Fanlong Meng

List of Publications by Year
in descending order

36 papers	928 citations	430442 18 h-index	476904 29 g-index
36 all docs	36 docs citations	36 times ranked	1213 citing authors

#	Article	IF	Citations
1	Stress Relaxation, Dynamics, and Plasticity of Transient Polymer Networks. Macromolecules, 2016, 49, 2843-2852.	2.2	151
2	Low-Voltage Continuous Electrospinning Patterning. ACS Applied Materials & Interfaces, 2016, 8, 32120-32131.	4.0	75
3	Castor oil derived poly(urethane urea) networks with reprocessibility and enhanced mechanical properties. Polymer, 2018, 143, 79-86.	1.8	65
4	Tunable self-healing of magnetically propelling colloidal carpets. Nature Communications, 2019, 10, 2444.	5.8	64
5	Elasticity and Relaxation in Full and Partial Vitrimer Networks. Macromolecules, 2019, 52, 7423-7429.	2.2	52
6	Theory of Semiflexible Filaments and Networks. Polymers, 2017, 9, 52.	2.0	45
7	Nonlinear elasticity of semiflexible filament networks. Soft Matter, 2016, 12, 6749-6756.	1.2	41
8	Focusing and Sorting of Ellipsoidal Magnetic Particles in Microchannels. Physical Review Letters, 2017, 119, 198002.	2.9	39
9	Clustering of Magnetic Swimmers in a Poiseuille Flow. Physical Review Letters, 2018, 120, 188101.	2.9	37
10	Modeling Elastically Mediated Liquid-Liquid Phase Separation. Physical Review Letters, 2020, 125, 268001.	2.9	31
11	Conditions for metachronal coordination in arrays of model cilia. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	30
12	Cavitation in Drying Droplets of Soft Matter Solutions. Physical Review Letters, 2014, 113, 098301.	2.9	26
13	Transient Network at Large Deformations: Elasticâ€“Plastic Transition and Necking Instability. Polymers, 2016, 8, 108.	2.0	24
14	Nanoparticle amount, and not size, determines chain alignment and nonlinear hardening in polymer nanocomposites. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3170-E3177.	3.3	24
15	Molecular Dynamics Simulation of the Structural, Mechanical, and Reprocessing Properties of Vitrimers Based on a Dynamic Covalent Polymer Network. Macromolecules, 2022, 55, 1091-1103.	2.2	24
16	Controlling collective rotational patterns of magnetic rotors. Nature Communications, 2019, 10, 4696.	5.8	23
17	Bioâ€assembling Macroâ€Scale, Lumenized Airway Tubes of Defined Shape via Multiâ€Organoid Patterning and Fusion. Advanced Science, 2021, 8, 2003332.	5.6	22
18	Magnetically-actuated artificial cilium: a simple theoretical model. Soft Matter, 2019, 15, 3864-3871.	1.2	21

#	Article	IF	Citations
19	Scaling Regimes of Active Turbulence with External Dissipation. Physical Review X, 2021, 11, .	2.8	18
20	Oneâ€Step Generation of Coreâ€“Gapâ€“Shell Microcapsules for Stimuliâ€Responsive Biomolecular Sensing. Advanced Functional Materials, 2020, 30, 2006019.	7.8	17
21	Solute based Lagrangian scheme in modeling the drying process of soft matter solutions. European Physical Journal E, 2016, 39, 22.	0.7	12
22	Fluidization of Transient Filament Networks. Macromolecules, 2018, 51, 4660-4669.	2.2	12
23	Phase diagrams and interface in inflating balloon. AICHE Journal, 2014, 60, 1393-1399.	1.8	11
24	Far-field theory for trajectories of magnetic ellipsoids in rectangular and circular channels. IMA Journal of Applied Mathematics, 2018, 83, 767-782.	0.8	10
25	Magnetic Microswimmers Exhibit Bose-Einstein-like Condensation. Physical Review Letters, 2021, 126, 078001.	2.9	8
26	Field-controlling patterns of sheared ferrofluid droplets. Physics of Fluids, 2022, 34, .	1.6	8
27	Modelling Mullins effect induced by chain delamination and reattachment. Polymer, 2021, 222, 123608.	1.8	7
28	Field synchronized bidirectional current in confined driven colloids. Physical Review Research, 2020, 2, .	1.3	7
29	Degenerate states, emergent dynamics and fluid mixing by magnetic rotors. Soft Matter, 2020, 16, 6484-6492.	1.2	6
30	Skin formation in drying a film of soft matter solutions: Application of solute based Lagrangian scheme. Chinese Physics B, 2016, 25, 076801.	0.7	5
31	The phase diagram and radial collapse of an inflated soft tube under twist. Soft Matter, 2015, 11, 7046-7052.	1.2	4
32	Bridging chains mediate nonlinear mechanics of polymer nanocomposites under cyclic deformation. Polymer, 2020, 200, 122529.	1.8	3
33	Elastically-mediated collective organisation of magnetic microparticles. Soft Matter, 0, , .	1.2	3
34	A theoretical study on entropy-driven polymer translocation through a finite-sized nanochannel. Chemical Physics Letters, 2013, 565, 116-121.	1.2	1
35	The â€˜Coin-Through-the-Rubberâ€™ Trick: An Elastically Stabilized Invagination. Journal of Elasticity, 2016, 123, 43-57.	0.9	1
36	Modelling Drying Pathways of an Evaporating Soft Matter Droplet. Communications in Theoretical Physics, 0, , .	1.1	1