

Srinivasa R Raghavan

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182
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12,648
ext. citations

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avg, IF

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#	Paper	IF	Citations
182	Flame retardant mechanism of polyamide 6/clay nanocomposites. <i>Polymer</i> , 2004 , 45, 881-891	3.9	396
181	Highly Viscoelastic Wormlike Micellar Solutions Formed by Cationic Surfactants with Long Unsaturated Tails. <i>Langmuir</i> , 2001 , 17, 300-306	4	388
180	Self-assembly of surfactant vesicles that transform into viscoelastic wormlike micelles upon heating. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6669-75	16.4	344
179	Rheology of Silica Dispersions in Organic Liquids: New Evidence for Solvation Forces Dictated by Hydrogen Bonding. <i>Langmuir</i> , 2000 , 16, 7920-7930	4	332
178	Wormlike Micelles Formed by Synergistic Self-Assembly in Mixtures of Anionic and Cationic Surfactants. <i>Langmuir</i> , 2002 , 18, 3797-3803	4	310
177	Sugar-derived phase-selective molecular gelators as model solidifiers for oil spills. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7695-8	16.4	293
176	Silica Hollow Spheres by Templating of Catanionic Vesicles. <i>Langmuir</i> , 2003 , 19, 1069-1074	4	253
175	Electrical and Rheological Percolation in Polystyrene/MWCNT Nanocomposites. <i>Macromolecules</i> , 2007 , 40, 7400-7406	5.5	251
174	Microstructural Changes in SDS Micelles Induced by Hydrotropic Salt. <i>Langmuir</i> , 2002 , 18, 2543-2548	4	245
173	Kinetics of 5 α -cholestan-3 β -yl N-(2-naphthyl)carbamate/n-alkane organogel formation and its influence on the fibrillar networks. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4336-44	16.4	238
172	Microstructure and Dynamics of Wormlike Micellar Solutions Formed by Mixing Cationic and Anionic Surfactants. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 11035-11044	3.4	236
171	Shear-Thickening Response of Fumed Silica Suspensions under Steady and Oscillatory Shear. <i>Journal of Colloid and Interface Science</i> , 1997 , 185, 57-67	9.3	232
170	Wormlike micelles of a C22-tailed zwitterionic betaine surfactant: from viscoelastic solutions to elastic gels. <i>Langmuir</i> , 2007 , 23, 12849-56	4	215
169	Unraveling the mechanism of nanotube formation by chiral self-assembly of amphiphiles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2511-7	16.4	214
168	Distinct kinetic pathways generate organogel networks with contrasting fractality and thixotropic properties. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15341-52	16.4	193
167	A simple class of photorheological fluids: surfactant solutions with viscosity tunable by light. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1553-9	16.4	192
166	Cloud-Point Phenomena in Wormlike Micellar Systems Containing Cationic Surfactant and Salt. <i>Langmuir</i> , 2002 , 18, 1056-1064	4	175

165	Extrusion-Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. <i>Advanced Materials</i> , 2018 , 30, e1705651	24	164
164	A self-assembling hydrophobically modified chitosan capable of reversible hemostatic action. <i>Biomaterials</i> , 2011 , 32, 3351-7	15.6	156
163	Effects of aspect ratio of MWNT on the flammability properties of polymer nanocomposites. <i>Polymer</i> , 2007 , 48, 6086-6096	3.9	153
162	Superabsorbent Hydrogels That Are Robust and Highly Stretchable. <i>Macromolecules</i> , 2014 , 47, 4445-4452	3.5	150
161	High-Fluorinated Electrolytes for LiB Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803774	21.8	144
