Yu-Jane Sheng

List of Publications by Citations

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

#	Paper	IF	Citations
206	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
205	Superhydrophilicity to superhydrophobicity transition of CuO nanowire films. *Applied Physics Letters*, **2010**, 96, 114101	3.4	133
204	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
203	Evaporation stains: suppressing the coffee-ring effect by contact angle hysteresis. *Langmuir*, **2013**, 29, 7802-11	4	114
202	Monte Carlo simulations of antibody adsorption and orientation on charged surfaces. *Journal of Chemical Physics*, **2004**, 121, 1050-7	3.9	84
201	Hydration of "nonfouling" functional groups. *Journal of Physical Chemistry B*, **2009**, 113, 197-201	3.4	83
200	Effects of geometrical characteristics of surface roughness on droplet wetting. *Journal of Chemical Physics*, **2007**, 127, 234704	3.9	77
199	High contact angle hysteresis of superhydrophobic surfaces: Hydrophobic defects. *Applied Physics Letters*, **2009**, 95, 064102	3.4	74
198	Size-dependent properties of small unilamellar vesicles formed by model lipids. *Langmuir*, **2012**, 28, 689-700	4	66
197	Anomalous contact angle hysteresis of a captive bubble: advancing contact line pinning. *Langmuir*, **2011**, 27, 6890-6	4	65
196	Morphologies of multicompartment micelles formed by triblock copolymers. *Journal of Chemical Physics*, **2006**, 125, 194903	3.9	65
195	Radial Size of a Starburst Dendrimer in Solvents of Varying Quality. *Macromolecules*, **2002**, 35, 7865-7868	5.5	63
194	Morphologies of star-block copolymers in dilute solutions. *Journal of Physical Chemistry B*, **2006**, 110, 21643-50	3.4	60
193	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
192	Equilibrium phase diagram of drop-on-fiber: coexistent states and gravity effect. *Langmuir*, **2011**, 27, 3685-92	4	56
191	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
190	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

189	Photoresponsive Polymersomes Formed by Amphiphilic Linear-Dendritic Block Copolymers: Generation-Dependent Aggregation Behavior. *Macromolecules*, **2012**, 45, 7143-7156	5.5	52
188	Multilayered Polymersome Formed by Amphiphilic Asymmetric Macromolecular Brushes. *Macromolecules*, **2012**, 45, 4778-4789	5.5	47
187	Bell's expression and the generalized Garg form for forced dissociation of a biomolecular complex. *Physical Review Letters*, **2007**, 98, 088304	7.4	47
186	Structural aggregates of rod-coil copolymer solutions. *Journal of Chemical Physics*, **2011**, 134, 034904	3.9	45
185	Drops sitting on a tilted plate: receding and advancing pinning. *Langmuir*, **2012**, 28, 5158-66	4	44
184	From superhydrophobic to superhydrophilic surfaces tuned by surfactant solutions. *Applied Physics Letters*, **2007**, 91, 094108	3.4	44
183	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
182	Intramolecular Janus Segregation of a Heteroarm Star Copolymer. *Macromolecules*, **2005**, 38, 6201-6209	5.5	40
181	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
180	Wetting Invasion and Retreat across a Corner Boundary. *Journal of Physical Chemistry C*, **2010**, 114, 16153-16621	3.8	39
179	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
178	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
177	Theoretical and experimental studies on the surface structures of conjugated rod-coil block copolymer brushes. *Langmuir*, **2007**, 23, 2805-14	4	37
176	Structural and mechanical characteristics of polymersomes. *Soft Matter*, **2014**, 10, 6373-81	3.6	36
175	Diffusion-controlled first contact of the ends of a polymer: crossover between two scaling regimes. *Physical Review E*, **2005**, 72, 031804	2.4	33
174	Statics and dynamics of a single polymer chain confined in a tube. *Journal of Chemical Physics*, **2001**, 114, 4724	3.9	33
173	Superhydrophilicity and spontaneous spreading on zwitterionic surfaces: carboxybetaine and sulfobetaine. *RSC Advances*, **2016**, 6, 24827-24834	3.7	33
172	Effects of macromolecular architecture on the micellization behavior of complex block copolymers. *Reactive and Functional Polymers*, **2009**, 69, 539-545	4.6	32

