Yu-Jane Sheng

List of Publications by Year in Descending Order

206 papers	3,982 citations	33 h-index	51 g-index
209 ext. papers	4,364 ext. citations	4.5 avg, IF	5.67 L-index

#	Paper	IF	Citations
206	Anomalous spontaneous capillary flow of water through graphene nanoslits: channel width-dependent density. *Journal of Molecular Liquids*, **2022**, 118701	6	2
205	Peculiar encounter between self-propelled droplet and static droplet: swallow, rerouting, and recoil. *Journal of Molecular Liquids*, **2022**, 347, 118378	6	0
204	Anomalous interfacial dynamics of pendant droplets of N,N-dimethylformamide containing Silwet. *Journal of the Taiwan Institute of Chemical Engineers*, **2022**, 133, 104282	5.3	1
203	Abnormal wetting dynamics of Silwet-laden droplets on partially wetting substrates. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 129381	5.1	
202	Spontaneous formation of nanopores within a nanofilm: phase diagram and multiple stable states. *Journal of Molecular Liquids*, **2022**, 119541	6	
201	Imbibition dynamics in an open-channel capillary with holes. *Journal of Molecular Liquids*, **2021**, 349, 118617	6	2
200	Floating and Diving Loops of ABA Triblock Copolymers in Lipid Bilayers and Stability Enhancement for Asymmetric Membranes. *Biomacromolecules*, **2021**, 22, 494-503	6.9	1
199	Directed self-propulsion of droplets on surfaces absent of gradients for cargo transport. *Journal of Colloid and Interface Science*, **2021**, 586, 469-478	9.3	4
198	Interfacial assembly of nanorods: smectic alignment and multilayer stacking. *Nanoscale*, **2021**, 13, 14236-14244	7.4	2
197	Preferred penetration of active nano-rods into narrow channels and their clustering. *Physical Chemistry Chemical Physics*, **2021**, 23, 16234-16241	3.6	1
196	Strengthening mechanism of the mechanical properties of graft copolymers with incompatible pendant groups: nano-clusters and weak cross-linking. *Soft Matter*, **2021**, 17, 5730-5737	3.6	1
195	Spontaneous spreading of nanodroplets on partially wetting surfaces with continuous grooves: Synergy of imbibition and capillary condensation. *Journal of Molecular Liquids*, **2021**, 339, 117270	6	2
194	Amphibious superamphiphilic polystyrene monolith with underwater superoleophilicity: Capture of underwater oil. *Applied Surface Science*, **2021**, 570, 151142	6.7	0
193	Thermally assisted mobility of nanodroplets on surfaces with weak defects. *Journal of Colloid and Interface Science*, **2021**, 604, 150-156	9.3	1
192	Non-affinity adsorption of nanorods onto smooth walls an entropy driven mechanism. *Soft Matter*, **2021**, 17, 5756-5762	3.6	1
191	UV-Resistant Self-Healing Emulsion Glass as a New Liquid-like Solid Material for 3D Printing. *ACS Applied Materials & Interfaces*, **2020**, 12, 24450-24457	9.5	6
190	Size-dependent behavior and failure of youngs equation for wetting of two-component nanodroplets. *Journal of Colloid and Interface Science*, **2020**, 578, 69-76	9.3	13

189	Partition of nanoswimmers between two immiscible phases: a soft and penetrable boundary. *Soft Matter*, **2020**, 16, 5054-5061	3.6	
188	Scanty-water oil-in-water emulsion glasses synthesized through a low-energy process: Nucleation and growth mechanism. *Journal of the Taiwan Institute of Chemical Engineers*, **2020**, 109, 129-136	5.3	1
187	Formation of Asymmetric and Symmetric Hybrid Membranes of Lipids and Triblock Copolymers. *Polymers*, **2020**, 12,	4.5	8