160	Conductivity enhancement of carbon nanotube and nanofiber-based polymer nanocomposites by melt annealing. <i>Polymer</i> , 2008 , 49, 4846-4851	3.9	138
159	How do liquid mixtures solubilize insoluble gelators? Self-assembly properties of pyrenyl-linker-glucono gelators in tetrahydrofuran-water mixtures. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8989-99	16.4	135
158	The conundrum of gel formation by molecular nanofibers, wormlike micelles, and filamentous proteins: gelation without cross-links?. <i>Soft Matter</i> , 2012 , 8, 8539	3.6	129
157	Viscosity increase with temperature in cationic surfactant solutions due to the growth of wormlike micelles. <i>Langmuir</i> , 2005 , 21, 10998-1004	4	129
156	A new reverse wormlike micellar system: mixtures of bile salt and lecithin in organic liquids. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5751-6	16.4	129
155	Vesicle-biopolymer gels: networks of surfactant vesicles connected by associating biopolymers. <i>Langmuir</i> , 2005 , 21, 26-33	4	128
154	Liposomes: Clinical Applications and Potential for Image-Guided Drug Delivery. <i>Molecules</i> , 2018 , 23,	4.8	125
153	Shear-induced microstructural changes in flocculated suspensions of fumed silica. <i>Journal of Rheology</i> , 1995 , 39, 1311-1325	4.1	124
152	Colloidal Interactions between Particles with Tethered Nonpolar Chains Dispersed in Polar Media: Direct Correlation between Dynamic Rheology and Interaction Parameters. <i>Langmuir</i> , 2000 , 16, 1066-1077	4.7	120
151	Origins of the viscosity peak in wormlike micellar solutions. 1. Mixed cationic surfactants. A cryo-transmission electron microscopy study. <i>Langmuir</i> , 2009 , 25, 10483-9	4	119
150	Anionic wormlike micellar fluids that display cloud points: rheology and phase behavior. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 8599-604	3.4	116
149	Composite Polymer Electrolytes Based on Poly(ethylene glycol) and Hydrophobic Fumed Silica: Dynamic Rheology and Microstructure. <i>Chemistry of Materials</i> , 1998 , 10, 244-251	9.6	105
148	Chitosan: a soft interconnect for hierarchical assembly of nano-scale components. <i>Soft Matter</i> , 2007 , 3, 521-527	3.6	104

147	G4-quartetM(+) borate hydrogels. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5819-27	16.4	100
146	Reversible photorheological fluids based on spiropyran-doped reverse micelles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8461-3	16.4	99
145	Pyrenyl-linker-glucono gelators. Correlations of gel properties with gelator structures and characterization of solvent effects. <i>Langmuir</i> , 2013 , 29, 793-805	4	98
144	Insights into organogelation and its kinetics from Hansen solubility parameters. Toward a priori predictions of molecular gelation. <i>Soft Matter</i> , 2014 , 10, 2632-40	3.6	91
143	Attachment of a hydrophobically modified biopolymer at the oil-water interface in the treatment of oil spills. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3572-80	9.5	91
142	An effective dispersant for oil spills based on food-grade amphiphiles. <i>Langmuir</i> , 2014 , 30, 9285-94	4	88
141	Contrasting effects of temperature on the rheology of normal and reverse wormlike micelles. <i>Langmuir</i> , 2007 , 23, 372-6	4	87
140	Light-responsive threadlike micelles as drag reducing fluids with enhanced heat-transfer capabilities. <i>Langmuir</i> , 2011 , 27, 5806-13	4	83
139	Shear-induced phase separation in solutions of wormlike micelles. <i>Langmuir</i> , 2004 , 20, 3564-73	4	82
138	Photogelling fluids based on light-activated growth of zwitterionic wormlike micelles. <i>Soft Matter</i> , 2009 , 5, 797-803	3.6	80
