Walter Richtering

List of Publications by Year
in descending order

324 papers	17,083 citations	13099 68 h-index	22832 112 g-index
343 all docs	343 docs citations	343 times ranked	11443 citing authors

#	Article	IF	Citations
1	Temperature sensitive microgel suspensions: Colloidal phase behavior and rheology of soft spheres. Journal of Chemical Physics, 1999, 111, 1705-1711.	3.0	602
2	Controlling Shear Stress in 3D Bioprinting is a Key Factor to Balance Printing Resolution and Stem Cell Integrity. Advanced Healthcare Materials, 2016, 5, 326-333.	7.6	571
3	Functional Microgels and Microgel Systems. Accounts of Chemical Research, 2017, 50, 131-140.	15.6	537
4	Small-angle neutron scattering study of structural changes in temperature sensitive microgel colloids. Journal of Chemical Physics, 2004, 120, 6197-6206.	3.0	501
5	Nanogels and Microgels: From Model Colloids to Applications, Recent Developments, and Future Trends. Langmuir, 2019, 35, 6231-6255.	3.5	395
6	Influence of cross-link density on rheological properties of temperature-sensitive microgel suspensions. Colloid and Polymer Science, 2000, 278, 830-840.	2.1	317
7	Nanoparticle-Based Test Measures Overall Propensity for Calcification in Serum. Journal of the American Society of Nephrology: JASN, 2012, 23, 1744-1752.	6.1	275
8	Are Thermoresponsive Microgels Model Systems for Concentrated Colloidal Suspensions? A Rheology and Small-Angle Neutron Scattering Study. Langmuir, 2004, 20, 7283-7292.	3.5	247
9	Responsive Emulsions Stabilized by Stimuli-Sensitive Microgels: Emulsions with Special Non-Pickering Properties. Langmuir, 2012, 28, 17218-17229.	3.5	247
10	Doubly Temperature Sensitive Coreâ^'Shell Microgels. Macromolecules, 2003, 36, 8780-8785.	4.8	229
11	Precise measurement of diffusion by multi-color dual-focus fluorescence correlation spectroscopy. Europhysics Letters, 2008, 83, 46001.	2.0	229
12	Hierarchical Role of Fetuin-A and Acidic Serum Proteins in the Formation and Stabilization of Calcium Phosphate Particles. Journal of Biological Chemistry, 2008, 283, 14815-14825.	3.4	194
13	Microgels as Stimuli-Responsive Stabilizers for Emulsions. Langmuir, 2008, 24, 12202-12208.	3.5	182
14	Magnetic, Thermosensitive Microgels as Stimuliâ€Responsive Emulsifiers Allowing for Remote Control of Separability and Stability of Oil in Waterâ€Emulsions. Advanced Materials, 2007, 19, 2973-2978.	21.0	181
15	Unraveling the 3D Localization and Deformation of Responsive Microgels at Oil/Water Interfaces: A Step Forward in Understanding Soft Emulsion Stabilizers. Langmuir, 2012, 28, 15770-15776.	3.5	178
16	Structure of Multiresponsive â€œIntelligentâ€•Coreâ^'Shell Microgels. Journal of the American Chemical Society, 2005, 127, 9372-9373.	13.7	174
17	Microgelâ€Stabilized Smart Emulsions for Biocatalysis. Angewandte Chemie - International Edition, 2013, 52, 576-579.	13.8	173
18	Rheology of a Temperature Sensitive Coreâ^'Shell Latex. Langmuir, 1999, 15, 102-106.	3.5	162

