-Induced Casimir Forces in Granular Fluids. <i>Physical Review Letters</i> , 2006, 96, 178001.	2.9	53
8	Driven inelastic Maxwell models with high energy tails. <i>Physical Review E</i> , 2002, 65, 040301.	0.8	51
9	Segregation induced by inelasticity in a vibrofluidized granular mixture. <i>Physical Review E</i> , 2008, 77, 061301.	0.8	51
10	A Horizontal Brazil-Nut Effect and Its Reverse. <i>Physical Review Letters</i> , 2005, 95, 028001.	2.9	50
11	Patterns and Long Range Correlations in Idealized Granular Flows. <i>International Journal of Modern Physics C</i> , 1997, 08, 953-965.	0.8	48
12	Spatial correlations in compressible granular flows. <i>Physical Review E</i> , 1998, 57, R4891-R4894.	0.8	46
13	Dynamics of deviations from the Gaussian state in a freely cooling homogeneous system of smooth inelastic particles. <i>Granular Matter</i> , 2000, 2, 189-199.	1.1	44
14	Noise Reduction and Pattern Formation in Rapid Granular Flows. <i>International Journal of Modern Physics C</i> , 1998, 09, 1339-1351.	0.8	42
15	Statistical hydrodynamics of lattice-gas automata. <i>Physical Review E</i> , 1993, 48, 2655-2668.	0.8	38
16	Hydrodynamic modes in a confined granular fluid. <i>Physical Review E</i> , 2013, 87, 022209.	0.8	35
17	Competition of Brazil nut effect, buoyancy, and inelasticity induced segregation in a granular mixture. <i>European Physical Journal: Special Topics</i> , 2009, 179, 207-219.	1.2	33
18	Random versus deterministic two-dimensional traffic flow models. <i>Physical Review E</i> , 1995, 51, R835-R838.	0.8	30

#	ARTICLE	IF	CITATIONS
19	Evaluating research and researchers by the journal impact factor: Is it better than coin flipping?. Journal of Informetrics, 2019, 13, 314-324.	1.4	29
20	Staggered diffusivities in lattice gas cellular automata. Journal of Statistical Physics, 1991, 62, 283-295.	0.5	23
21	Generalized Casimir forces in nonequilibrium systems. Physical Review E, 2007, 76, 011113.	0.8	22
22	New Green-Kubo formulas for transport coefficients in hard-sphere, Langevin fluids and the likes. Europhysics Letters, 2006, 73, 183-189.	0.7	16
23	Research assessment by percentile-based double rank analysis. Journal of Informetrics, 2018, 12, 315-329.	1.4	15
24	The link between countries' economic and scientific wealth has a complex dependence on technological activity and research policy. Scientometrics, 2022, 127, 2871-2896.	1.6	15
25	Towards a Landau-Ginzburg-Type Theory for Granular Fluids. Journal of Statistical Physics, 2002, 107, 3-22.	0.5	14
26	Shear viscosity of a model for confined granular media. Physical Review E, 2014, 90, 062204.	0.8	14
27	Dynamical approach to the Casimir effect. Physical Review E, 2011, 83, 031102.	0.8	12
28	Double rank analysis for research assessment. Journal of Informetrics, 2018, 12, 31-41.	1.4	12
29	Ring kinetic theory for tagged-particle problems in lattice gases. Physical Review A, 1992, 46, 875-887.	1.0	11
30	Dissipative collapse of the adiabatic piston. Europhysics Letters, 2005, 70, 29-35.	0.7	11
31	Enskog kinetic theory for a model of a confined quasi-two-dimensional granular fluid. Physical Review E, 2018, 98, .	0.8	11
32	The inconsistency of h-index: A mathematical analysis. Journal of Informetrics, 2021, 15, 101106.	1.4	10
33	Lattice gases in slab geometries. Physical Review A, 1991, 44, 8384-8387.	1.0	9
34	Propagating staggered waves in cellular automata fluids. Journal of Physics A, 1991, 24, 3331-3349.	1.6	9
35	Relaxation and transport in FCHC lattice gases. Journal of Statistical Physics, 1994, 74, 1085-1115.	0.5	9
36	Generalized Green-Kubo formulas for fluids with impulsive, dissipative, stochastic, and conservative interactions. Physical Review E, 2005, 72, 061102.	0.8	9