186	Morphology and Wetting Stability of Nanofilms of ABC Miktoarm Star Terpolymers. *Macromolecules*, **2020**, 53, 594-601	5.5	7
185	Facilely-fabricated smart hydroxyl-surfaces with rapidly switchable wettability for water and oil: Reversibility between superoleophilicity and near superoleophobicity. *Journal of the Taiwan Institute of Chemical Engineers*, **2020**, 107, 182-188	5.3	3
184	Perforated Vesicles of ABA Triblock Copolymers with ON/OFF-Switchable Nanopores. *Macromolecules*, **2020**, 53, 10582-10590	5.5	3
183	Coexistence of liquid-like emulsion and solid-like emulsion glass beyond the close-packing limit. *Journal of the Taiwan Institute of Chemical Engineers*, **2020**, 115, 28-34	5.3	0
182	Size-dependence and interfacial segregation in nanofilms and nanodroplets of homologous polymer blends. *Physical Chemistry Chemical Physics*, **2020**, 22, 21801-21808	3.6	3
181	Abnormal redeposition of silicate from Si3N4 etching onto SiO2 surfaces in flash memory manufacturing. *Journal of Materials Science*, **2020**, 55, 1126-1135	4.3	2
180	Pressure-gated capillary nanovalves based on liquid nanofilms. *Journal of Colloid and Interface Science*, **2020**, 560, 485-491	9.3	9
179	Favorable partition of nanoswimmers toward a confined slit. *Physical Review E*, **2019**, 100, 042604	2.4	5
178	Peculiar Wetting of N,N-Dimethylformamide: Expansion, Contraction, and Self-Running. *Journal of Physical Chemistry C*, **2019**, 123, 24477-24486	3.8	8
177	Patterning Dewetting and Self-Healing of Polymer Nanofilms on a Brush Layer. *Journal of Physical Chemistry C*, **2019**, 123, 3560-3567	3.8	4
176	Strong competition between adsorption and aggregation of surfactant in nanoscale systems. *Journal of Colloid and Interface Science*, **2019**, 553, 674-681	9.3	15
175	Bilayered membranes of Janus dendrimers with hybrid hydrogenated and fluorinated dendrons: microstructures and coassembly with lipids. *Physical Chemistry Chemical Physics*, **2019**, 21, 15400-15407	3.6	5
174	Self-healing atypical liquid-infused surfaces: Superhydrophobicity and superoleophobicity in submerged conditions. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 97, 96-104	5.3	9
173	Hybridization of lipids to monolayer and bilayer membranes of triblock copolymers. *Journal of Colloid and Interface Science*, **2019**, 544, 53-60	9.3	9
172	Capillary interactions between droplets and ideal roughness: Attractive protrusion and repulsive trench. *Experimental Thermal and Fluid Science*, **2019**, 105, 216-222	3	3

171	Hybrid membranes of lipids and diblock copolymers: From homogeneity to rafts to phase separation. *Physical Review E*, **2019**, 99, 012403	2.4	16
170	Penetration dynamics through nanometer-scale hydrophilic capillaries: Beyond Washburn's equation and extended menisci. *Journal of Colloid and Interface Science*, **2019**, 538, 340-348	9.3	20
169	Dynamics of bridge-loop transformation in a membrane with mixed monolayer/bilayer structures. *Physical Chemistry Chemical Physics*, **2018**, 20, 6582-6590	3.6	16
168	Facile fabrication of superhydrophobic copper mesh for oil/water separation and theoretical principle for separation design. *Journal of the Taiwan Institute of Chemical Engineers*, **2018**, 87, 150-157	5.3	24
167	Controlling Nanodrop Passage through Capillary Nanovalves by Adjusting Lyophilic Crevice Structure. *Journal of Physical Chemistry C*, **2018**, 122, 2231-2237	3.8	7
166	Smart zwitterionic sulfobetaine silane surfaces with switchable wettability for aqueous/nonaqueous drops. *Journal of Materials Chemistry A*, **2018**, 6, 2279-2288	13	19
