Ricardo Brito

List of Publications by Citations

56 papers	1,166 citations	19 h-index	33 g-index
58 ext. papers	1,330 ext. citations	2.5 avg, IF	4.54 L-index

#	Paper	IF	Citations
56	Mesoscopic Theory of Granular Fluids. *Physical Review Letters*, **1997**, 79, 411-414	7.4	120
55	Extension of Haff's cooling law in granular flows. *Europhysics Letters*, **1998**, 43, 497-502	1.6	102
54	Scaling Solutions of Inelastic Boltzmann Equations with Over-Populated High Energy Tails. *Journal of Statistical Physics*, **2002**, 109, 407-432	1.5	86
53	Efficiency of Brownian motors. *Europhysics Letters*, **1998**, 43, 248-254	1.6	83
52	Theoretical approach to two-dimensional traffic flow models. *Physical Review E*, **1995**, 51, 175-187	2.4	58
51	High-energy tails for inelastic Maxwell models. *Europhysics Letters*, **2002**, 58, 182-187	1.6	54
50	A horizontal Brazil-nut effect and its reverse. *Physical Review Letters*, **2005**, 95, 028001	7.4	45
49	Driven inelastic Maxwell models with high energy tails. *Physical Review E*, **2002**, 65, 040301	2.4	45
48	Fluctuation-induced casimir forces in granular fluids. *Physical Review Letters*, **2006**, 96, 178001	7.4	43
47	Segregation induced by inelasticity in a vibrofluidized granular mixture. *Physical Review E*, **2008**, 77, 061301	2.4	41
46	Dynamics of deviations from the Gaussian state in a freely cooling homogeneous system of smooth inelastic particles. *Granular Matter*, **2000**, 2, 189-199	2.6	40
45	Spatial correlations in compressible granular flows. *Physical Review E*, **1998**, 57, R4891-R4894	2.4	40
44	Statistical hydrodynamics of lattice-gas automata. *Physical Review E*, **1993**, 48, 2655-2668	2.4	31
43	Hydrodynamic modes in a confined granular fluid. *Physical Review E*, **2013**, 87, 022209	2.4	30
42	Patterns and Long Range Correlations in Idealized Granular Flows. *International Journal of Modern Physics C*, **1997**, 08, 953-965	1.1	29
41	Random versus deterministic two-dimensional traffic flow models. *Physical Review E*, **1995**, 51, R835-R838	2.4	27
40	Competition of Brazil nut effect, buoyancy, and inelasticity induced segregation in a granular mixture. *European Physical Journal: Special Topics*, **2009**, 179, 207-219	2.3	26

39	Staggered diffusivities in lattice gas cellular automata. *Journal of Statistical Physics*, **1991**, 62, 283-295	1.5	22
38	Generalized Casimir forces in nonequilibrium systems. *Physical Review E*, **2007**, 76, 011113	2.4	21
37	Evaluating research and researchers by the journal impact factor: Is it better than coin flipping?. *Journal of Informetrics*, **2019**, 13, 314-324	3.1	17
36	Towards a Landau□Ginzburg-Type Theory for Granular Fluids. *Journal of Statistical Physics*, **2002**, 107, 3-22	1.5	14
35	New Green-Kubo formulas for transport coefficients in hard-sphere, Langevin fluids and the likes. *Europhysics Letters*, **2006**, 73, 183-189	1.6	13
34	Research assessment by percentile-based double rank analysis. *Journal of Informetrics*, **2018**, 12, 315-329	3.1	12
33	Shear viscosity of a model for confined granular media. *Physical Review E*, **2014**, 90, 062204	2.4	12
32	Dissipative collapse of the adiabatic piston. *Europhysics Letters*, **2005**, 70, 29-35	1.6	11
31	Double rank analysis for research assessment. *Journal of Informetrics*, **2018**, 12, 31-41	3.1	10
30	Dynamical approach to the Casimir effect. *Physical Review E*, **2011**, 83, 031102	2.4	10
29	Noise Reduction and Pattern Formation in Rapid Granular Flows. *International Journal of Modern Physics C*, **1998**, 09, 1339-1351	1.1	9
28	Propagating staggered waves in cellular automata fluids. *Journal of Physics A*, **1991**, 24, 3331-3349		9
27	Generalized Green-Kubo formulas for fluids with impulsive, dissipative, stochastic, and conservative interactions. *Physical Review E*, **2005**, 72, 061102	2.4	8
26	Relaxation and transport in FCHC lattice gases. *Journal of Statistical Physics*, **1994**, 74, 1085-1115	1.5	8
25	Ring kinetic theory for tagged-particle problems in lattice gases. *Physical Review A*, **1992**, 46, 875-887	2.6	8
24	Technological research in the EU is less efficient than the world average. EU research policy risks Europeans□future. *Journal of Informetrics*, **2018**, 12, 718-731	3.1	8
23	Probability and expected frequency of breakthroughs: basis and use of a robust method of research assessment. *Scientometrics*, **2019**, 119, 213-235	3	7
22	Lattice gases in slab geometries. *Physical Review A*, **1991**, 44, 8384-8387	2.6	7

