Fanlong Meng

List of Publications by Year
in descending order

36 papers	928 citations	430874 18 h-index	477307 29 g-index
36 all docs	36 docs citations	36 times ranked	1213 citing authors

#	Article	IF	Citations
1	Molecular Dynamics Simulation of the Structural, Mechanical, and Reprocessing Properties of Vitrimers Based on a Dynamic Covalent Polymer Network. Macromolecules, 2022, 55, 1091-1103.	4.8	24
2	Field-controlling patterns of sheared ferrofluid droplets. Physics of Fluids, 2022, 34, .	4.0	8
3	Bioâ€assembling Macroâ€Scale, Lumenized Airway Tubes of Defined Shape via Multiâ€Organoid Patterning and Fusion. Advanced Science, 2021, 8, 2003332.	11.2	22
4	Magnetic Microswimmers Exhibit Bose-Einstein-like Condensation. Physical Review Letters, 2021, 126, 078001.	7.8	8
5	Modelling Mullins effect induced by chain delamination and reattachment. Polymer, 2021, 222, 123608.	3.8	7
6	Conditions for metachronal coordination in arrays of model cilia. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	30
7	Scaling Regimes of Active Turbulence with External Dissipation. Physical Review X, 2021, 11, .	8.9	18
8	Oneâ€Step Generation of Coreâ€"Gapâ€"Shell Microcapsules for Stimuliâ€Responsive Biomolecular Sensing. Advanced Functional Materials, 2020, 30, 2006019.	14.9	17
9	Degenerate states, emergent dynamics and fluid mixing by magnetic rotors. Soft Matter, 2020, 16, 6484-6492.	2.7	6
10	Bridging chains mediate nonlinear mechanics of polymer nanocomposites under cyclic deformation. Polymer, 2020, 200, 122529.	3.8	3
11	Modeling Elastically Mediated Liquid-Liquid Phase Separation. Physical Review Letters, 2020, 125, 268001.	7.8	31
12	Field synchronized bidirectional current in confined driven colloids. Physical Review Research, 2020, 2, .	3.6	7
13	Controlling collective rotational patterns of magnetic rotors. Nature Communications, 2019, 10, 4696.	12.8	23
14	Elasticity and Relaxation in Full and Partial Vitrimer Networks. Macromolecules, 2019, 52, 7423-7429.	4.8	52
15	Tunable self-healing of magnetically propelling colloidal carpets. Nature Communications, 2019, 10, 2444.	12.8	64
16	Magnetically-actuated artificial cilium: a simple theoretical model. Soft Matter, 2019, 15, 3864-3871.	2.7	21
17	Castor oil derived poly(urethane urea) networks with reprocessibility and enhanced mechanical properties. Polymer, 2018, 143, 79-86.	3.8	65
18	Clustering of Magnetic Swimmers in a Poiseuille Flow. Physical Review Letters, 2018, 120, 188101.	7.8	37

#	Article	IF	Citations
19	Far-field theory for trajectories of magnetic ellipsoids in rectangular and circular channels. IMA Journal of Applied Mathematics, 2018, 83, 767-782.	1.6	10
20	Fluidization of Transient Filament Networks. Macromolecules, 2018, 51, 4660-4669.	4.8	12
21	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.	7.1	24
22	Focusing and Sorting of Ellipsoidal Magnetic Particles in Microchannels. Physical Review Letters, 2017, 119, 198002.	7.8	39
23	Theory of Semiflexible Filaments and Networks. Polymers, 2017, 9, 52.	4.5	45
24	Transient Network at Large Deformations: Elasticâ€"Plastic Transition and Necking Instability. Polymers, 2016, 8, 108.	4.5	24
25	Nonlinear elasticity of semiflexible filament networks. Soft Matter, 2016, 12, 6749-6756.	2.7	41
26	Skin formation in drying a film of soft matter solutions: Application of solute based Lagrangian scheme. Chinese Physics B, 2016, 25, 076801.	1.4	5
27	Low-Voltage Continuous Electrospinning Patterning. ACS Applied Materials & Interfaces, 2016, 8, 32120-32131.	8.0	75
28	Stress Relaxation, Dynamics, and Plasticity of Transient Polymer Networks. Macromolecules, 2016, 49, 2843-2852.	4.8	151
29	The â€˜Coin-Through-the-Rubberâ€™ Trick: An Elastically Stabilized Invagination. Journal of Elasticity, 2016, 123, 43-57.	1.9	1
30	Solute based Lagrangian scheme in modeling the drying process of soft matter solutions. European Physical Journal E, 2016, 39, 22.	1.6	12
31	The phase diagram and radial collapse of an inflated soft tube under twist. Soft Matter, 2015, 11, 7046-7052.	2.7	4
32	Phase diagrams and interface in inflating balloon. AICHE Journal, 2014, 60, 1393-1399.	3.6	11
33	Cavitation in Drying Droplets of Soft Matter Solutions. Physical Review Letters, 2014, 113, 098301.	7.8	26
34	A theoretical study on entropy-driven polymer translocation through a finite-sized nanochannel. Chemical Physics Letters, 2013, 565, 116-121.	2.6	1
35	Modelling Drying Pathways of an Evaporating Soft Matter Droplet. Communications in Theoretical Physics, 0, , .	2.5	1
36	Elastically-mediated collective organisation of magnetic microparticles. Soft Matter, 0, , .	2.7	3