

# Eric Bertin

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,269  
citations

430874

18  
h-index

361022

35  
g-index

39  
all docs

39  
docs citations

39  
times ranked

928  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of microstructure anisotropy and rheology of soft jammed suspensions. <i>Soft Matter</i> , 2022, 18, 328-339.	2.7	3
2	Absorbing phase transitions in systems with mediated interactions. <i>Physical Review E</i> , 2022, 105, L032602.	2.1	0
3	Derivation of a constitutive model for the rheology of jammed soft suspensions from particle dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2022, 2022, 033206.	2.3	1
4	Models of Social Agents. <i>Springer Series in Synergetics</i> , 2021, , 129-158.	0.4	0
5	Nonequilibrium grand-canonical ensemble built from a physical particle reservoir. <i>Physical Review E</i> , 2021, 103, 022107.	2.1	3
6	Microscopic Theory for the Rheology of Jammed Soft Suspensions. <i>Physical Review Letters</i> , 2021, 127, 218003.	7.8	8
7	Emergence of Simple Characteristics for Heterogeneous Complex Social Agents. <i>Symmetry</i> , 2020, 12, 1281.	2.2	1
8	Non-additive large deviation function for the particle densities of driven systems in contact. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 063209.	2.3	1
9	Dense active matter model of motion patterns in confluent cell monolayers. <i>Nature Communications</i> , 2020, 11, 1405.	12.8	86
10	Giant fluctuations in the flow of fluidised soft glassy materials: an elasto-plastic modelling approach. <i>JPhys Materials</i> , 2020, 3, 025010.	4.2	7
11	Deflection of phototactic microswimmers through obstacle arrays. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	16
12	Criticality at a Finite Strain Rate in Fluidized Soft Glassy Materials. <i>Physical Review Letters</i> , 2019, 123, 108003.	7.8	6
13	In social complex systems, the whole can be more or less than (the sum of) the parts. <i>Comptes Rendus Physique</i> , 2019, 20, 329-335.	0.9	2
14	Lack of an equation of state for the nonequilibrium chemical potential of gases of active particles in contact. <i>Journal of Chemical Physics</i> , 2019, 150, 094108.	3.0	17
15	Effective diffusivity of microswimmers in a crowded environment. <i>Journal of Chemical Physics</i> , 2019, 150, 104901.	3.0	23
16	Understanding Dense Active Nematics from Microscopic Models. <i>Physical Review Letters</i> , 2019, 123, 258001.	7.8	22
17	Nonequilibrium chemical potentials of steady-state lattice gas models in contact: A large-deviation approach. <i>Physical Review E</i> , 2019, 100, 052125.	2.1	3
18	Large deviations and chemical potential in bulk-driven systems in contact. <i>Europhysics Letters</i> , 2018, 123, 10002.	2.0	9

#	ARTICLE	IF	CITATIONS
19	Nonlinear Rheology in a Model Biological Tissue. <i>Physical Review Letters</i> , 2017, 118, 158105.	7.8	41
20	A mass transport model with a simple non-factorized steady-state distribution. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 063201.	2.3	6
21	Photofocusing: Light and flow of phototactic microswimmer suspension. <i>Physical Review E</i> , 2016, 93, 051101.	2.1	18
22	Pressure of a gas of underdamped active dumbbells. <i>Physical Review E</i> , 2016, 93, 032605.	2.1	38
23	Comparison between Smoluchowski and Boltzmann approaches for self-propelled rods. <i>Physical Review E</i> , 2015, 92, 042141.	2.1	32
24	Large-Scale Chaos and Fluctuations in Active Nematics. <i>Physical Review Letters</i> , 2014, 113, 038302.	7.8	74
25	On the existence of a glass transition in a random energy model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 315002.	2.1	1
26	Mesoscopic theory for fluctuating active nematics. <i>New Journal of Physics</i> , 2013, 15, 085032.	2.9	101
27	Matrix products for the synthesis of stationary time series with a priori prescribed joint distributions. , 2012, , .		2
28	Nonlinear Field Equations for Aligning Self-Propelled Rods. <i>Physical Review Letters</i> , 2012, 109, 268701.	7.8	121
29	The influence of flux balance on the generalized chemical potential in mass transport models. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P09012.	2.3	5
30	Dependence of the Fluctuation-Dissipation Temperature on the Choice of Observable. <i>Physical Review Letters</i> , 2009, 103, 260602.	7.8	20
31	Competition between collective and individual dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20622-20626.	7.1	95
32	Intensive thermodynamic parameters in nonequilibrium systems. <i>Physical Review E</i> , 2007, 75, 031120.	2.1	44
33	Boltzmann and hydrodynamic description for self-propelled particles. <i>Physical Review E</i> , 2006, 74, 022101.	2.1	289
34	Definition and Relevance of Nonequilibrium Intensive Thermodynamic Parameters. <i>Physical Review Letters</i> , 2006, 96, 120601.	7.8	46
35	Global Fluctuations and Gumbel Statistics. <i>Physical Review Letters</i> , 2005, 95, 170601.	7.8	64
36	Subdiffusion and Dynamical Heterogeneities in a Lattice Glass Model. <i>Physical Review Letters</i> , 2005, 95, 015702.	7.8	22

#	ARTICLE	IF	CITATIONS
37	Nonequilibrium temperatures in steady-state systems with conserved energy. Physical Review E, 2005, 71, 046140.	2.1	15
38	Temperature in Nonequilibrium Systems with Conserved Energy. Physical Review Letters, 2004, 93, 230601.	7.8	27