21	Stress-stress correlation functions in lattice gases beyond Boltzmann's approximation. *Journal of Statistical Physics*, **1993**, 70, 811-832	1.5	7
20	Enskog kinetic theory for a model of a confined quasi-two-dimensional granular fluid. *Physical Review E*, **2018**, 98,	2.4	7
19	Like-for-like bibliometric substitutes for peer review: Advantages and limits of indicators calculated from the ep index. *Research Evaluation*, **2020**, 29, 215-230	1.7	6
18	Absence of dissipative solutions of the schrdinger and Klein-Gordon equations with logarithmic nonlinearity. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1988**, 128, 360-366	2.3	6
17	Casimir forces in granular and other non equilibrium systems. *Granular Matter*, **2007**, 10, 29-36	2.6	5
16	The inconsistency of h-index: A mathematical analysis. *Journal of Informetrics*, **2021**, 15, 101106	3.1	4
15	Stochastic quantization and Casimir forces. *Europhysics Letters*, **2011**, 96, 50008	1.6	3
14	Long-time tails in lattice gases violating detailed balance. *Physical Review E*, **1995**, 52, 2657-2667	2.4	3
13	Energy nonequipartition in a collisional model of a confined quasi-two-dimensional granular mixture. *Physical Review E*, **2020**, 102, 052904	2.4	3
12	Self-diffusion in simple models: Systems with long-range jumps. *Journal of Statistical Physics*, **1997**, 87, 1131-1144	1.5	2
11	Theory for diffusion-limited oscillating chemical reactions. *Journal of Statistical Physics*, **1997**, 87, 1165-1178	1.5	2
10	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. *Quantitative Science Studies*, **2020**, 1-22	3.8	2
9	NavierStokes transport coefficients for a model of a confined quasi-two-dimensional granular binary mixture. *Physics of Fluids*, **2021**, 33, 023310	4.4	2
8	The link between countries economic and scientific wealth has a complex dependence on technological activity and research policy. *Scientometrics*,1	3	2
7	Clustering and collapse of a set of adiabatic pistons enclosing granular gases. *Granular Matter*, **2012** , 14, 133-136	2.6	1
6	Velocity autocorrelation function in lattice gases from the ring kinetic theory. Comparison with numerical simulations. *Journal of Statistical Physics*, **1995**, 80, 565-578	1.5	1
5	A fluctuation formula for the nonGalilean factor in lattice gas automata. *Journal of Physics A*, **1992**, 25, L949-L954		1
4	Total number of papers and in a single percentile fully describes research impact Revisiting concepts and applications. *Quantitative Science Studies*, **2021**, 2, 544-559	3.8	1

3	Collective motion of run-and-tumble repulsive and attractive particles in one-dimensional systems. *Soft Matter*, **2021**, 17, 10479-10491	3.6	0
2	Long-range inverse two-spin correlations in one-dimensional Potts lattices. *Journal of Statistical Physics*, **1989**, 56, 33-42	1.5	
1	Stability of the homogeneous steady state for a model of a confined quasi-two-dimensional granular fluid. *EPJ Web of Conferences*, **2021**, 249, 04005	0.3	