Adriano Tiribocchi

List of Publications by Year
in descending order

56	1,549	393982 19	315357 38
papers	citations	h-index	g-index

65	65	65	1195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Continuum Theory of Phase Separation Kinetics for Active Brownian Particles. Physical Review Letters, 2013, 111, 145702.	2.9	303
2	Scalar Ï†4 field theory for active-particle phase separation. Nature Communications, 2014, 5, 4351.	5.8	247
3	A minimal physical model captures the shapes of crawling cells. Nature Communications, 2015, 6, 5420.	5.8	103
4	Motility-induced phase separation and coarsening in active matter. Comptes Rendus Physique, 2015, 16, 316-331.	0.3	77
5	Active Model H: Scalar Active Matter in a Momentum-Conserving Fluid. Physical Review Letters, 2015, 115, 188302.	2.9	73
6	Hybrid lattice Boltzmann model for binary fluid mixtures. Physical Review E, 2009, 80, 026701.	0.8	66
7	Lattice Boltzmann methods and active fluids. European Physical Journal E, 2019, 42, 81.	0.7	56
8	Switching dynamics in cholesteric blue phases. Soft Matter, 2011, 7, 3295.	1.2	49
9	Spontaneous flow in polar active fluids: the effect of a phenomenological self propulsion-like term. European Physical Journal E, 2016, 39, 1.	0.7	48
10	The dynamics of colloidal intrusions in liquid crystals: a simulation perspective. Liquid Crystals Reviews, 2014, 2, 1-27.	1.1	36
11	Modeling pattern formation in soft flowing crystals. Physical Review Fluids, 2019, 4, .	1.0	30
12	Phase separation of binary fluids with dynamic temperature. Physical Review E, 2010, 82, 046302.	0.8	28
13	Bistable Defect Structures In Blue Phase Devices. Physical Review Letters, 2011, 107, 237803.	2.9	28
14	Hydrodynamic instabilities in active cholesteric liquid crystals. European Physical Journal E, 2017, 40, 50.	0.7	28
15	The vortex-driven dynamics of droplets within droplets. Nature Communications, 2021, 12, 82.	5.8	26
16	Wall accumulation of bacteria with different motility patterns. Physical Review E, 2018, 97, 022610.	0.8	22
17	Rheology of active polar emulsions: from linear to unidirectional and inviscid flow, and intermittent viscosity. Soft Matter, 2019, 15, 8251-8265.	1.2	21
18	Lamellar ordering, droplet formation and phase inversion in exotic active emulsions. Scientific Reports, 2019, 9, 2801.	1.6	20

#	Article	IF	Citations
19	Novel nonequilibrium steady states in multiple emulsions. Physics of Fluids, 2020, 32, .	1.6	20
20	Modeling drug delivery from multiple emulsions. Physical Review E, 2020, 102, 023114.	0.8	17
21	Switching and defect dynamics in multistable liquid crystal devices. Applied Physics Letters, 2010, 97, .	1.5	15
22	Spontaneous motility of passive emulsion droplets in polar active gels. Soft Matter, 2014, 10, 7826-7837.	1.2	13
23	Switching hydrodynamics in liquid crystal devices: a simulation perspective. Soft Matter, 2014, 10, 4580.	1.2	13
24	Thermal and hydrodynamic effects in the ordering of lamellar fluids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2592-2599.	1.6	12
25	Lattice Boltzmann study of chemically-driven self-propelled droplets. European Physical Journal E, 2017, 40, 112.	0.7	12
26	Soft channel formation and symmetry breaking in exotic active emulsions. Scientific Reports, 2020, 10, 15936.	1.6	11
27	Mesoscale modelling of dropletsâ€™ self-assembly in microfluidic channels. Soft Matter, 2021, 17, 2374-2383.	1.2	11
28	Wet to dry self-transitions in dense emulsions: From order to disorder and back. Physical Review Fluids, 2021, 6, .	1.0	11
29	Translocation Dynamics of High-Internal Phase Double Emulsions in Narrow Channels. Langmuir, 2021, 37, 9026-9033.	1.6	11
30	LBsoft: A parallel open-source software for simulation of colloidal systems. Computer Physics Communications, 2020, 256, 107455.	3.0	10
31	Shear dynamics of polydisperse double emulsions. Physics of Fluids, 2021, 33, .	1.6	10
32	A fast and efficient deep learning procedure for tracking droplet motion in dense microfluidic emulsions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200400.	1.6	10
33	Concentrated phase emulsion with multicore morphology under shear: A numerical study. Physical Review Fluids, 2020, 5, .	1.0	10
34	Flexoelectric switching in cholesteric blue phases. Soft Matter, 2013, 9, 4831.	1.2	9
35	Deformation and breakup dynamics of droplets within a tapered channel. Physics of Fluids, 2021, 33, .	1.6	9
36	Stochastic Jetting and Dripping in Confined Soft Granular Flows. Physical Review Letters, 2022, 128, 128001.	2.9	9

