

Alexandre P Solon

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,896
citations

471509

17
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

1127
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral density of individual trajectories of an active Brownian particle. <i>New Journal of Physics</i> , 2022, 24, 013018.	2.9	10
2	On the Einstein relation between mobility and diffusion coefficient in an active bath. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2022, 55, 184002.	2.1	9
3	Dynamic clustering of passive colloids in dense suspensions of motile bacteria. <i>Physical Review E</i> , 2022, 105, .	2.1	11
4	Susceptibility of Polar Flocks to Spatial Anisotropy. <i>Physical Review Letters</i> , 2022, 128, .	7.8	13
5	Fluctuation-Induced Phase Separation in Metric and Topological Models of Collective Motion. <i>Physical Review Letters</i> , 2021, 126, 148001.	7.8	18
6	Self-Organized Critical Coexistence Phase in Repulsive Active Particles. <i>Physical Review Letters</i> , 2020, 125, 168001.	7.8	47
7	Bodies in an interacting active fluid: far-field influence of a single body and interaction between two bodies. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 063211.	2.3	16
8	The 2020 motile active matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 193001.	1.8	242
9	Ramifications of disorder on active particles in one dimension. <i>Physical Review E</i> , 2019, 100, 052610.	2.1	18
10	Generalized thermodynamics of phase equilibria in scalar active matter. <i>Physical Review E</i> , 2018, 97, 020602.	2.1	112
11	Stresses in non-equilibrium fluids: Exact formulation and coarse-grained theory. <i>Journal of Chemical Physics</i> , 2018, 148, 084503.	3.0	24
12	Generic Long-Range Interactions Between Passive Bodies in an Active Fluid. <i>Physical Review Letters</i> , 2018, 120, 058002.	7.8	54
13	Phase Transition in Protocols Minimizing Work Fluctuations. <i>Physical Review Letters</i> , 2018, 120, 180605.	7.8	45
14	Nonequilibrium forces following quenches in active and thermal matter. <i>Physical Review E</i> , 2018, 97, 032125.	2.1	15
15	Generalized thermodynamics of motility-induced phase separation: phase equilibria, Laplace pressure, and change of ensembles. <i>New Journal of Physics</i> , 2018, 20, 075001.	2.9	115
16	Sedimentation of self-propelled Janus colloids: polarization and pressure. <i>New Journal of Physics</i> , 2018, 20, 115001.	2.9	33
17	Contact enhancement of locomotion in spreading cell colonies. <i>Nature Physics</i> , 2017, 13, 999-1005.	16.7	32
18	Stochastic Stirling Engine Operating in Contact with Active Baths. <i>Entropy</i> , 2017, 19, 193.	2.2	56

#	ARTICLE	IF	CITATIONS
19	Active Particles with Soft and Curved Walls: Equation of State, Ratchets, and Instabilities. Physical Review Letters, 2016, 117, 098001.	7.8	132
20	Pattern formation in flocking models: A hydrodynamic description. Physical Review E, 2015, 92, 062111.	2.1	46
21	From Phase to Microphase Separation in Flocking Models: The Essential Role of Nonequilibrium Fluctuations. Physical Review Letters, 2015, 114, 068101.	7.8	156
22	Pressure and Phase Equilibria in Interacting Active Brownian Spheres. Physical Review Letters, 2015, 114, 198301.	7.8	268
23	Pressure is not a state function for generic active fluids. Nature Physics, 2015, 11, 673-678.	16.7	356
24	Emergent Spatial Structures in Flocking Models: A Dynamical System Insight. Physical Review Letters, 2014, 112, 148102.	7.8	68