137	Microfluidic directed self-assembly of liposome-hydrogel hybrid nanoparticles. <i>Langmuir</i> , 2010 , 26, 11584-8	7.9	79
136	A facile route for creating "reverse" vesicles: insights into "reverse" self-assembly in organic liquids. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8813-7	16.4	77
135	Salt effects on the phase behavior, structure, and rheology of chromonic liquid crystals. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19126-33	3.4	76
134	Chitosan-Alginate Microcapsules Provide Gastric Protection and Intestinal Release of ICAM-1-Targeting Nanocarriers, Enabling GI Targeting In Vivo. <i>Advanced Functional Materials</i> , 2016 , 26, 3382-3393	15.6	76
133	Rheological study of crosslinking and gelation in chlorobutyl elastomer systems. <i>Polymer</i> , 1996 , 37, 5869-5875	3.9	75
132	Nonaqueous photorheological fluids based on light-responsive reverse wormlike micelles. <i>Langmuir</i> , 2010 , 26, 5405-11	4	74
131	Associative polymers bearing n-alkyl hydrophobes: Rheological evidence for microgel-like behavior. <i>Journal of Rheology</i> , 1999 , 43, 1175-1194	4.1	73
130	Enzymatic grafting of peptides from casein hydrolysate to chitosan. Potential for value-added byproducts from food-processing wastes. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 788-93	5.7	71

129	Effect of Colloidal Fillers on the Cross-Linking of a UV-Curable Polymer: Gel Point Rheology and the Winter-Chambon Criterion. <i>Macromolecules</i> , 2001 , 34, 4526-4533	5.5	71
128	Sugar-Derived Phase-Selective Molecular Gelators as Model Solidifiers for Oil Spills. <i>Angewandte Chemie</i> , 2010 , 122, 7861-7864	3.6	68
127	Gel sculpture: moldable, load-bearing and self-healing non-polymeric supramolecular gel derived from a simple organic salt. <i>Chemistry - A European Journal</i> , 2012 , 18, 8057-63	4.8	67
126	Composite polymer electrolytes using surface-modified fumed silicas: conductivity and rheology. <i>Solid State Ionics</i> , 1998 , 111, 117-123	3.3	67
125	A noninvasive thin film sensor for monitoring oxygen tension during in vitro cell culture. <i>Analytical Chemistry</i> , 2009 , 81, 9239-46	7.8	66
124	Photogelling colloidal dispersions based on light-activated assembly of nanoparticles. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7135-41	16.4	66
123	Distinct character of surfactant gels: a smooth progression from micelles to fibrillar networks. <i>Langmuir</i> , 2009 , 25, 8382-5	4	64
122	A simple route to fluids with photo-switchable viscosities based on a reversible transition between vesicles and wormlike micelles. <i>Soft Matter</i> , 2013 , 9, 5025	3.6	62
121	Regulating oxygen levels in a microfluidic device. <i>Analytical Chemistry</i> , 2011 , 83, 8821-4	7.8	60
120	Light-activated ionic gelation of common biopolymers. <i>Langmuir</i> , 2011 , 27, 12591-6	4	56
119	Thermogelling aqueous fluids containing low concentrations of Pluronic F127 and laponite nanoparticles. <i>Langmuir</i> , 2010 , 26, 8015-20	4	56
118	Hybrid hydrogel sheets that undergo pre-programmed shape transformations. <i>Soft Matter</i> , 2014 , 10, 8157-62	3.6	55
117	Microfluidic synthesis of monodisperse PDMS microbeads as discrete oxygen sensors. <i>Soft Matter</i> , 2012 , 8, 923-926	3.6	54
116	Liposome-templated supramolecular assembly of responsive alginate nanogels. <i>Langmuir</i> , 2008 , 24, 4092-6	4	54
115	Biofabricating Multifunctional Soft Matter with Enzymes and Stimuli-Responsive Materials. <i>Advanced Functional Materials</i> , 2012 , 22, 3004-3012	15.6	50
