

Zhiqiang Shen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

528
citations

13
h-index

22
g-index

34
ext. papers

691
ext. citations

4.7
avg, IF

4.55
L-index

#	Paper	IF	Citations
33	Adhesive rolling of nanoparticles in a lateral flow inspired from diagnostics of COVID-19. <i>Extreme Mechanics Letters</i> , 2021 , 44, 101239	3.9	
32	Sticky Rouse Time Features the Self-Adhesion of Supramolecular Polymer Networks. <i>Macromolecules</i> , 2021 , 54, 5053-5064	5.5	2
31	Super Stretchable and Compressible Hydrogels Inspired by Hook-and-Loop Fasteners. <i>Langmuir</i> , 2021 , 37, 7760-7770	4	4
30	Red blood cell hitchhiking enhances the accumulation of nano- and micro-particles in the constriction of a stenosed microvessel. <i>Soft Matter</i> , 2021 , 17, 40-56	3.6	4
29	Spatiotemporal mapping of mesoscopic liquid dynamics. <i>Physical Review E</i> , 2021 , 103, 022609	2.4	2
28	Spatial correlations of entangled polymer dynamics. <i>Physical Review E</i> , 2021 , 104, 024503	2.4	0
27	Cholesterol-like Condensing Effect of Perfluoroalkyl Substances on a Phospholipid Bilayer. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 5415-5425	3.4	4
26	OpenFSI: A highly efficient and portable fluid-structure simulation package based on immersed-boundary method. <i>Computer Physics Communications</i> , 2020 , 256, 107463	4.2	4
25	Machine-Learning-Assisted De Novo Design of Organic Molecules and Polymers: Opportunities and Challenges. <i>Polymers</i> , 2020 , 12,	4.5	51
24	Membrane poration, wrinkling, and compression: deformations of lipid vesicles induced by amphiphilic Janus nanoparticles. <i>Nanoscale</i> , 2020 , 12, 20326-20336	7.7	4
23	A machine-learning-assisted study of the permeability of small drug-like molecules across lipid membranes. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19687-19696	3.6	7
22	pH-Dependent aggregation and pH-independent cell membrane adhesion of monolayer-protected mixed charged gold nanoparticles. <i>Nanoscale</i> , 2019 , 11, 7371-7385	7.7	14
21	Shape-Dependent Transport of Microparticles in Blood Flow: From Margination to Adhesion. <i>Journal of Engineering Mechanics - ASCE</i> , 2019 , 145, 04019021	2.4	2
20	Interplay between ligand mobility and nanoparticle geometry during cellular uptake of PEGylated liposomes and bicelles. <i>Nanoscale</i> , 2019 , 11, 15971-15983	7.7	4
19	Polymer stiffness governs template mediated self-assembly of liposome-like nanoparticles: simulation, theory and experiment. <i>Nanoscale</i> , 2019 , 11, 20179-20193	7.7	5
18	20. Multiscale modeling of lipid membrane 2019 , 569-602		
17	Membrane Wrapping Efficiency of Elastic Nanoparticles during Endocytosis: Size and Shape Matter. <i>ACS Nano</i> , 2019 , 13, 215-228	16.7	73

16	Interplay of deformability and adhesion on localization of elastic micro-particles in blood flow. <i>Journal of Fluid Mechanics</i> , 2019 , 861, 55-87	3.7	15
15	Understanding receptor-mediated endocytosis of elastic nanoparticles through coarse grained molecular dynamic simulation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16372-16385	3.6	29
14	Aggregation of polyethylene glycol polymers suppresses receptor-mediated endocytosis of PEGylated liposomes. <i>Nanoscale</i> , 2018 , 10, 4545-4560	7.7	46
13	Size of graphene sheets determines the structural and mechanical properties of 3D graphene foams. <i>Nanotechnology</i> , 2018 , 29, 104001	3.4	19
12	Manipulating nanoparticle transport within blood flow through external forces: an exemplar of mechanics in nanomedicine. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20170845	2.4	44
11	Cell Stiffness Governs Its Adhesion Dynamics on Substrate Under Shear Flow. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 407-411	2.6	11
10	PEGylated Health Nanoparticles and liposomes 2018 , 1-26		10
9	What causes the anomalous aggregation in pluronic aqueous solutions?. <i>Soft Matter</i> , 2018 , 14, 7653-7663	3.6	7
8	Shear rate dependent margination of sphere-like, oblate-like and prolate-like micro-particles within blood flow. <i>Soft Matter</i> , 2018 , 14, 7401-7419	3.6	3
7	Anomalous Vascular Dynamics of Nanoworms within Blood Flow. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 66-77	5.5	14
6	Computational modeling of magnetic particle margination within blood flow through LAMMPS. <i>Computational Mechanics</i> , 2018 , 62, 457-476	4	25
5	Self-assembled core-polyethylene glycol-lipid shell nanoparticles demonstrate high stability in shear flow. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13294-13306	3.6	19
4	Effects of Membrane Defects and Polymer Hydrophobicity on Networking Kinetics of Vesicles. <i>Langmuir</i> , 2017 , 33, 5745-5751	4	6
3	Carbon Nanotube Length Governs the Viscoelasticity and Permeability of Buckypaper. <i>Polymers</i> , 2017 , 9,	4.5	13
2	Decorating Nanoparticle Surface for Targeted Drug Delivery: Opportunities and Challenges. <i>Polymers</i> , 2016 , 8,	4.5	62
1	Self-assembly of core-polyethylene glycol-lipid shell (CPLS) nanoparticles and their potential as drug delivery vehicles. <i>Nanoscale</i> , 2016 , 8, 14821-35	7.7	25