Yeng-Long Chen

List of Publications by Year
in descending order

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Version: 2024-02-01

58	2,212	218381	223531
papers	citations	26 h-index	46 g-index

59	59	59	2407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rheo-chemistry of gelation in aiyu (fig) jelly. Food Hydrocolloids, 2022, 123, 107001.	5.6	7
2	Rich phase transitions in strongly confined polymerâ€“nanoparticle mixtures: Nematic ordering, crystallization, and liquidâ€“liquid phase separation. Journal of Chemical Physics, 2021, 154, 024901.	1.2	5
3	Effects of Gas Adsorption and Surface Conditions on Interfacial Nanobubbles. Langmuir, 2021, 37, 2759-2770.	1.6	14
4	Nanochannel-Confined TAMRA-Polypyrrole Stained DNA Stretching by Varying the Ionic Strength from Micromolar to Millimolar Concentrations. Polymers, 2019, 11, 15.	2.0	16
5	Shear-induced non-monotonic viscosity dependence for model red blood cell suspensions in microvessels. Biomicrofluidics, 2019, 13, 064115.	1.2	3
6	Electrofluidic Circuit-Based Microfluidic Viscometer for Analysis of Newtonian and Non-Newtonian Liquids under Different Temperatures. Analytical Chemistry, 2018, 90, 2317-2325.	3.2	24
7	Investigating Interfacial Effects on Surface Nanobubbles without Pinning Using Molecular Dynamics Simulation. Langmuir, 2018, 34, 15360-15369.	1.6	23
8	STAT3-coordinated migration facilitates the dissemination of diffuse large B-cell lymphomas. Nature Communications, 2018, 9, 3696.	5.8	43
9	Emerging Roles of Air Gases in Lipid Bilayers. Small, 2018, 14, e1802133.	5.2	7
10	Investigation of nematic to smectic phase transition and dynamical properties of strongly confined semiflexible polymers using Langevin dynamics. Soft Matter, 2018, 14, 7382-7389.	1.2	2
11	Significantly increased low shear rate viscosity, blood elastic modulus, and RBC aggregation in adults following cardiac surgery. Scientific Reports, 2018, 8, 7173.	1.6	18
12	Crowding-facilitated macromolecular transport in attractive micropost arrays. Scientific Reports, 2017, 7, 1340.	1.6	7
13	Confinement, curvature, and attractive interaction effects on polymer surface adsorption. Journal of Chemical Physics, 2017, 147, 064901.	1.2	4
14	Modeling shear-induced particle ordering and deformation in a dense soft particle suspension. Journal of Physics Condensed Matter, 2017, 29, 435101.	0.7	4
15	Clusters of circulating tumor cells traverse capillary-sized vessels. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4947-4952.	3.3	364
16	Abnormal polymer transport in crowded attractive micropost arrays. Soft Matter, 2016, 12, 7969-7976.	1.2	10
17	Shifting the Isotropicâ€“Nematic Transition in Very Strongly Confined Semiflexible Polymer Solutions. Macromolecules, 2016, 49, 6139-6147.	2.2	19
18	Mesoscale simulations of two model systems in biophysics: from red blood cells to DNAs. Computational Particle Mechanics, 2015, 2, 339-357.	1.5	4

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19	Entropic attraction: Polymer compaction and expansion induced by nano-particles in confinement. Journal of Chemical Physics, 2015, 142, 174904.	1.2	5
20	Simultaneous determination of the elastic modulus and density/thickness of ultrathin films utilizing micro-/nanoresonators under applied axial force. Journal of Applied Physics, 2014, 115, .	1.1	19
21	Preface to Special Topic: Selected Papers from the Advances in Microfluidics and Nanofluidics 2014 Conference in Honor of Professor Hsueh-Chia Chang's 60th Birthday. Biomicrofluidics, 2014, 8, 051901.	1.2	0
22	Conformation-dependent translocation of a star polymer through a nanochannel. Biomicrofluidics, 2014, 8, 054107.	1.2	10
23	Dynamics and Conformation of Semiflexible Polymers in Strong Quasi-1D and -2D Confinement. Macromolecules, 2014, 47, 1199-1205.	2.2	38
24	Inertia- and deformation-driven migration of a soft particle in confined shear and Poiseuille flow. RSC Advances, 2014, 4, 17908-17916.	1.7	32
25	Nanoslit Confined DNA at Low Ionic Strengths. ACS Macro Letters, 2014, 3, 926-930.	2.3	18
26	Electro-entropic excluded volume effects on DNA looping and relaxation in nanochannels. Biomicrofluidics, 2013, 7, 054119.	1.2	29
27	Mass detection by means of the vibrating nanomechanical resonators. Applied Physics Letters, 2012, 100, .	1.5	48
28	Effects of Topology and Ionic Strength on Double-Stranded DNA Confined in Nanoslits. Macromolecules, 2012, 45, 2920-2927.	2.2	37
29	Entropy-Driven Single Molecule Tug-of-War of DNA at Microâ˜Nanofluidic Interfaces. Nano Letters, 2012, 12, 1597-1602.	4.5	60
30	Role of dissolved salts in thermophoresis of DNA: Lattice-Boltzmann-based simulations. Physical Review E, 2011, 83, 031915.	0.8	10
31	Partial hydrodynamic screening of confined linear and circular double-stranded DNA dynamics. Physical Review E, 2011, 84, 031917.	0.8	26
32	Conformation and diffusion behavior of ring polymers in solution: A comparison between molecular dynamics, multiparticle collision dynamics, and lattice Boltzmann simulations. Journal of Chemical Physics, 2011, 135, 184901.	1.2	34
33	Migration and fractionation of deformable particles in microchannel. Journal of Chemical Physics, 2010, 133, 034906.	1.2	25
34	Generalized Forceâ˜Extension Relation for Wormlike Chains in Slit Confinement. Macromolecules, 2010, 43, 10204-10207.	2.2	25
35	One-Dimensional Dynamics and Transport of DNA Molecules in a Quasi-Two-Dimensional Nanoslit. Macromolecules, 2009, 42, 1770-1774.	2.2	32
36	Collective Diffusion in Colloidâ˜Polymer Suspensions: Relative Role of Thermodynamics and Hydrodynamics. Langmuir, 2009, 25, 10507-10514.	1.6	6

