

Yeng-Long Chen

List of Publications by Year in descending order

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58
papers

2,212
citations

218381

26
h-index

223531

46
g-index

59
all docs

59
docs citations

59
times ranked

2407
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Conformation and dynamics of single DNA molecules in parallel-plate slit microchannels. Physical Review E, 2004, 70, 060901.	0.8	139
3	Viscoelasticity and rheology of depletion flocculated gels and fluids. Journal of Chemical Physics, 2003, 119, 8747-8760.	1.2	114
4	Microscopic theory of gelation and elasticity in polymer-particle suspensions. Journal of Chemical Physics, 2004, 120, 7212-7222.	1.2	112
5	Polymer-particle mixtures: Depletion and packing effects. Journal of Chemical Physics, 2004, 120, 9335-9342.	1.2	79
6	Microstructure of dense colloid-polymer suspensions and gels. Journal of Physics Condensed Matter, 2003, 15, 4751-4778.	0.7	77
7	Elongation and migration of single DNA molecules in microchannels using oscillatory shear flows. Lab on A Chip, 2009, 9, 2348.	3.1	74
8	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
9	Elasticity and clustering in concentrated depletion gels. Physical Review E, 2004, 70, 040401.	0.8	68
10	Static conformation and dynamics of single DNA molecules confined in nanoslits. Physical Review E, 2007, 76, 011806.	0.8	64
11	Entropy-Driven Single Molecule Tug-of-War of DNA at Micro-Nanofluidic Interfaces. Nano Letters, 2012, 12, 1597-1602.	4.5	60
12	DNA Molecules in Microfluidic Oscillatory Flow. Macromolecules, 2005, 38, 6680-6687.	2.2	59
13	Potential of mean force between two nanometer-scale particles in a polymer solution. Journal of Chemical Physics, 2005, 123, 034901.	1.2	51
14	Depletion interactions in suspensions of spheres and rod-polymers. Journal of Chemical Physics, 2002, 117, 1351-1362.	1.2	48
15	Mass detection by means of the vibrating nanomechanical resonators. Applied Physics Letters, 2012, 100, .	1.5	48
16	STAT3-coordinated migration facilitates the dissemination of diffuse large B-cell lymphomas. Nature Communications, 2018, 9, 3696.	5.8	43
17	Scattering Studies of the Structure of Colloid-Polymer Suspensions and Gels. Langmuir, 2003, 19, 5128-5136.	1.6	39
18	Barrier hopping, viscous flow, and kinetic gelation in particle-polymer suspensions. Physical Review E, 2005, 71, 041405.	0.8	39

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19	Phase separation in suspensions of colloids, polymers and nanoparticles: Role of solvent quality, physical mesh, and nonlocal entropic repulsion. <i>Journal of Chemical Physics</i> , 2003, 118, 3880-3890.	1.2	38
20	Dynamics and Conformation of Semiflexible Polymers in Strong Quasi-1D and -2D Confinement. <i>Macromolecules</i> , 2014, 47, 1199-1205.	2.2	38
21	Effects of Topology and Ionic Strength on Double-Stranded DNA Confined in Nanoslits. <i>Macromolecules</i> , 2012, 45, 2920-2927.	2.2	37
22	Modeling DNA in Confinement: A Comparison between the Brownian Dynamics and Lattice Boltzmann Method. <i>Macromolecules</i> , 2007, 40, 5978-5984.	2.2	36
23	Conformation and diffusion behavior of ring polymers in solution: A comparison between molecular dynamics, multiparticle collision dynamics, and lattice Boltzmann simulations. <i>Journal of Chemical Physics</i> , 2011, 135, 184901.	1.2	34
24	One-Dimensional Dynamics and Transport of DNA Molecules in a Quasi-Two-Dimensional Nanoslit. <i>Macromolecules</i> , 2009, 42, 1770-1774.	2.2	32
25	Inertia- and deformation-driven migration of a soft particle in confined shear and Poiseuille flow. <i>RSC Advances</i> , 2014, 4, 17908-17916.	1.7	32
26	Electro-entropic excluded volume effects on DNA looping and relaxation in nanochannels. <i>Biomicrofluidics</i> , 2013, 7, 054119.	1.2	29
27	Partial hydrodynamic screening of confined linear and circular double-stranded DNA dynamics. <i>Physical Review E</i> , 2011, 84, 031917.	0.8	26
28	Migration and fractionation of deformable particles in microchannel. <i>Journal of Chemical Physics</i> , 2010, 133, 034906.	1.2	25
29	Generalized Force-Extension Relation for Wormlike Chains in Slit Confinement. <i>Macromolecules</i> , 2010, 43, 10204-10207.	2.2	25
30	Electrofluidic Circuit-Based Microfluidic Viscometer for Analysis of Newtonian and Non-Newtonian Liquids under Different Temperatures. <i>Analytical Chemistry</i> , 2018, 90, 2317-2325.	3.2	24
31	Investigating Interfacial Effects on Surface Nanobubbles without Pinning Using Molecular Dynamics Simulation. <i>Langmuir</i> , 2018, 34, 15360-15369.	1.6	23
32	Liquid-State Theory of Structure, Thermodynamics, and Phase Separation in Suspensions of Rod Polymers and Hard Spheres. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6687-6696.	1.2	20
33	Simultaneous determination of the elastic modulus and density/thickness of ultrathin films utilizing micro-/nanoresonators under applied axial force. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	19
34	Shifting the Isotropic-Nematic Transition in Very Strongly Confined Semiflexible Polymer Solutions. <i>Macromolecules</i> , 2016, 49, 6139-6147.	2.2	19
35	Nanoslit Confined DNA at Low Ionic Strengths. <i>ACS Macro Letters</i> , 2014, 3, 926-930.	2.3	18
36	Significantly increased low shear rate viscosity, blood elastic modulus, and RBC aggregation in adults following cardiac surgery. <i>Scientific Reports</i> , 2018, 8, 7173.	1.6	18