114	Can simple salts influence self-assembly in oil? Multivalent cations as efficient gelators of lecithin organosols. <i>Langmuir</i> , 2010 , 26, 13831-8	4	50
113	Surfactant vesicles for high-efficiency capture and separation of charged organic solutes. <i>Langmuir</i> , 2007 , 23, 8965-71	4	50
112	Biopolymer-connected liposome networks as injectable biomaterials capable of sustained local drug delivery. <i>Biomacromolecules</i> , 2012 , 13, 3388-94	6.9	49

111	Nanoparticle-crosslinked hydrogels as a class of efficient materials for separation and ion exchange. <i>Soft Matter</i> , 2011 , 7, 8192	3.6	49
110	Biopolymer capsules bearing polydiacetylenic vesicles as colorimetric sensors of pH and temperature. <i>Soft Matter</i> , 2011 , 7, 3273	3.6	48
109	Highly efficient capture and long-term encapsulation of dye by cationic surfactant vesicles. <i>Langmuir</i> , 2006 , 22, 6461-4	4	46
108	Enzyme-Triggered Folding of Hydrogels: Toward a Mimic of the Venus Flytrap. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19066-74	9.5	45
107	Supramolecular synthons in designing low molecular mass gelling agents: L-amino acid methyl ester cinnamate salts and their anti-solvent-induced instant gelation. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 1038-47	4.5	45
106	Structural analysis of flexible liposome formulations: new insights into the skin-penetrating ability of soft nanostructures. <i>Soft Matter</i> , 2012 , 8, 10226	3.6	42
105	Synergistic gelation of silica nanoparticles and a sorbitol-based molecular gelator to yield highly-conductive free-standing gel electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 262-7	9.5	42
104	pH-responsive jello: gelatin gels containing fatty acid vesicles. <i>Langmuir</i> , 2009 , 25, 8519-25	4	42
103	Mixtures of lecithin and bile salt can form highly viscous wormlike micellar solutions in water. <i>Langmuir</i> , 2014 , 30, 10221-30	4	41
102	Catalytic Propulsion and Magnetic Steering of Soft, Patchy Microcapsules: Ability to Pick-Up and Drop-Off Microscale Cargo. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15676-83	9.5	40
101	Self-assembled organogels obtained by adding minute concentrations of a bile salt to AOT reverse micelles. <i>Soft Matter</i> , 2008 , 4, 1086-1093	3.6	40
100	Tyrosinase-mediated grafting and crosslinking of natural phenols confers functional properties to chitosan. <i>Biochemical Engineering Journal</i> , 2014 , 89, 21-27	4.2	39
99	Combinatorial library of primaryalkylammonium dicarboxylate gelators: a supramolecular synthon approach. <i>Langmuir</i> , 2009 , 25, 8742-50	4	39
98	Smart Hydrogel-Based Valves Inspired by the Stomata in Plants. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18430-8	9.5	38
97	A new design for an artificial cell: polymer microcapsules with addressable inner compartments that can harbor biomolecules, colloids or microbial species. <i>Chemical Science</i> , 2017 , 8, 6893-6903	9.4	37
96	Manipulating quantum dots to nanometer precision by control of flow. <i>Nano Letters</i> , 2010 , 10, 2525-30	11.5	37
95	Gel Formation: Phase Diagrams Using Tabletop Rheology and Calorimetry 2006 , 241-252		37
94	Nanodiamond gels in nonpolar media: Colloidal and rheological properties. <i>Journal of Rheology</i> , 2014 , 58, 1599-1614	4.1	35

93	Photo-activated ionic gelation of alginate hydrogel: real-time rheological monitoring of the two-step crosslinking mechanism. <i>Soft Matter</i> , 2014 , 10, 4990-5002	3.6	35
92	Onion-like multilayered polymer capsules synthesized by a bioinspired inside-out technique. <i>Nature Communications</i> , 2017 , 8, 193	17.4	35