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37	Elongation and migration of single DNA molecules in microchannels using oscillatory shear flows. Lab on A Chip, 2009, 9, 2348.	3.1	74
38	Depletion-induced surface alignment of asymmetric diblock copolymer in selective solvents. Journal of Chemical Physics, 2008, 129, 044907.	1.2	8
39	Conformation and trapping rate of DNA at a convergent stagnation point. Physical Review E, 2008, 77, 030801.	0.8	9
40	Thermal diffusion by Brownian-motion-induced fluid stress. Physical Review E, 2007, 76, 021912.	0.8	10
41	Static conformation and dynamics of single DNA molecules confined in nanoslits. Physical Review E, 2007, 76, 011806.	0.8	64
42	Modeling DNA in Confinement:â€‰ A Comparison between the Brownian Dynamics and Lattice Boltzmann Method. Macromolecules, 2007, 40, 5978-5984.	2.2	36
43	Surface-Induced Phase Transition of Asymmetric Diblock Copolymer in Selective Solvents. Journal of Physical Chemistry B, 2006, 110, 22726-22731.	1.2	11
44	Potential of mean force between two nanometer-scale particles in a polymer solution. Journal of Chemical Physics, 2005, 123, 034901.	1.2	51
45	Barrier hopping, viscous flow, and kinetic gelation in particle-polymer suspensions. Physical Review E, 2005, 71, 041405.	0.8	39
46	DNA Molecules in Microfluidic Oscillatory Flow. Macromolecules, 2005, 38, 6680-6687.	2.2	59
47	Elasticity and clustering in concentrated depletion gels. Physical Review E, 2004, 70, 040401.	0.8	68
48	Conformation and dynamics of single DNA molecules in parallel-plate slit microchannels. Physical Review E, 2004, 70, 060901.	0.8	139
49	Polymerâ€“particle mixtures: Depletion and packing effects. Journal of Chemical Physics, 2004, 120, 9335-9342.	1.2	79
50	Liquid-State Theory of Structure, Thermodynamics, and Phase Separation in Suspensions of Rod Polymers and Hard Spheres. Journal of Physical Chemistry B, 2004, 108, 6687-6696.	1.2	20
51	Microscopic theory of gelation and elasticity in polymerâ€“particle suspensions. Journal of Chemical Physics, 2004, 120, 7212-7222.	1.2	112
52	Scattering Studies of the Structure of Colloidâ˜Polymer Suspensions and Gels. Langmuir, 2003, 19, 5128-5136.	1.6	39
53	Microstructure of dense colloidâ€“polymer suspensions and gels. Journal of Physics Condensed Matter, 2003, 15, 4751-4778.	0.7	77
54	Phase separation in suspensions of colloids, polymers and nanoparticles: Role of solvent quality, physical mesh, and nonlocal entropic repulsion. Journal of Chemical Physics, 2003, 118, 3880-3890.	1.2	38

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55	Phase behavior and concentration fluctuations in suspensions of hard spheres and nearly ideal polymers. Journal of Chemical Physics, 2003, 118, 3350-3361.	1.2	70
56	Viscoelasticity and rheology of depletion flocculated gels and fluids. Journal of Chemical Physics, 2003, 119, 8747-8760.	1.2	114
57	Collective Structure and Dynamics in Dense Colloidâ^'Rod Polymer Suspensions. Langmuir, 2002, 18, 7354-7363.	1.6	12
58	Depletion interactions in suspensions of spheres and rodâ€“polymers. Journal of Chemical Physics, 2002, 117, 1351-1362.	1.2	48