165	Mechanical pressure, surface excess, and polar order of a dilute rod-like nanoswimmer suspension: role of swimmer-wall interactions. *Soft Matter*, **2018**, 14, 2906-2914	3.6	7
164	Self-healing and dewetting dynamics of a polymer nanofilm on a smooth substrate: strategies for dewetting suppression. *Physical Chemistry Chemical Physics*, **2018**, 20, 20459-20467	3.6	5
163	Branching pattern effect and co-assembly with lipids of amphiphilic Janus dendrimersomes. *Physical Chemistry Chemical Physics*, **2018**, 20, 27305-27313	3.6	10
162	Stress-Driven Separation of Surfactant-Stabilized Emulsions and Gel Emulsions by Superhydrophobic/Superoleophilic Meshes. *Journal of Physical Chemistry C*, **2018**, 122, 24750-24759	3.8	8
161	Hydrodynamic interaction induced breakdown of the state properties of active fluids. *Soft Matter*, **2018**, 14, 5319-5326	3.6	6
160	Extraordinarily Rapid Rise of Tiny Bubbles Sliding beneath Superhydrophobic Surfaces. *Langmuir*, **2017**, 33, 1326-1331	4	7
159	Particle size-induced transition between surface segregation and bulk aggregation in a thin film of athermal polymer-nanoparticle blends. *Journal of Chemical Physics*, **2017**, 146, 014904	3.9	12
158	Surface Segregation and Bulk Aggregation in an Athermal Thin Film of Polymer-Nanoparticle Blends: Strategies of Controlling Phase Behavior. *Langmuir*, **2017**, 33, 2639-2645	4	11
157	Thermo-responsive nanoarrays of silver nanoparticle, silicate nanoplatelet and PNiPAAm for the antimicrobial applications. *Colloids and Surfaces B: Biointerfaces*, **2017**, 152, 459-466	6	17
156	Attractive Encounter of a Nanodrop toward a Nanoprotrusion. *Journal of Physical Chemistry C*, **2017**, 121, 7923-7930	3.8	5
155	Self-Propulsion and Shape Restoration of Aqueous Drops on Sulfobetaine Silane Surfaces. *Langmuir*, **2017**, 33, 6182-6191	4	16
154	Water-repellent hydrophilic nanogrooves. *Physical Chemistry Chemical Physics*, **2017**, 19, 13022-13029	3.6	8

153	Directed drift and fluid pumping of nanoswimmers by periodic rectification-diffusion. *Journal of Chemical Physics*, **2017**, 146, 014902	3.9	4
152	Direction-dependent force-induced dissociation dynamics of an entropic-driven lock-and-key assembly. *Physical Review E*, **2017**, 96, 032610	2.4	
151	Spreading dynamics of a precursor film of nanodrops on total wetting surfaces. *Physical Chemistry Chemical Physics*, **2017**, 19, 27786-27794	3.6	14
150	Forced Spreading of Aqueous Solutions on Zwitterionic Sulfobetaine Surfaces for Rapid Evaporation and Solute Separation. *Langmuir*, **2017**, 33, 7569-7574	4	5
149	Sliding Dynamic Behavior of a Nanobubble on a Surface. *Journal of Physical Chemistry C*, **2017**, 121, 17932-17940	3.8	16
148	Helical wrapping of diblock copolymers on nanocylinder. *Journal of the Taiwan Institute of Chemical Engineers*, **2017**, 81, 104-109	5.3	2
147	Shape Recognition of Nanoparticle-Imprinting Materials Enhanced by Depletants. *Journal of Physical Chemistry C*, **2016**, 120, 19871-19877	3.8	2
146	Meniscus Shape and Wetting Competition of a Drop between a Cone and a Plane. *Langmuir*, **2016**, 32, 8543-9	4	10
145	Superdiffusion in dispersions of active colloids driven by an external field and their sedimentation equilibrium. *Physical Review E*, **2016**, 93, 042611	2.4	7
144	Wetting hysteresis of nanodrops on nanorough surfaces. *Physical Review E*, **2016**, 94, 042807	2.4	25