#	Article	IF	Citations
37	Pattern study of thermal phase separation for binary fluid mixtures. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 572-583.	1.6	8
38	Shear dynamics of confined bijels. AIP Advances, 2020, 10, 095304.	0.6	8
39	Tracking droplets in soft granular flows with deep learning techniques. European Physical Journal Plus, 2021, 136, 864.	1.2	8
40	Curvature dynamics and long-range effects on fluidâ€“fluid interfaces with colloids. Soft Matter, 2019, 15, 2848-2862.	1.2	7
41	Shear dynamics of an inverted nematic emulsion. Soft Matter, 2016, 12, 8195-8213.	1.2	6
42	Toward exascale design of soft mesoscale materials. Journal of Computational Science, 2020, 46, 101175.	1.5	6
43	Lattice Boltzmann simulations capture the multiscale physics of soft flowing crystals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190406.	1.6	6
44	LBcuda: A high-performance CUDA port of LBsoft for simulation of colloidal systems. Computer Physics Communications, 2022, 277, 108380.	3.0	6
45	Switching dynamics in cholesteric liquid crystal emulsions. Journal of Chemical Physics, 2017, 147, 064903.	1.2	4
46	Multiparticle collision dynamics for fluid interfaces with near-contact interactions. Journal of Chemical Physics, 2020, 152, 144101.	1.2	4
47	Capturing Free-Radical Polymerization by Synergetic Ab Initio Calculations and Topological Reactive Molecular Dynamics. Macromolecules, 2022, 55, 1474-1486.	2.2	3
48	Microvorticity fluctuations affect the structure of thin fluid films. Physical Review E, 2019, 100, 042606.	0.8	2
49	A Multiresolution Mesoscale Approach for Microscale Hydrodynamics. Advanced Theory and Simulations, 2020, 3, 1900250.	1.3	2
50	Computational droplets: Where we stand and how far we can go. Europhysics Letters, 2022, 138, 67001.	0.7	2
51	Disordered interfaces in soft fluids with suspended colloids. International Journal of Modern Physics C, 2019, 30, 1941004.	0.8	1
52	A coupled lattice Boltzmann-Multiparticle collision method for multi-resolution hydrodynamics. Journal of Computational Science, 2020, 44, 101160.	1.5	1
53	Dynamics of polydisperse multiple emulsions in microfluidic channels. Physical Review E, 2021, 104, 065112.	0.8	1
54	Rheology of an Inverted Cholesteric Droplet under Shear Flow. Fluids, 2018, 3, 47.	0.8	0

#	Article	IF	Citations
55	Acknowledgement to Reviewers of Fluids in 2018. Fluids, 2019, 4, 9.	0.8	0
56	Shearing Effects on the Phase Coarsening of Binary Mixtures Using the Active Model B. Mathematics, 2021, 9, 3008.	1.1	0