171	Morphology and internal structure control of rod–coil copolymer aggregates by mixed selective solvents. *Soft Matter*, **2011**, 7, 9119	3.6	29
170	Tiny bubble removal by gas flow through porous superhydrophobic surfaces: Ostwald ripening. *Applied Physics Letters*, **2008**, 92, 264102	3.4	29
169	Vesicle deposition on hydrophilic solid surfaces. *Soft Matter*, **2013**, 9, 1908-1919	3.6	28
168	Self-Assembly of Organophilic Nanoparticles in a Polymer Matrix: Depletion Interactions. *Journal of Physical Chemistry C*, **2012**, 116, 1789-1797	3.8	28
167	The interactions between surfactants and vesicles: dissipative particle dynamics. *Journal of Chemical Physics*, **2009**, 130, 245101	3.9	28
166	Forced Kramers escape in single-molecule pulling experiments. *Journal of Chemical Physics*, **2005**, 123, 91102	3.9	27
165	Diffusion, sedimentation equilibrium, and harmonic trapping of run-and-tumble nanoswimmers. *Soft Matter*, **2014**, 10, 3209-17	3.6	26
164	Droplet compression and relaxation by a superhydrophobic surface: contact angle hysteresis. *Langmuir*, **2012**, 28, 5606-13	4	26
163	Wetting hysteresis of nanodrops on nanorough surfaces. *Physical Review E*, **2016**, 94, 042807	2.4	25
162	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
161	Membrane properties of swollen vesicles: growth, rupture, and fusion. *Soft Matter*, **2012**, 8, 6139	3.6	25
160	Unbinding of the streptavidin-biotin complex by atomic force microscopy: a hybrid simulation study. *Journal of Chemical Physics*, **2006**, 125, 104905	3.9	25
159	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
158	Effects of molecular architectures and solvophobic additives on the aggregative properties of polymeric surfactants. *Journal of Chemical Physics*, **2012**, 136, 104905	3.9	23
157	Interfacial tension of a salty droplet: Monte Carlo study. *Journal of Chemical Physics*, **2003**, 119, 2369-2375	3.9	23
156	Enhancing rectification of a nano-swimmer system by multi-layered asymmetric barriers. *Nanoscale*, **2015**, 7, 16451-9	7.7	22
155	Brownian escape and force-driven transport through entropic barriers: Particle size effect. *Journal of Chemical Physics*, **2008**, 129, 184901	3.9	21
154	Copper conductive lines on flexible substrates fabricated at room temperature. *Journal of Materials Chemistry C*, **2016**, 4, 3274-3280	7.1	20

153	Solute concentration-dependent contact angle hysteresis and evaporation stains. *Langmuir*, **2014**, 30, 7716-23	4	20
152	Drops on hydrophilic conical fibers: gravity effect and coexistent states. *Langmuir*, **2015**, 31, 1704-10	4	20
151	Topological effects on statics and dynamics of knotted polymers. *Physical Review E*, **1998**, 58, R1222-R1225	2.4	20
150	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
149	Smart zwitterionic sulfobetaine silane surfaces with switchable wettability for aqueous/nonaqueous drops. *Journal of Materials Chemistry A*, **2018**, 6, 2279-2288	13	19
148	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
147	Phase behaviors and membrane properties of model liposomes: temperature effect. *Journal of Chemical Physics*, **2014**, 141, 124906	3.9	19
146	Anomalous wetting on a superhydrophobic graphite surface. *Applied Physics Letters*, **2012**, 100, 121601	3.4	19
145	Wetting behavior of a drop atop holes. *Journal of Physical Chemistry B*, **2010**, 114, 7509-15	3.4	19
144	Boundary-induced segregation in nanoscale thin films of athermal polymer blends. *Soft Matter*, **2016**, 12, 4603-10	3.6	19
143	Apparent hydrodynamic slip induced by density inhomogeneities at fluid-solid interfaces. *Soft Matter*, **2015**, 11, 6916-20	3.6	18
142	Capillary rise in a microchannel of arbitrary shape and wettability: hysteresis loop. *Langmuir*, **2012**, 28, 16917-26	4	18
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139	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
138	Structural and mechanical properties of polymersomes formed by rod–coil diblock copolymers. *Soft Matter*, **2013**, 9, 4802	3.6	17
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136	Electrophoretic size separation of particles in a periodically constricted microchannel. *Journal of Chemical Physics*, **2008**, 128, 101101	3.9	17