143	Contact Angle Hysteresis on Graphene Surfaces and Hysteresis-free Behavior on Oil-infused Graphite Surfaces. *Applied Surface Science*, **2016**, 385, 153-161	6.7	25
142	Anti-smudge behavior of facilely fabricated liquid-infused surfaces with extremely low contact angle hysteresis property. *RSC Advances*, **2016**, 6, 19214-19222	3.7	16
141	Copper conductive lines on flexible substrates fabricated at room temperature. *Journal of Materials Chemistry C*, **2016**, 4, 3274-3280	7.1	20
140	Solid-supported polymer bilayers formed by coil-coil block copolymers. *Soft Matter*, **2016**, 12, 6442-50	3.6	8
139	Dynamic and mechanical properties of supported lipid bilayers. *Journal of Chemical Physics*, **2016**, 144, 154904	3.9	13
138	Resisting and pinning of a nanodrop by trenches on a hysteresis-free surface. *Journal of Chemical Physics*, **2016**, 145, 164702	3.9	11
137	Superhydrophilicity and spontaneous spreading on zwitterionic surfaces: carboxybetaine and sulfobetaine. *RSC Advances*, **2016**, 6, 24827-24834	3.7	33
136	Boundary-induced segregation in nanoscale thin films of athermal polymer blends. *Soft Matter*, **2016**, 12, 4603-10	3.6	19

135	Facile manipulation of receding contact angles of a substrate by roughening and fluorination. *Applied Surface Science*, **2015**, 355, 127-132	6.7	11
134	Blending-induced helical morphologies of confined linear triblock copolymers. *Journal of the Taiwan Institute of Chemical Engineers*, **2015**, 56, 196-200	5.3	6
133	Ultralow voltage irreversible electrowetting dynamics of an aqueous drop on a stainless steel surface. *Langmuir*, **2015**, 31, 3840-6	4	14
132	Time-varying wetting behavior on copper wafer treated by wet-etching. *Applied Surface Science*, **2015**, 341, 37-42	6.7	5
131	Spontaneous self-coating of a water drop by flaky copper powders: critical role of the particle shape. *Soft Matter*, **2015**, 11, 4469-75	3.6	3
130	Interaction of novel fluorescent nanoscale ionic silicate platelets with biomaterials for biosensors. *ACS Applied Materials & Interfaces*, **2015**, 7, 10771-8	9.5	4
129	Air pocket stability and the imbibition pathway in droplet wetting. *Soft Matter*, **2015**, 11, 7308-15	3.6	13
128	Enhancing rectification of a nano-swimmer system by multi-layered asymmetric barriers. *Nanoscale*, **2015**, 7, 16451-9	7.7	22
127	Assembly of Lock-and-Key Colloids Mediated by Polymeric Depletant. *Langmuir*, **2015**, 31, 13085-93	4	13
126	Equilibrium Morphological Phase Diagram of Drops in Hydrophilic Cylindrical Channels. *Journal of Physical Chemistry C*, **2015**, 119, 25880-25886	3.8	3
125	Reduction-assisted sintering of micron-sized copper powders at low temperature by ethanol vapor. *RSC Advances*, **2015**, 5, 53275-53279	3.7	14
124	Electrocatalytic Zinc Composites as the Efficient Counter Electrodes of Dye-Sensitized Solar Cells: Study on the Electrochemical Performances and Density Functional Theory Calculations. *ACS Applied Materials & Interfaces*, **2015**, 7, 28254-63	9.5	39
123	Apparent hydrodynamic slip induced by density inhomogeneities at fluid-solid interfaces. *Soft Matter*, **2015**, 11, 6916-20	3.6	18
122	Induced polar order in sedimentation equilibrium of rod-like nanoswimmers. *Soft Matter*, **2015**, 11, 2416-22	3.6	11
121	Drops on hydrophilic conical fibers: gravity effect and coexistent states. *Langmuir*, **2015**, 31, 1704-10	4	20
