

# Lorenzo Caprini

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29 papers	476 citations	14 h-index	21 g-index
29 ext. papers	674 ext. citations	3.6 avg, IF	5.31 L-index

#	Paper	IF	Citations
29	Dynamics of active particles with space-dependent swim velocity.. <i>Soft Matter</i> , <b>2022</b> ,	3.6	3
28	The parental active model: A unifying stochastic description of self-propulsion.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 071102	3.9	2
27	Correlated escape of active particles across a potential barrier.. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 234902	3.9	3
26	Collective effects in confined active Brownian particles. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 244901	3.9	3
25	Generalized fluctuation-dissipation relations holding in non-equilibrium dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2021</b> , 2021, 063202	1.9	4
24	Fluctuation-Dissipation Relations in Active Matter Systems. <i>Symmetry</i> , <b>2021</b> , 13, 81	2.7	11
23	Spatial velocity correlations in inertial systems of active Brownian particles. <i>Soft Matter</i> , <b>2021</b> , 17, 4109-4121	3.6	18
22	Excess and loss of entropy production for different levels of coarse graining. <i>Physical Review E</i> , <b>2021</b> , 104, 024140	2.4	0
21	Handy fluctuation-dissipation relation to approach generic noisy systems and chaotic dynamics. <i>Physical Review E</i> , <b>2021</b> , 104, L032101	2.4	1
20	Inertial self-propelled particles. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 024902	3.9	24
19	Diffusion properties of self-propelled particles in cellular flows. <i>Soft Matter</i> , <b>2020</b> , 16, 5431-5438	3.6	7
18	How a local active force modifies the structural properties of polymers. <i>Soft Matter</i> , <b>2020</b> , 16, 2594-2604	3.6	3
17	Spontaneous Velocity Alignment in Motility-Induced Phase Separation. <i>Physical Review Letters</i> , <b>2020</b> , 124, 078001	7.4	56
16	Hidden velocity ordering in dense suspensions of self-propelled disks. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	21
15	Time-dependent properties of interacting active matter: Dynamical behavior of one-dimensional systems of self-propelled particles. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	15
14	Activity-controlled clogging and unclogging of microchannels. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	10
13	Active matter at high density: Velocity distribution and kinetic temperature. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 184901	3.9	8

12	Active escape dynamics: The effect of persistence on barrier crossing. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 024902	3.9	34
11	Irreversibility and typicality: A simple analytical result for the Ehrenfest model. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2019</b> , 524, 422-429	3.3	6
10	Transport of active particles in an open-wedge channel. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 144903	3.9	14
9	Activity induced delocalization and freezing in self-propelled systems. <i>Scientific Reports</i> , <b>2019</b> , 9, 1386	4.9	32
8	The entropy production of Ornstein-Uhlenbeck active particles: a path integral method for correlations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2019</b> , 2019, 053203	1.9	40
7	Active chiral particles under confinement: surface currents and bulk accumulation phenomena. <i>Soft Matter</i> , <b>2019</b> , 15, 2627-2637	3.6	28
6	A comparative study between two models of active cluster crystals. <i>Scientific Reports</i> , <b>2019</b> , 9, 16687	4.9	17
5	Linear response and correlation of a self-propelled particle in the presence of external fields. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2018</b> , 2018, 033203	1.9	37
4	Active particles under confinement and effective force generation among surfaces. <i>Soft Matter</i> , <b>2018</b> , 14, 9044-9054	3.6	55
3	Comment on "Entropy Production and Fluctuation Theorems for Active Matter". <i>Physical Review Letters</i> , <b>2018</b> , 121, 139801	7.4	19
2	Fourier's Law in a Generalized Piston Model. <i>Entropy</i> , <b>2017</b> , 19, 350	2.8	4
1	Hydrodynamics of simple active liquids: the emergence of velocity correlations. <i>New Journal of Physics</i> ,	2.9	1