135	Network structures of polyhedral oligomeric silsesquioxane based nanocomposites: a Monte Carlo study. *Journal of Chemical Physics*, **2004**, 121, 9693-701	3.9	17
134	Self-Propulsion and Shape Restoration of Aqueous Drops on Sulfobetaine Silane Surfaces. *Langmuir* , **2017**, 33, 6182-6191	4	16
133	Dynamics of bridge-loop transformation in a membrane with mixed monolayer/bilayer structures. *Physical Chemistry Chemical Physics*, **2018**, 20, 6582-6590	3.6	16
132	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
131	Depletion-induced size fractionation of nanorod dispersions. *Soft Matter*, **2013**, 9, 7261	3.6	16
130	Sliding Dynamic Behavior of a Nanobubble on a Surface. *Journal of Physical Chemistry C*, **2017**, 121, 17932-17940	3.8	16
129	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
128	Ion Fluctuations within an Aqueous Microdroplet in an Apolar Medium. *Physical Review Letters*, **2001**, 87,	7.4	16
127	Hybrid membranes of lipids and diblock copolymers: From homogeneity to rafts to phase separation. *Physical Review E*, **2019**, 99, 012403	2.4	16
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123	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
122	Spreading dynamics of a precursor film of nanodrops on total wetting surfaces. *Physical Chemistry Chemical Physics*, **2017**, 19, 27786-27794	3.6	14
121	Reduction-assisted sintering of micron-sized copper powders at low temperature by ethanol vapor. *RSC Advances*, **2015**, 5, 53275-53279	3.7	14
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119	Charge renormalization of charged spheres based on thermodynamic properties. *Journal of Chemical Physics*, **2004**, 121, 5494-504	3.9	14
118	Open-to-Closed Transition of a Hard-Sphere Chain with Attractive Ends. *Macromolecules*, **2002**, 35, 9624-9627	3.5	14

117	Air pocket stability and the imbibition pathway in droplet wetting. *Soft Matter*, **2015**, 11, 7308-15	3.6	13
116	Assembly of Lock-and-Key Colloids Mediated by Polymeric Depletant. *Langmuir*, **2015**, 31, 13085-93	4	13
115	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
114	Orientation of a Y-shaped biomolecule adsorbed on a charged surface. *Physical Review E*, **2002**, 66, 011911	2.4	13
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110	Diffusion and surface excess of a confined nanoswimmer dispersion. *Journal of Chemical Physics*, **2014**, 141, 184902	3.9	12
109	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
108	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
107	Deformation of a stretched polymer knot. *Physical Review E*, **2000**, 61, 2895-2901	2.4	12
106	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
105	Facile manipulation of receding contact angles of a substrate by roughening and fluorination. *Applied Surface Science*, **2015**, 355, 127-132	6.7	11
104	The fusion mechanism of small polymersomes formed by rod-coil diblock copolymers. *Soft Matter*, **2014**, 10, 1500-11	3.6	11
103	Induced polar order in sedimentation equilibrium of rod-like nanoswimmers. *Soft Matter*, **2015**, 11, 2416-22	3.6	11
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101	Donnan potential of dilute colloidal dispersions: Monte Carlo simulations. *Journal of Colloid and Interface Science*, **2009**, 340, 192-201	9.3	11
100	Effect of solvent quality on the conformations of a model comb polymer. *Journal of Chemical Physics*, **2004**, 121, 1962-8	3.9	11

99	Surface tension increment due to solute addition. *Physical Review E*, **2004**, 69, 031605	2.4	11
98	Nonequilibrium relaxation times in polymer knot groups. *Physical Review Letters*, **2001**, 87, 175503	7.4	11
97	Resisting and pinning of a nanodrop by trenches on a hysteresis-free surface. *Journal of Chemical Physics*, **2016**, 145, 164702	3.9	11
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94	Polymer stretch in two-phase microfluidics: Effect of wall wettability. *Biomicrofluidics*, **2012**, 6, 24130	3.2	10
93	A cubic equation of state for predicting vapor–liquid equilibria of hydrocarbon mixtures using a group contribution mixing rule. *Fluid Phase Equilibria*, **1989**, 46, 197-210	2.5	10
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91	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
90	Hybridization of lipids to monolayer and bilayer membranes of triblock copolymers. *Journal of Colloid and Interface Science*, **2019**, 544, 53-60	9.3	9
89	Superhydrophilic graphite surfaces and water-dispersible graphite colloids by electrochemical exfoliation. *Journal of Chemical Physics*, **2013**, 139, 064703	3.9	9
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87	Solubilization mechanism of vesicles by surfactants: effect of hydrophobicity. *Journal of Chemical Physics*, **2011**, 135, 045102	3.9	9
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85	Pressure-gated capillary nanovalves based on liquid nanofilms. *Journal of Colloid and Interface Science*, **2020**, 560, 485-491	9.3	9
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74	Controlling Nanodrop Passage through Capillary Nanovalves by Adjusting Lyophilic Crevice Structure. *Journal of Physical Chemistry C*, **2018**, 122, 2231-2237	3.8	7
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66	The degree of dissociation of ionic surfactant shells within a W/O microdroplet. *Journal of Chemical Physics*, **2000**, 113, 10304-10312	3.9	7
65	Morphology and Wetting Stability of Nanofilms of ABC Miktoarm Star Terpolymers. *Macromolecules*, **2020**, 53, 594-601	5.5	7
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44	Directed drift and fluid pumping of nanoswimmers by periodic rectification-diffusion. *Journal of Chemical Physics*, **2017**, 146, 014902	3.9	4
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