#	Article	IF	Citations
19	Temperature-Sensitive Coreâ€“Shell Microgel Particles with Dense Shell. Angewandte Chemie - International Edition, 2006, 45, 1737-1741.	13.8	155
20	Microgels by Precipitation Polymerization: Synthesis, Characterization, and Functionalization. Advances in Polymer Science, 2010, , 1-37.	0.8	150
21	Emulsions Stabilized by Stimuli-Sensitive Poly(<i>N</i>-isopropylacrylamide)-<i>co</i>-Methacrylic Acid Polymers: Microgels versus Low Molecular Weight Polymers. Langmuir, 2008, 24, 7769-7777.	3.5	147
22	Influence of Microgel Architecture and Oil Polarity on Stabilization of Emulsions by Stimuli-Sensitive Coreâ€“Shell Poly(<i>N</i>-isopropylacrylamide-<i>co</i>-methacrylic acid) Microgels: Mickering versus Pickering Behavior?. Langmuir, 2011, 27, 9801-9806.	3.5	145
23	Dual-stimuli responsive PNiPAM microgel achieved via layer-by-layer assembly: Magnetic and thermoresponsive. Journal of Colloid and Interface Science, 2008, 324, 47-54.	9.4	127
24	Cononsolvency of poly-N-isopropyl acrylamide (PNIPAM): Microgels versus linear chains and macrogels. Current Opinion in Colloid and Interface Science, 2014, 19, 84-94.	7.4	125
25	Adsorption of microgels at an oilâ€“water interface: correlation between packing and 2D elasticity. Soft Matter, 2014, 10, 6963-6974.	2.7	123
26	Influence of Shell Thickness and Cross-Link Density on the Structure of Temperature-Sensitive Poly-N-Isopropylacrylamideâ^'Poly-N-Isopropylmethacrylamide Coreâ^'Shell Microgels Investigated by Small-Angle Neutron Scattering. Langmuir, 2006, 22, 459-468.	3.5	122
27	Title is missing!. Die Makromolekulare Chemie, 1988, 189, 911-925.	1.1	121
28	Shear-Induced Formation of Multilamellar Vesicles (â€œOnionsâ€) in Block Copolymers. Langmuir, 1999, 15, 2599-2602.	3.5	114
29	Magnesium ions and alginate do form hydrogels: a rheological study. Soft Matter, 2012, 8, 4877.	2.7	114
30	Interfacial layers of stimuli-responsive poly-(N-isopropylacrylamide-co-methacrylicacid) (PNIPAM-co-MAA) microgels characterized by interfacial rheology and compression isotherms. Physical Chemistry Chemical Physics, 2010, 12, 14573.	2.8	111
31	Dual-Stimuli-Sensitive Microgels as a Tool for Stimulated Spongelike Adsorption of Biomaterials for Biosensor Applications. Biomacromolecules, 2014, 15, 3735-3745.	5.4	110
32	Mechanics versus Thermodynamics: Swelling in Multiple-Temperature-Sensitive Coreâ€“Shell Microgels. Angewandte Chemie - International Edition, 2006, 45, 1081-1085.	13.8	103
33	Non-coalescence of oppositely charged droplets in pH-sensitive emulsions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 384-389.	7.1	103
34	Temperature Sensitive Copolymer Microgels with Nanophase Separated Structure. Journal of the American Chemical Society, 2009, 131, 3093-3097.	13.7	100
35	Polyampholyte Microgels with Anionic Core and Cationic Shell. Macromolecules, 2010, 43, 4331-4339.	4.8	100
36	Fully Tunable Silicon Nanowire Arrays Fabricated by Soft Nanoparticle Templating. Nano Letters, 2016, 16, 157-163.	9.1	98

