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	Capturing Free-Radical Polymerization by Synergetic Ab Initio Calculations and Topological Reactive Molecular Dynamics. Macromolecules, 2022, 55, 1474-1486.	2.2	3
2	Stochastic Jetting and Dripping in Confined Soft Granular Flows. Physical Review Letters, 2022, 128, 128001.	2.9	9
3	LBcuda: A high-performance CUDA port of LBsoft for simulation of colloidal systems. Computer Physics Communications, 2022, 277, 108380.	3.0	6
4	Computational droplets: Where we stand and how far we can go. Europhysics Letters, 2022, 138, 67001.	0.7	2
5	The vortex-driven dynamics of droplets within droplets. Nature Communications, 2021, 12, 82.	5.8	26
6	Mesoscale modelling of dropletsâ€™ self-assembly in microfluidic channels. Soft Matter, 2021, 17, 2374-2383.	1.2	11
7	Wet to dry self-transitions in dense emulsions: From order to disorder and back. Physical Review Fluids, 2021, 6, .	1.0	11
8	Shear dynamics of polydisperse double emulsions. Physics of Fluids, 2021, 33, .	1.6	10
9	Translocation Dynamics of High-Internal Phase Double Emulsions in Narrow Channels. Langmuir, 2021, 37, 9026-9033.	1.6	11
10	Tracking droplets in soft granular flows with deep learning techniques. European Physical Journal Plus, 2021, 136, 864.	1.2	8
11	Deformation and breakup dynamics of droplets within a tapered channel. Physics of Fluids, 2021, 33, .	1.6	9
12	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
13	Shearing Effects on the Phase Coarsening of Binary Mixtures Using the Active Model B. Mathematics, 2021, 9, 3008.	1.1	0
14	Dynamics of polydisperse multiple emulsions in microfluidic channels. Physical Review E, 2021, 104, 065112.	0.8	1
15	Soft channel formation and symmetry breaking in exotic active emulsions. Scientific Reports, 2020, 10, 15936.	1.6	11
16	Toward exascale design of soft mesoscale materials. Journal of Computational Science, 2020, 46, 101175.	1.5	6
17	LBsoft: A parallel open-source software for simulation of colloidal systems. Computer Physics Communications, 2020, 256, 107455.	3.0	10
18	Shear dynamics of confined bijels. AIP Advances, 2020, 10, 095304.	0.6	8

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19	Modeling drug delivery from multiple emulsions. Physical Review E, 2020, 102, 023114.	0.8	17
20	Multiparticle collision dynamics for fluid interfaces with near-contact interactions. Journal of Chemical Physics, 2020, 152, 144101.	1.2	4
21	A coupled lattice Boltzmann-Multiparticle collision method for multi-resolution hydrodynamics. Journal of Computational Science, 2020, 44, 101160.	1.5	1
22	A Multiresolution Mesoscale Approach for Microscale Hydrodynamics. Advanced Theory and Simulations, 2020, 3, 1900250.	1.3	2
23	Novel nonequilibrium steady states in multiple emulsions. Physics of Fluids, 2020, 32, .	1.6	20
24	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
25	Concentrated phase emulsion with multicore morphology under shear: A numerical study. Physical Review Fluids, 2020, 5, .	1.0	10
26	Lattice Boltzmann methods and active fluids. European Physical Journal E, 2019, 42, 81.	0.7	56
27	Microvorticity fluctuations affect the structure of thin fluid films. Physical Review E, 2019, 100, 042606.	0.8	2
28	Lamellar ordering, droplet formation and phase inversion in exotic active emulsions. Scientific Reports, 2019, 9, 2801.	1.6	20
29	Acknowledgement to Reviewers of Fluids in 2018. Fluids, 2019, 4, 9.	0.8	0
30	Curvature dynamics and long-range effects on fluidâ€“fluid interfaces with colloids. Soft Matter, 2019, 15, 2848-2862.	1.2	7
31	Rheology of active polar emulsions: from linear to unidirectional and inviscid flow, and intermittent viscosity. Soft Matter, 2019, 15, 8251-8265.	1.2	21
32	Disordered interfaces in soft fluids with suspended colloids. International Journal of Modern Physics C, 2019, 30, 1941004.	0.8	1
33	Modeling pattern formation in soft flowing crystals. Physical Review Fluids, 2019, 4, .	1.0	30
34	Wall accumulation of bacteria with different motility patterns. Physical Review E, 2018, 97, 022610.	0.8	22
35	Rheology of an Inverted Cholesteric Droplet under Shear Flow. Fluids, 2018, 3, 47.	0.8	0
36	Hydrodynamic instabilities in active cholesteric liquid crystals. European Physical Journal E, 2017, 40, 50.	0.7	28

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37	Switching dynamics in cholesteric liquid crystal emulsions. Journal of Chemical Physics, 2017, 147, 064903.	1.2	4
38	Lattice Boltzmann study of chemically-driven self-propelled droplets. European Physical Journal E, 2017, 40, 112.	0.7	12
39	Shear dynamics of an inverted nematic emulsion. Soft Matter, 2016, 12, 8195-8213.	1.2	6
40	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
41	Active Model H: Scalar Active Matter in a Momentum-Conserving Fluid. Physical Review Letters, 2015, 115, 188302.	2.9	73
42	Motility-induced phase separation and coarsening in active matter. Comptes Rendus Physique, 2015, 16, 316-331.	0.3	77
43	A minimal physical model captures the shapes of crawling cells. Nature Communications, 2015, 6, 5420.	5.8	103
44	The dynamics of colloidal intrusions in liquid crystals: a simulation perspective. Liquid Crystals Reviews, 2014, 2, 1-27.	1.1	36
45	Spontaneous motility of passive emulsion droplets in polar active gels. Soft Matter, 2014, 10, 7826-7837.	1.2	13
46	Switching hydrodynamics in liquid crystal devices: a simulation perspective. Soft Matter, 2014, 10, 4580.	1.2	13
47	Scalar Ï†4 field theory for active-particle phase separation. Nature Communications, 2014, 5, 4351.	5.8	247
48	Continuum Theory of Phase Separation Kinetics for Active Brownian Particles. Physical Review Letters, 2013, 111, 145702.	2.9	303
49	Flexoelectric switching in cholesteric blue phases. Soft Matter, 2013, 9, 4831.	1.2	9
50	Switching dynamics in cholesteric blue phases. Soft Matter, 2011, 7, 3295.	1.2	49
51	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
52	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
53	Bistable Defect Structures In Blue Phase Devices. Physical Review Letters, 2011, 107, 237803.	2.9	28
54	Switching and defect dynamics in multistable liquid crystal devices. Applied Physics Letters, 2010, 97, .	1.5	15

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55	Phase separation of binary fluids with dynamic temperature. Physical Review E, 2010, 82, 046302.	0.8	28
56	Hybrid lattice Boltzmann model for binary fluid mixtures. Physical Review E, 2009, 80, 026701.	0.8	66