120	High performance nonvolatile transistor memories of pentacene using the electrets of star-branched p-type polymers and their donor–acceptor blends. *Journal of Materials Chemistry C*, **2014**, 2, 1436	7.1	38
119	Nanostructure collapse by elasto-capillary instability. *Soft Matter*, **2014**, 10, 8542-7	3.6	12
118	Structural and mechanical characteristics of polymersomes. *Soft Matter*, **2014**, 10, 6373-81	3.6	36

117	The fusion mechanism of small polymersomes formed by rod-coil diblock copolymers. *Soft Matter*, **2014**, 10, 1500-11	3.6	11
116	Diffusion, sedimentation equilibrium, and harmonic trapping of run-and-tumble nanoswimmers. *Soft Matter*, **2014**, 10, 3209-17	3.6	26
115	Solute concentration-dependent contact angle hysteresis and evaporation stains. *Langmuir*, **2014**, 30, 7716-23	4	20
114	Anti-oxidative copper nanoparticles and their conductive assembly sintered at room temperature. *Journal of the Taiwan Institute of Chemical Engineers*, **2014**, 45, 2719-2724	5.3	17
113	Self-assembled polymersomes formed by symmetric, asymmetric and side-chain-tethered coil-rod-coil triblock copolymers. *Soft Matter*, **2014**, 10, 1840-52	3.6	14
112	Growing hydrophobicity on a smooth copper oxide thin film at room temperature and reversible wettability transition. *Applied Surface Science*, **2014**, 316, 88-92	6.7	19
111	Diffusion and surface excess of a confined nanoswimmer dispersion. *Journal of Chemical Physics*, **2014**, 141, 184902	3.9	12
110	Colloidosomes formed by nonpolar/polar/nonpolar nanoball amphiphiles. *Journal of Chemical Physics*, **2014**, 141, 054906	3.9	6
109	Phase behaviors and membrane properties of model liposomes: temperature effect. *Journal of Chemical Physics*, **2014**, 141, 124906	3.9	19
108	Structural Characteristics and Fusion Pathways of Onion-Like Multilayered Polymersome Formed by Amphiphilic Comb-Like Graft Copolymers. *Macromolecules*, **2013**, 46, 5644-5656	5.5	42
107	Advancing and receding wetting behavior of a droplet on a narrow rectangular plane. *Colloid and Polymer Science*, **2013**, 291, 347-353	2.4	7
106	Superhydrophilic graphite surfaces and water-dispersible graphite colloids by electrochemical exfoliation. *Journal of Chemical Physics*, **2013**, 139, 064703	3.9	9
105	Depletion-induced size fractionation of nanorod dispersions. *Soft Matter*, **2013**, 9, 7261	3.6	16
104	An equilibrium phase diagram of drops at the bottom of a fiber standing on superhydrophobic flat surfaces. *Soft Matter*, **2013**, 9, 9867	3.6	6
103	Structural and mechanical properties of polymersomes formed by rod□coil diblock copolymers. *Soft Matter*, **2013**, 9, 4802	3.6	17
102	Vesicle deposition on hydrophilic solid surfaces. *Soft Matter*, **2013**, 9, 1908-1919	3.6	28
101	Phase diagram of solvophilic nanodiscs in a polymer solution: depletion attraction. *Journal of Physical Chemistry B*, **2013**, 117, 4098-108	3.4	9
100	Evaporation stains: suppressing the coffee-ring effect by contact angle hysteresis. *Langmuir*, **2013**, 29, 7802-11	4	114

99	Trapped liquid drop in a microchannel: multiple stable states. *Physical Review E*, **2013**, 87, 062401	2.4	5
98	Trapped liquid drop at the end of capillary. *Langmuir*, **2013**, 29, 12154-61	4	11
97	Capillary rise in a microchannel of arbitrary shape and wettability: hysteresis loop. *Langmuir*, **2012**, 28, 16917-26	4	18
96	Self-Assembly of Organophilic Nanoparticles in a Polymer Matrix: Depletion Interactions. *Journal of Physical Chemistry C*, **2012**, 116, 1789-1797	3.8	28
