Alexandre P Solon

List of Publications by Year
in descending order

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	Pressure is not a state function for generic activeÂfluids. Nature Physics, 2015, 11, 673-678.	16.7	356
2	Pressure and Phase Equilibria in Interacting Active Brownian Spheres. Physical Review Letters, 2015, 114, 198301.	7.8	268
3	The 2020 motile active matter roadmap. Journal of Physics Condensed Matter, 2020, 32, 193001.	1.8	242
4	From Phase to Microphase Separation in Flocking Models: The Essential Role of Nonequilibrium Fluctuations. Physical Review Letters, 2015, 114, 068101.	7.8	156
5	Active Particles with Soft and Curved Walls: Equation of State, Ratchets, and Instabilities. Physical Review Letters, 2016, 117, 098001.	7.8	132
6	Generalized thermodynamics of motility-induced phase separation: phase equilibria, Laplace pressure, and change of ensembles. New Journal of Physics, 2018, 20, 075001.	2.9	115
7	Generalized thermodynamics of phase equilibria in scalar active matter. Physical Review E, 2018, 97, 020602.	2.1	112
8	Emergent Spatial Structures in Flocking Models: A Dynamical System Insight. Physical Review Letters, 2014, 112, 148102.	7.8	68
9	Stochastic Stirling Engine Operating in Contact with Active Baths. Entropy, 2017, 19, 193.	2.2	56
10	Generic Long-Range Interactions Between Passive Bodies in an Active Fluid. Physical Review Letters, 2018, 120, 058002.	7.8	54
11	Self-Organized Critical Coexistence Phase in Repulsive Active Particles. Physical Review Letters, 2020, 125, 168001.	7.8	47
12	Pattern formation in flocking models: A hydrodynamic description. Physical Review E, 2015, 92, 062111.	2.1	46
13	Phase Transition in Protocols Minimizing Work Fluctuations. Physical Review Letters, 2018, 120, 180605.	7.8	45
14	Sedimentation of self-propelled Janus colloids: polarization and pressure. New Journal of Physics, 2018, 20, 115001.	2.9	33
15	Contact enhancement of locomotion in spreading cell colonies. Nature Physics, 2017, 13, 999-1005.	16.7	32
16	Stresses in non-equilibrium fluids: Exact formulation and coarse-grained theory. Journal of Chemical Physics, 2018, 148, 084503.	3.0	24
17	Ramifications of disorder on active particles in one dimension. Physical Review E, 2019, 100, 052610.	2.1	18
18	Fluctuation-Induced Phase Separation in Metric and Topological Models of Collective Motion. Physical Review Letters, 2021, 126, 148001.	7.8	18

#	Article	IF	Citations
19	Bodies in an interacting active fluid: far-field influence of a single body and interaction between two bodies. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 063211.	2.3	16
20	Nonequilibrium forces following quenches in active and thermal matter. Physical Review E, 2018, 97, 032125.	2.1	15
21	Susceptibility of Polar Flocks to Spatial Anisotropy. Physical Review Letters, 2022, 128, .	7.8	13
22	Dynamic clustering of passive colloids in dense suspensions of motile bacteria. Physical Review E, 2022, 105, .	2.1	11
23	Spectral density of individual trajectories of an active Brownian particle. New Journal of Physics, 2022, 24, 013018.	2.9	10
24	On the Einstein relation between mobility and diffusion coefficient in an active bath. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 184002.	2.1	9