

Demian Levis

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,272
citations

471061

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552369

26
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all docs

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docs citations

28
times ranked

806
citing authors

#	ARTICLE	IF	CITATIONS
1	Full Phase Diagram of Active Brownian Disks: From Melting to Motility-Induced Phase Separation. <i>Physical Review Letters</i> , 2018, 121, 098003.	2.9	227
2	Nonequilibrium Equation of State in Suspensions of Active Colloids. <i>Physical Review X</i> , 2015, 5, .	2.8	131
3	Collective Behavior of Chiral Active Matter: Pattern Formation and Enhanced Flocking. <i>Physical Review Letters</i> , 2017, 119, 058002.	2.9	126
4	Clustering and heterogeneous dynamics in a kinetic Monte Carlo model of self-propelled hard disks. <i>Physical Review E</i> , 2014, 89, 062301.	0.8	89
5	Motility-Induced Microphase and Macrophase Separation in a Two-Dimensional Active Brownian Particle System. <i>Physical Review Letters</i> , 2020, 125, 178004.	2.9	76
6	Collective motion of active Brownian particles with polar alignment. <i>Soft Matter</i> , 2018, 14, 2610-2618.	1.2	75
7	Active Brownian equation of state: metastability and phase coexistence. <i>Soft Matter</i> , 2017, 13, 8113-8119.	1.2	70
8	From single-particle to collective effective temperatures in an active fluid of self-propelled particles. <i>Europhysics Letters</i> , 2015, 111, 60006.	0.7	69
9	Thermal Phase Transitions in Artificial Spin Ice. <i>Physical Review Letters</i> , 2013, 110, 207206.	2.9	49
10	Velocity alignment promotes motility-induced phase separation. <i>Europhysics Letters</i> , 2018, 124, 30004.	0.7	47
11	Linear Response Theory and Green-Kubo Relations for Active Matter. <i>Physical Review Letters</i> , 2019, 123, 238003.	2.9	42
12	Simultaneous phase separation and pattern formation in chiral active mixtures. <i>Physical Review E</i> , 2019, 100, 012406.	0.8	30
13	Out-of-equilibrium dynamics in the bidimensional spin-ice model. <i>Europhysics Letters</i> , 2012, 97, 30002.	0.7	29
14	Synchronization in Dynamical Networks of Locally Coupled Self-Propelled Oscillators. <i>Physical Review X</i> , 2017, 7, .	2.8	27
15	From motility-induced phase-separation to glassiness in dense active matter. <i>Communications Physics</i> , 2022, 5, .	2.0	26
16	Micro-flock patterns and macro-clusters in chiral active Brownian disks. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 084001.	0.7	24
17	Unified analysis of topological defects in 2D systems of active and passive disks. <i>Soft Matter</i> , 2022, 18, 566-591.	1.2	21
18	Defects dynamics following thermal quenches in square spin ice. <i>Physical Review B</i> , 2013, 87, .	1.1	17

#	ARTICLE	IF	CITATIONS
19	Fluctuation-dissipation relations in the absence of detailed balance: formalism and applications to active matter. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 043201.	0.9	17
20	Arrested phase separation in chiral fluids of colloidal spinners. <i>Physical Review Research</i> , 2021, 3, .	1.3	17
21	Phase separation of self-propelled disks with ferromagnetic and nematic alignment. <i>Physical Review E</i> , 2021, 104, 054611.	0.8	15
22	Static properties of 2D spin-ice as a sixteen-vertex model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P02026.	0.9	13
23	Flocking-enhanced social contagion. <i>Physical Review Research</i> , 2020, 2, .	1.3	10
24	2D melting and motility induced phase separation in Active Brownian Hard Disks and Dumbbells. <i>Journal of Physics: Conference Series</i> , 2019, 1163, 012073.	0.3	7
25	Leap-frog transport of magnetically driven anisotropic colloidal rotors. <i>Journal of Chemical Physics</i> , 2019, 150, 164901.	1.2	7
26	Defect Superdiffusion and Unbinding in a 2D XY Model of Self-Driven Rotors. <i>Physical Review Letters</i> , 2021, 127, 088004.	2.9	7
27	Impact of dipole-dipole interactions on motility-induced phase separation. <i>Soft Matter</i> , 0, , .	1.2	4
28	Publisher's Note: Synchronization in Dynamical Networks of Locally Coupled Self-Propelled Oscillators [<i>Phys. Rev. X</i> 7, 011028 (2017)]. <i>Physical Review X</i> , 2017, 7, .	2.8	0