95	Size-dependent properties of small unilamellar vesicles formed by model lipids. *Langmuir*, **2012**, 28, 689-700	4	66
94	Structure–Photophysical Property Relationship of Conjugated Rod–Coil Block Copolymers in Solutions. *Macromolecules*, **2012**, 45, 2166-2170	5.5	10
93	Multilayered Polymersome Formed by Amphiphilic Asymmetric Macromolecular Brushes. *Macromolecules*, **2012**, 45, 4778-4789	5.5	47
92	A Drop Pinned by a Designed Patch on a Tilted Superhydrophobic Surface: Mimicking Desert Beetle. *Journal of Physical Chemistry C*, **2012**, 116, 26487-26495	3.8	37
91	Drops sitting on a tilted plate: receding and advancing pinning. *Langmuir*, **2012**, 28, 5158-66	4	44
90	Membrane properties of swollen vesicles: growth, rupture, and fusion. *Soft Matter*, **2012**, 8, 6139	3.6	25
89	Anomalous wetting on a superhydrophobic graphite surface. *Applied Physics Letters*, **2012**, 100, 121601	3.4	19
88	Effect of grafting architecture on the surfactant-like behavior of clay-poly(NiPAAm) nanohybrids. *Journal of Colloid and Interface Science*, **2012**, 387, 106-14	9.3	8
87	Photoresponsive Polymersomes Formed by Amphiphilic Linear–Dendritic Block Copolymers: Generation-Dependent Aggregation Behavior. *Macromolecules*, **2012**, 45, 7143-7156	5.5	52
86	Effects of molecular architectures and solvophobic additives on the aggregative properties of polymeric surfactants. *Journal of Chemical Physics*, **2012**, 136, 104905	3.9	23
85	Droplet compression and relaxation by a superhydrophobic surface: contact angle hysteresis. *Langmuir*, **2012**, 28, 5606-13	4	26
84	Polymer stretch in two-phase microfluidics: Effect of wall wettability. *Biomicrofluidics*, **2012**, 6, 24130	3.2	10
83	Superiority of branched side chains in spontaneous nanowire formation: exemplified by poly(3-2-methylbutylthiophene) for high-performance solar cells. *Small*, **2011**, 7, 1098-107	11	56
82	Morphology and internal structure control of rod–coil copolymer aggregates by mixed selective solvents. *Soft Matter*, **2011**, 7, 9119	3.6	29

81	Solubilization mechanism of vesicles by surfactants: effect of hydrophobicity. *Journal of Chemical Physics*, **2011**, 135, 045102	3.9	9
80	Anomalous contact angle hysteresis of a captive bubble: advancing contact line pinning. *Langmuir*, **2011**, 27, 6890-6	4	65
79	Self-Assembled Superstructures of Polymer-Grafted Nanoparticles: Effects of Particle Shape and Matrix Polymer. *Journal of Physical Chemistry C*, **2011**, 115, 5566-5577	3.8	53
78	Equilibrium phase diagram of drop-on-fiber: coexistent states and gravity effect. *Langmuir*, **2011**, 27, 3685-92	4	56
77	Dry nanogranular materials. *Applied Physics Letters*, **2011**, 98, 144102	3.4	3
76	Structural aggregates of rod-coil copolymer solutions. *Journal of Chemical Physics*, **2011**, 134, 034904	3.9	45
75	Wet nanogranular materials: colloidal glass and gel. *Journal of Chemical Physics*, **2011**, 135, 174703	3.9	
74	Thin film morphologies of pi-conjugated rod-coil block copolymers with thermoresponsive property: a combined experimental and molecular simulation study. *Journal of Chemical Physics*, **2010**, 132, 214901	3.9	4
73	Communications: Wall free capillarity and pendant drop removal. *Journal of Chemical Physics*, **2010**, 132, 161104	3.9	1
72	Size-dependent electro-osmosis in a microchannel with low-permittivity, salt-free media. *Applied Physics Letters*, **2010**, 97, 164101	3.4	8
71	Free energy and critical force for adhesion clusters. *Physical Review E*, **2010**, 81, 061908	2.4	7