91	Photoreversible micellar solution as a smart drag-reducing fluid for use in district heating/cooling systems. <i>Langmuir</i> , 2013 , 29, 102-9	4	35
90	Encapsulated fusion protein confers "sense and respond" activity to chitosan-alginate capsules to manipulate bacterial quorum sensing. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 552-62	4.9	35
89	Transition from unilamellar to bilamellar vesicles induced by an amphiphilic biopolymer. <i>Physical Review Letters</i> , 2006 , 96, 048102	7.4	35
88	Light-induced transformation of vesicles to micelles and vesicle-gels to sols. <i>Soft Matter</i> , 2013 , 9, 11576	3.6	33
87	Wormlike micelles versus water-soluble polymers as rheology-modifiers: similarities and differences. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24458-24466	3.6	33
86	Sprayable Foams Based on an Amphiphilic Biopolymer for Control of Hemorrhage Without Compression. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 440-447	5.5	33
85	Persistence of birefringence in sheared solutions of wormlike micelles. <i>Langmuir</i> , 2009 , 25, 167-72	4	33
84	Polymerizable vesicles based on a single-tailed fatty acid surfactant: a simple route to robust nanocontainers. <i>Langmuir</i> , 2009 , 25, 1566-71	4	33
83	Hydrophobically-modified chitosan foam: description and hemostatic efficacy. <i>Journal of Surgical Research</i> , 2015 , 193, 316-23	2.5	32
82	Thermoreversible gelation in aqueous dispersions of colloidal particles bearing grafted poly(ethylene oxide) chains. <i>Journal of Rheology</i> , 2001 , 45, 913-927	4.1	32
81	Enhanced Miscibility of Low-Molecular-Weight Polystyrene/Polyisoprene Blends in Supercritical CO ₂ . <i>Journal of Physical Chemistry B</i> , 1999 , 103, 5472-5476	3.4	32
80	Quantitative characterization of the formation of an interpenetrating phase composite in polystyrene from the percolation of multiwalled carbon nanotubes. <i>Nanotechnology</i> , 2007 , 18, 505705	3.4	31
79	Accessing biology's toolbox for the mesoscale biofabrication of soft matter. <i>Soft Matter</i> , 2013 , 9, 6019	3.6	30
78	Strain-stiffening response in transient networks formed by reverse wormlike micelles. <i>Langmuir</i> , 2008 , 24, 8405-8	4	30
77	Shedding light on helical microtubules: real-time observations of microtubule self-assembly by light microscopy. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14375-81	16.4	29
76	Water-in-salt polymer electrolyte for Li-ion batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 2878-2887	3.9	29

75	Efficient dispersion of crude oil by blends of food-grade surfactants: Toward greener oil-spill treatments. <i>Marine Pollution Bulletin</i> , 2015 , 101, 92-97	6.7	27
74	A New Approach for Creating Polymer Hydrogels with Regions of Distinct Chemical, Mechanical, and Optical Properties. <i>Macromolecules</i> , 2012 , 45, 5712-5717	5.5	27
73	Glucose oxidase-mediated gelation: a simple test to detect glucose in food products. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 8963-7	5.7	27
72	Self-destructing "mothership" capsules for timed release of encapsulated contents. <i>Langmuir</i> , 2013 , 29, 7993-8	4	27
71	Influence of binary surfactant mixtures on the rheology of associative polymer solutions. <i>Langmuir</i> , 2008 , 24, 7797-802	4	26
70	Gelation of vesicles and nanoparticles using water-soluble hydrophobically modified chitosan. <i>Langmuir</i> , 2013 , 29, 15302-8	4	25
69	Reverse self-assembly of lipid onions induced by gadolinium and calcium ions. <i>Soft Matter</i> , 2013 , 9, 200-207	3.07	24