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37	Nanochannel-Confined TAMRA-Polypyrrole Stained DNA Stretching by Varying the Ionic Strength from Micromolar to Millimolar Concentrations. <i>Polymers</i> , 2019, 11, 15.	2.0	16
38	Effects of Gas Adsorption and Surface Conditions on Interfacial Nanobubbles. <i>Langmuir</i> , 2021, 37, 2759-2770.	1.6	14
39	Collective Structure and Dynamics in Dense Colloid-Rod Polymer Suspensions. <i>Langmuir</i> , 2002, 18, 7354-7363.	1.6	12
40	Surface-Induced Phase Transition of Asymmetric Diblock Copolymer in Selective Solvents. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22726-22731.	1.2	11
41	Thermal diffusion by Brownian-motion-induced fluid stress. <i>Physical Review E</i> , 2007, 76, 021912.	0.8	10
42	Role of dissolved salts in thermophoresis of DNA: Lattice-Boltzmann-based simulations. <i>Physical Review E</i> , 2011, 83, 031915.	0.8	10
43	Conformation-dependent translocation of a star polymer through a nanochannel. <i>Biomicrofluidics</i> , 2014, 8, 054107.	1.2	10
44	Abnormal polymer transport in crowded attractive micropost arrays. <i>Soft Matter</i> , 2016, 12, 7969-7976.	1.2	10
45	Conformation and trapping rate of DNA at a convergent stagnation point. <i>Physical Review E</i> , 2008, 77, 030801.	0.8	9
46	Depletion-induced surface alignment of asymmetric diblock copolymer in selective solvents. <i>Journal of Chemical Physics</i> , 2008, 129, 044907.	1.2	8
47	Crowding-facilitated macromolecular transport in attractive micropost arrays. <i>Scientific Reports</i> , 2017, 7, 1340.	1.6	7
48	Emerging Roles of Air Gases in Lipid Bilayers. <i>Small</i> , 2018, 14, e1802133.	5.2	7
49	Rheo-chemistry of gelation in aiyu (fig) jelly. <i>Food Hydrocolloids</i> , 2022, 123, 107001.	5.6	7
50	Collective Diffusion in Colloid-Polymer Suspensions: Relative Role of Thermodynamics and Hydrodynamics. <i>Langmuir</i> , 2009, 25, 10507-10514.	1.6	6
51	Entropic attraction: Polymer compaction and expansion induced by nano-particles in confinement. <i>Journal of Chemical Physics</i> , 2015, 142, 174904.	1.2	5
52	Rich phase transitions in strongly confined polymer-nanoparticle mixtures: Nematic ordering, crystallization, and liquid-liquid phase separation. <i>Journal of Chemical Physics</i> , 2021, 154, 024901.	1.2	5
53	Mesoscale simulations of two model systems in biophysics: from red blood cells to DNAs. <i>Computational Particle Mechanics</i> , 2015, 2, 339-357.	1.5	4
54	Confinement, curvature, and attractive interaction effects on polymer surface adsorption. <i>Journal of Chemical Physics</i> , 2017, 147, 064901.	1.2	4

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55	Modeling shear-induced particle ordering and deformation in a dense soft particle suspension. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 435101.	0.7	4
56	Shear-induced non-monotonic viscosity dependence for model red blood cell suspensions in microvessels. <i>Biomicrofluidics</i> , 2019, 13, 064115.	1.2	3
57	Investigation of nematic to smectic phase transition and dynamical properties of strongly confined semiflexible polymers using Langevin dynamics. <i>Soft Matter</i> , 2018, 14, 7382-7389.	1.2	2
58	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. <i>Biomicrofluidics</i> , 2014, 8, 051901.	1.2	0