70	Superhydrophilicity to superhydrophobicity transition of CuO nanowire films. *Applied Physics Letters*, **2010**, 96, 114101	3.4	133
69	Wetting Invasion and Retreat across a Corner Boundary. *Journal of Physical Chemistry C*, **2010**, 114, 1615-1621	3.8	39
68	Wetting behavior of a drop atop holes. *Journal of Physical Chemistry B*, **2010**, 114, 7509-15	3.4	19
67	Non-Brownian particle gel. *Applied Physics Letters*, **2009**, 95, 234103	3.4	3
66	The interactions between surfactants and vesicles: dissipative particle dynamics. *Journal of Chemical Physics*, **2009**, 130, 245101	3.9	28
65	Effects of macromolecular architecture on the micellization behavior of complex block copolymers. *Reactive and Functional Polymers*, **2009**, 69, 539-545	4.6	32
64	Donnan potential of dilute colloidal dispersions: Monte Carlo simulations. *Journal of Colloid and Interface Science*, **2009**, 340, 192-201	9.3	11

63	Thermoresponsive Dual-Phase Transition and 3D Self-Assembly of Poly(N-Isopropylacrylamide) Tethered to Silicate Platelets. *Chemistry of Materials*, **2009**, 21, 4071-4079	9.6	16
62	Superhydrophobic floatability of a hydrophilic object driven by edge effect. *Applied Physics Letters*, **2009**, 95, 204107	3.4	18
61	Hydration of "nonfouling" functional groups. *Journal of Physical Chemistry B*, **2009**, 113, 197-201	3.4	83
60	High contact angle hysteresis of superhydrophobic surfaces: Hydrophobic defects. *Applied Physics Letters*, **2009**, 95, 064102	3.4	74
59	Osmotic pressure and virial coefficients of star and comb polymer solutions: dissipative particle dynamics. *Journal of Chemical Physics*, **2009**, 130, 124904	3.9	6
58	Effects of chain architectures on the surface structures of conjugated rod-coil block copolymer brushes. *Journal of Chemical Physics*, **2008**, 128, 154908	3.9	12
57	Brownian escape and force-driven transport through entropic barriers: Particle size effect. *Journal of Chemical Physics*, **2008**, 129, 184901	3.9	21
56	Atypical micellization of star-block copolymer solutions. *Journal of Chemical Physics*, **2008**, 129, 224902	3.9	14
55	Electrophoretic size separation of particles in a periodically constricted microchannel. *Journal of Chemical Physics*, **2008**, 128, 101101	3.9	17
54	Equilibrium sedimentation profile of dilute, salt-free charged colloids. *Journal of Chemical Physics*, **2008**, 129, 204504	3.9	8
53	Tiny bubble removal by gas flow through porous superhydrophobic surfaces: Ostwald ripening. *Applied Physics Letters*, **2008**, 92, 264102	3.4	29
52	Forced dissociation of a biomolecular complex under periodic and correlated random forcing. *Journal of Chemical Physics*, **2008**, 128, 084708	3.9	9
51	Influences of linkage stiffness on rupture rate in single-molecule pulling experiments. *Journal of Physical Chemistry B*, **2007**, 111, 6493-500	3.4	3
50	A-B diblock copolymer micelles: effects of soluble-block length and component compatibility. *Journal of Physical Chemistry B*, **2007**, 111, 10938-45	3.4	55
49	From superhydrophobic to superhydrophilic surfaces tuned by surfactant solutions. *Applied Physics Letters*, **2007**, 91, 094108	3.4	44
48	Theoretical and experimental studies on the surface structures of conjugated rod-coil block copolymer brushes. *Langmuir*, **2007**, 23, 2805-14	4	37
47	Bell's expression and the generalized Garg form for forced dissociation of a biomolecular complex. *Physical Review Letters*, **2007**, 98, 088304	7.4	47