68	Determination of efficacy of novel modified chitosan sponge dressing in a lethal arterial injury model in swine. <i>Journal of Trauma</i> , 2012 , 72, 899-907		24
67	Capture and Direct Amplification of DNA on Chitosan Microparticles in a Single PCR-Optimal Solution. <i>Analytical Chemistry</i> , 2015 , 87, 11022-9	7.8	23
66	Colloidal Properties of Nanoerythroosomes Derived from Bovine Red Blood Cells. <i>Langmuir</i> , 2016 , 32, 171-9	4	23
65	Biofilm Formation by Hydrocarbon-Degrading Marine Bacteria and Its Effects on Oil Dispersion. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14490-14499	8.3	23
64	Microfluidics: A New Approach to In-Situ Micromanufacturing—Microfluidic Fabrication of Magnetic and Fluorescent Chains Using Chitosan Microparticles as Building Blocks (Small 17/2011). <i>Small</i> , 2011 , 7, 2469-2469	11	23
63	A simple method to improve the clarity and rheological properties of polymer/clay nanocomposites by using fractionated clay particles. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 130-5	9.5	23
62	Reversible gelation of cells using self-assembling hydrophobically-modified biopolymers: towards self-assembly of tissue. <i>Biomaterials Science</i> , 2014 , 2, 1016-1023	7.4	20
61	Thermothickening in solutions of telechelic associating polymers and cyclodextrins. <i>Langmuir</i> , 2010 , 26, 56-62	4	19
60	Determination of efficacy of a novel alginate dressing in a lethal arterial injury model in swine. <i>Injury</i> , 2016 , 47, 2105-2109	2.5	19
59	Wormlike Micelles of a Cationic Surfactant in Polar Organic Solvents: Extending Surfactant Self-Assembly to New Systems and Subzero Temperatures. <i>Langmuir</i> , 2019 , 35, 12782-12791	4	18
58	Microfluidic generation of uniform water droplets using gas as the continuous phase. <i>Journal of Colloid and Interface Science</i> , 2015 , 448, 275-9	9.3	18

57	A new approach to in-situ "micromanufacturing": microfluidic fabrication of magnetic and fluorescent chains using chitosan microparticles as building blocks. <i>Small</i> , 2011 , 7, 2470-6	11	18
56	Light-Directed Self-Assembly of Robust Alginate Gels at Precise Locations in Microfluidic Channels. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17529-38	9.5	17
55	Nanostructured polymers prepared using a self-assembled nanofibrillar scaffold as a reverse template. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 8026-30	3.4	17
54	Reversible vesicle restraint in response to spatiotemporally controlled electrical signals: a bridge between electrical and chemical signaling modes. <i>Langmuir</i> , 2007 , 23, 286-91	4	17
53	Hydrophobically modified chitosan gauze: a novel topical hemostat. <i>Journal of Surgical Research</i> , 2017 , 207, 45-52	2.5	16
52	Carbon microspheres as network nodes in a novel biocompatible gel. <i>Soft Matter</i> , 2011 , 7, 4170	3.6	16
51	Nature-Inspired Hydrogels with Soft and Stiff Zones that Exhibit a 100-Fold Difference in Elastic Modulus. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34664-34673	9.5	16
50	Microfluidic assembly of Janus-like dimer capsules. <i>Langmuir</i> , 2013 , 29, 13624-9	4	15
49	Influence of polymer viscoelasticity on the residence distributions of extruders. <i>AIChE Journal</i> , 2006 , 52, 1451-1459	3.6	15
48	Microfluidic synthesis of macroporous polymer immunobeads. <i>Polymer</i> , 2012 , 53, 5469-5475	3.9	14
47	Application of PET deprotection for orthogonal photocontrol of aqueous solution viscosity. <i>Chemical Communications</i> , 2010 , 46, 8983-5	5.8	14