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37	Technological research in the EU is less efficient than the world average. EU research policy risks Europe's future. <i>Journal of Informetrics</i> , 2018, 12, 718-731.	1.4	9
38	Probability and expected frequency of breakthroughs: basis and use of a robust method of research assessment. <i>Scientometrics</i> , 2019, 119, 213-235.	1.6	9
39	Like-for-like bibliometric substitutes for peer review: Advantages and limits of indicators calculated from the ep index. <i>Research Evaluation</i> , 2020, 29, 215-230.	1.3	8
40	Absence of dissipative solutions of the Schrödinger and Klein-Gordon equations with logarithmic nonlinearity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 128, 360-366.	0.9	7
41	Stress-stress correlation functions in lattice gases beyond Boltzmann's approximation. <i>Journal of Statistical Physics</i> , 1993, 70, 811-832.	0.5	7
42	Casimir forces in granular and other non equilibrium systems. <i>Granular Matter</i> , 2007, 10, 29-36.	1.1	6
43	Energy nonequipartition in a collisional model of a confined quasi-two-dimensional granular mixture. <i>Physical Review E</i> , 2020, 102, 052904.	0.8	6
44	Navier-Stokes transport coefficients for a model of a confined quasi-two-dimensional granular binary mixture. <i>Physics of Fluids</i> , 2021, 33, .	1.6	5
45	Stochastic quantization and Casimir forces. <i>Europhysics Letters</i> , 2011, 96, 50008.	0.7	4
46	Total number of papers and in a single percentile fully describes research impact—Revisiting concepts and applications. <i>Quantitative Science Studies</i> , 2021, 2, 544-559.	1.6	4
47	Collective motion of run-and-tumble repulsive and attractive particles in one-dimensional systems. <i>Soft Matter</i> , 2021, 17, 10479-10491.	1.2	4
48	Long-time tails in lattice gases violating detailed balance. <i>Physical Review E</i> , 1995, 52, 2657-2667.	0.8	3
49	Self-diffusion in simple models: Systems with long-range jumps. <i>Journal of Statistical Physics</i> , 1997, 87, 1131-1144.	0.5	2
50	Theory for diffusion-limited oscillating chemical reactions. <i>Journal of Statistical Physics</i> , 1997, 87, 1165-1178.	0.5	2
51	Might Europe one day again be a global scientific powerhouse? Analysis of ERC publications suggests it will not be possible without changes in research policy. <i>Quantitative Science Studies</i> , 2020, , 1-22.	1.6	2
52	Long-range inverse two-spin correlations in one-dimensional Potts lattices. <i>Journal of Statistical Physics</i> , 1989, 56, 33-42.	0.5	1
53	A fluctuation formula for the nonGalilean factor in lattice gas automata. <i>Journal of Physics A</i> , 1992, 25, L949-L954.	1.6	1
54	Velocity autocorrelation function in lattice gases from the ring kinetic theory. Comparison with numerical simulations. <i>Journal of Statistical Physics</i> , 1995, 80, 565-578.	0.5	1

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55	Clustering and collapse of a set of adiabatic pistons enclosing granular gases. Granular Matter, 2012, 14, 133-136.	1.1	1
56	Stability of the homogeneous steady state for a model of a confined quasi-two-dimensional granular fluid. EPJ Web of Conferences, 2021, 249, 04005.	0.1	1
57	The USA Dominates World Research in Basic Medicine and Biotechnology. Journal of Scientometric Research, 2020, 9, 154-162.	0.3	1