46	Effects of geometrical characteristics of surface roughness on droplet wetting. *Journal of Chemical Physics*, **2007**, 127, 234704	3.9	77

45	Morphologies of multicompartment micelles formed by triblock copolymers. *Journal of Chemical Physics*, **2006**, 125, 194903	3.9	65
44	Unbinding of the streptavidin-biotin complex by atomic force microscopy: a hybrid simulation study. *Journal of Chemical Physics*, **2006**, 125, 104905	3.9	25
43	Effects of multivalent salt addition on effective charge of dilute colloidal solutions. *Journal of Chemical Physics*, **2006**, 125, 194523	3.9	2
42	Conformational entropy of a pseudoknot polymer. *Journal of Chemical Physics*, **2006**, 124, 124904	3.9	1
41	Morphologies of star-block copolymers in dilute solutions. *Journal of Physical Chemistry B*, **2006**, 110, 21643-50	3.4	60
40	Effective charges of polyelectrolytes in a salt-free solution based on counterion chemical potential. *Journal of Physical Chemistry B*, **2005**, 109, 22560-9	3.4	12
39	Transport of a liquid water and methanol mixture through carbon nanotubes under a chemical potential gradient. *Journal of Chemical Physics*, **2005**, 122, 214702	3.9	118
38	How Knotting Regulates the Reversible Intrachain Reaction. *Macromolecules*, **2005**, 38, 2959-2965	5.5	5
37	Intramolecular Janus Segregation of a Heteroarm Star Copolymer. *Macromolecules*, **2005**, 38, 6201-6209	5.5	40
36	Strong repulsive forces between protein and oligo (ethylene glycol) self-assembled monolayers: a molecular simulation study. *Biophysical Journal*, **2005**, 89, 158-66	2.9	278
35	Forced Kramers escape in single-molecule pulling experiments. *Journal of Chemical Physics*, **2005**, 123, 91102	3.9	27
34	Diffusion-controlled first contact of the ends of a polymer: crossover between two scaling regimes. *Physical Review E*, **2005**, 72, 031804	2.4	33
33	Effect of solvent quality on the conformations of a model comb polymer. *Journal of Chemical Physics*, **2004**, 121, 1962-8	3.9	11
32	Network structures of polyhedral oligomeric silsesquioxane based nanocomposites: a Monte Carlo study. *Journal of Chemical Physics*, **2004**, 121, 9693-701	3.9	17
31	Electrostatic attraction between neutral microdroplets by ion fluctuations. *Physical Review E*, **2004**, 69, 060401	2.4	3
30	Surface tension increment due to solute addition. *Physical Review E*, **2004**, 69, 031605	2.4	11
29	Charge renormalization of charged spheres based on thermodynamic properties. *Journal of Chemical Physics*, **2004**, 121, 5494-504	3.9	14
28	Monte Carlo simulations of antibody adsorption and orientation on charged surfaces. *Journal of Chemical Physics*, **2004**, 121, 1050-7	3.9	84

27	Static Properties of a Stacking Chain. *Macromolecules*, **2004**, 37, 9631-9638	5.5	5
26	Loop Formation of a Flexible Polymer with Two Random Reactive Sites. *Macromolecules*, **2004**, 37, 9257-9263	5.5	15
25	Effect of Intrachain Mismatch on Loop-to-Coil Transition of an Associating Chain. *Macromolecules*, **2003**, 36, 5863-5872	5.5	6
24	Interfacial tension of a salty droplet: Monte Carlo study. *Journal of Chemical Physics*, **2003**, 119, 2369-2375	3.9	23
23	Effect of the intermediate state on the loop-to-coil transition of a telechelic chain. *Journal of Chemical Physics*, **2003**, 118, 8513-8520	3.9	6
22	Dipole moment of a microdroplet containing a macroion. *Journal of Chemical Physics*, **2003**, 118, 6689-6696	3.9	5
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