46	Amphiphilic Polypeptoids Serve as the Connective Glue to Transform Liposomes into Multilamellar Structures with Closely Spaced Bilayers. <i>Langmuir</i> , 2017 , 33, 2780-2789	4	13
45	Capturing rare cells from blood using a packed bed of custom-synthesized chitosan microparticles. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4313-4319	7.3	13
44	Bioinspired vesicle restraint and mobilization using a biopolymer scaffold. <i>Langmuir</i> , 2006 , 22, 2951-5	4	13
43	Vesicle capture on patterned surfaces coated with amphiphilic biopolymers. <i>Soft Matter</i> , 2011 , 7, 1219-1226	3.8	12
42	Reversible electroadhesion of hydrogels to animal tissues for suture-less repair of cuts or tears. <i>Nature Communications</i> , 2021 , 12, 4419	17.4	12
41	Programming the Shape Transformation of a Composite Hydrogel Sheet via Erasable and Rewritable Nanoparticle Patterns. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42654-42660	9.5	11
40	Gelation of Oil upon Contact with Water: A Bioinspired Scheme for the Self-Repair of Oil Leaks from Underwater Tubes. <i>Langmuir</i> , 2015 , 31, 5259-64	4	11

- 39 A new method for centrifugal separation of blood components: Creating a rigid barrier between density-stratified layers using a UV-curable thixotropic gel. *Journal of Materials Chemistry*, **2012**, 22, 2378-2382¹¹
- 38 Incorporating LsrK AI-2 quorum quenching capability in a functionalized biopolymer capsule. *Biotechnology and Bioengineering*, **2018**, 115, 278-289 4.9 11
- 37 Expanding Hydrophobically Modified Chitosan Foam for Internal Surgical Hemostasis: Safety Evaluation in a Murine Model. *Journal of Surgical Research*, **2019**, 239, 269-277 2.5 10
- 36 Responsive capsules that enable hermetic encapsulation of contents and their thermally triggered burst-release. *Materials Horizons*, **2019**, 6, 1238-1243 14.4 10
- 35 Microstructural characteristics of surfactant assembly into a gel-like mesophase for application as an oil spill dispersant. *Journal of Colloid and Interface Science*, **2018**, 524, 279-288 9.3 10
- 34 "Killer" Microcapsules That Can Selectively Destroy Target Microparticles in Their Vicinity. *ACS Applied Materials & Interfaces*, **2016**, 8, 29688-29695 9.5 9
- 33 A shape-shifting composite hydrogel sheet with spatially patterned plasmonic nanoparticles. *Journal of Materials Chemistry B*, **2019**, 7, 1679-1683 7.3 9
- 32 The Unusual Rheology of Wormlike Micelles in Glycerol: Comparable Timescales for Chain Reptation and Segmental Relaxation. *Langmuir*, **2020**, 36, 6370-6377 4 8
- 31 Making a frothy shampoo or beer. *Physics Today*, **2010**, 63, 62-63 0.9 8
- 30 Assessment of surfactants for efficient droplet PCR in mineral oil using the pendant drop technique. *Colloids and Surfaces B: Biointerfaces*, **2015**, 126, 489-95 6 7
- 29 Rapid Electroformation of Biopolymer Gels in Prescribed Shapes and Patterns: A Simpler Alternative to 3-D Printing. *ACS Applied Materials & Interfaces*, **2019**, 11, 37103-37111 9.5 6
- 28 Cation-induced folding of alginate-bearing bilayer gels: an unusual example of spontaneous folding along the long axis. *Soft Matter*, **2018**, 14, 2735-2743 3.6 6
- 27 Chapter 2:Wormlike Micelles: Solutions, Gels, or Both?9-30 6
- 26 Single-Step Synthesis of Alginate Microgels Enveloped with a Covalent Polymeric Shell: A Simple Way to Protect Encapsulated Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 18432-18442 9.5 6
- 25 Does the Solvent in a Dispersant Impact the Efficiency of Crude-Oil Dispersion?. *Langmuir*, **2019**, 35, 16630-16639 4 8
- 24 Shape-Changing Tubular Hydrogels. *Gels*, **2018**, 4, 4.2 4
- 23 Surface-modified nanoerythrocytes for potential optical imaging diagnostics. *Journal of Colloid and Interface Science*, **2021**, 582, 246-253 9.3 4
- 22 Light-Triggered Rheological Changes in a System of Cationic Wormlike Micelles Formulated with a Photoacid Generator. *Langmuir*, **2020**, 36, 13408-13414 4 3

21	Liposomes Entrapped in Biopolymer Hydrogels Can Spontaneously Release into the External Solution. <i>Langmuir</i> , 2020 , 36, 7268-7276	4	3
20	How Do Amphiphilic Biopolymers Gel Blood? An Investigation Using Optical Microscopy. <i>Langmuir</i> , 2020 , 36, 8357-8366	4	3
19	Transformation of Lipid Vesicles into Micelles by Adding Nonionic Surfactants: Elucidating the Structural Pathway and the Intermediate Structures.. <i>Journal of Physical Chemistry B</i> , 2022 , 126, 2208-2214	3.4	3
18	Freestanding organogels by molecular velcro of unsaturated amphiphiles. <i>Soft Matter</i> , 2019 , 15, 6263-6268	3.6	2
17	Catalyst-Loaded Capsules that Spontaneously Inflate and Violently Eject their Core. <i>Langmuir</i> , 2019 , 35, 13718-13726	4	2
16	Titelbild: Sugar-Derived Phase-Selective Molecular Gelators as Model Solidifiers for Oil Spills (Angew. Chem. 42/2010). <i>Angewandte Chemie</i> , 2010 , 122, 7761-7761	3.6	2
15	Cover Picture: Sugar-Derived Phase-Selective Molecular Gelators as Model Solidifiers for Oil Spills (Angew. Chem. Int. Ed. 42/2010). <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7597-7597	16.4	2
14	Foams with Enhanced Rheology for Stopping Bleeding. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13958-13967	9.5	2
13	Spontaneous Formation of Stable Vesicles and Vesicle Gels in Polar Organic Solvents. <i>Langmuir</i> , 2021 , 37, 7955-7965	4	2
12	Clustering of Cyclodextrin-Functionalized Microbeads by an Amphiphilic Biopolymer: Real-Time Observation of Structures Resembling Blood Clots. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37238-37245	8.5	1.5
11	Liposomal nanoprobe that combine anti-EGFR antibodies and MRI contrast agents: synthesis and in vitro characterization. <i>RSC Advances</i> , 2014 , 4, 33756	3.7	1
10	Capsules as Miniature Factories: On-Demand Synthesis in Prepackaged Capsules Enabled by Switching on a Catalytic Reaction. <i>Advanced Functional Materials</i> , 2110191	15.6	1
9	Using Microemulsion Phase Behavior as a Predictive Model for Lecithin-Tween 80 Marine Oil Dispersant Effectiveness. <i>Langmuir</i> , 2021 , 37, 8115-8128	4	1
8	A Simple Way to Synthesize a Protective "Skin" around Any Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37645-37654	9.5	1
7	Multilayer tubes that constrict, dilate, and curl in response to stimuli. <i>Soft Matter</i> , 2021 , 17, 4180-4190	3.6	1
6	Hydrophobically modified chitosan biopolymer connects halloysite nanotubes at the oil-water interface as complementary pair for stabilizing oil droplets.. <i>Journal of Colloid and Interface Science</i> , 2022 , 620, 135-143	9.3	1
5	Phase-Selective Gelation of the Water Phase in an Oil-Water Mixture: An Approach Based on Oil-Activated Nanoparticle Assembly in Water. <i>Langmuir</i> , 2021 , 37, 8107-8114	4	0
4	Rheological Properties of Cartilage Glycosaminoglycans and Proteoglycans. <i>Macromolecules</i> , 2021 , 54, 2316-2324	5.5	0

- 3 Self-Assembling Gels of a Hydrophobically Modified Biopolymer. *Materials Research Society Symposia Proceedings*, **2014**, 1622, 69-78
- 2 Network Formation in Mixed Surfactant Systems. *Microscopy and Microanalysis*, **2004**, 10, 434-435 0.5
- 1 Capsules with Concentric Biopolymer-Nylon Shells Imaged by Cryo-FIB/SEM. *Microscopy and Microanalysis*, **2021**, 27, 542-544 0.5