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37	The Colloidal Suprastructure of Smart Microgels at Oilâ€"Water Interfaces. Angewandte Chemie - International Edition, 2009, 48, 3978-3981.	13.8	97
38	Gel architectures and their complexity. Soft Matter, 2014, 10, 3695-3702.	2.7	97
39	Isostructural solidâ€"solid phase transition in monolayers of soft coreâ€"shell particles at fluid interfaces: structure and mechanics. Soft Matter, 2016, 12, 3545-3557.	2.7	97
40	Influence of Polymerization Conditions on the Structure of Temperature-Sensitive Poly(N-isopropylacrylamide) Microgels. Macromolecules, 2005, 38, 1517-1519.	4.8	96
41	Hollow and Coreâ€"Shell Microgels at Oilâ€"Water Interfaces: Spreading of Soft Particles Reduces the Compressibility of the Monolayer. Langmuir, 2015, 31, 13145-13154.	3.5	93
42	Poly(N-isopropylacrylamide) microgels at the oilâ€"water interface: adsorption kinetics. Soft Matter, 2013, 9, 9939.	2.7	92
43	Cononsolvency of Poly(<i>N</i>,<i>N</i>-diethylacrylamide) (PDEAAM) and Poly(<i>N</i>-isopropylacrylamide) (PNIPAM) Based Microgels in Water/Methanol Mixtures: Copolymer vs Coreâˆ'Shell Microgel. Macromolecules, 2010, 43, 6829-6833.	4.8	91
44	Interplay between Hydrogen Bonding and Macromolecular Architecture Leading to Unusual Phase Behavior in Thermosensitive Microgels. Angewandte Chemie - International Edition, 2008, 47, 338-341.	13.8	90
45	Layer-by-Layer Assembly of Polyelectrolyte Multilayers on Thermoresponsive P(NiPAM-<i>co</i>-MAA) Microgel: Effect of Ionic Strength and Molecular Weight. Macromolecules, 2009, 42, 1229-1238.	4.8	90
46	3D Structures of Responsive Nanocompartmentalized Microgels. Nano Letters, 2016, 16, 7295-7301.	9.1	90
47	Time-resolved structural evolution during the collapse of responsive hydrogels: The microgel-to-particle transition. Science Advances, 2018, 4, eaao7086.	10.3	90
48	Exploring the colloid-to-polymer transition for ultra-low crosslinked microgels from three to two dimensions. Nature Communications, 2019, 10, 1418.	12.8	90
49	Multi-Shell Hollow Nanogels with Responsive Shell Permeability. Scientific Reports, 2016, 6, 22736.	3.3	89
50	Electrostatic Interactions and Osmotic Pressure of Counterions Control the pH-Dependent Swelling and Collapse of Polyampholyte Microgels with Random Distribution of Ionizable Groups. Macromolecules, 2015, 48, 5914-5927.	4.8	88
51	Structural Ordering and Phase Behavior of Charged Microgels. Journal of Physical Chemistry B, 2008, 112, 14692-14697.	2.6	87
52	Temperature dependent phase behavior of PNIPAM microgels in mixed water/methanol solvents. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1100-1111.	2.1	87
53	Hydrodynamic and Colloidal Interactions in Concentrated Charge-Stabilized Polymer Dispersions. Journal of Colloid and Interface Science, 2000, 225, 166-178.	9.4	86
54	Rheology and shear induced structures in surfactant solutions. Current Opinion in Colloid and Interface Science, 2001, 6, 446-450.	7.4	86

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55	Shape-Selective Synthesis of Palladium Nanoparticles Stabilized by Highly Branched Amphiphilic Polymers. Advanced Functional Materials, 2004, 14, 999-1004.	14.9	81
56	Thermodynamic and hydrodynamic interaction in concentrated microgel suspensions: Hard or soft sphere behavior?. Journal of Chemical Physics, 2008, 129, 124902.	3.0	81
57	Does Floryâ€"Rehner theory quantitatively describe the swelling of thermoresponsive microgels?. Soft Matter, 2017, 13, 8271-8280.	2.7	80
58	Pathway of the Shear-Induced Transition between Planar Lamellae and Multilamellar Vesicles as Studied by Time-Resolved Scattering Techniques. Langmuir, 2003, 19, 3603-3618.	3.5	79
59	Influence of Shear on Lyotropic Lamellar Phases with Different Membrane Defects. Journal of Physical Chemistry B, 1999, 103, 2841-2849.	2.6	78
60	Influence of Architecture on the Interaction of Negatively Charged Multisensitive Poly(<i>N</i>-isopropylacrylamide)-<i>co</i>-Methacrylic Acid Microgels with Oppositely Charged Polyelectrolyte: Absorption vs Adsorption. Langmuir, 2010, 26, 11258-11265.	3.5	78
61	The Compressibility of pHâ€Sensitive Microgels at the Oilâ€"Water Interface: Higher Charge Leads to Less Repulsion. Angewandte Chemie - International Edition, 2014, 53, 4905-4909.	13.8	78
62	Nonionic Amphiphilic Bilayer Structures under Shear. Langmuir, 2001, 17, 999-1008.	3.5	76
63	Cononsolvency Revisited: Solvent Entrapment by <i>N</i>-Isopropylacrylamide and <i>N</i>,<i>N</i>-Diethylacrylamide Microgels in Different Water/Methanol Mixtures. Macromolecules, 2013, 46, 523-532.	4.8	73
64	Shear induced structures in lamellar phases of amphiphilic block copolymers. Physical Chemistry Chemical Physics, 1999, 1, 3905-3910.	2.8	72
65	Cylindrical intermediates in a shear-induced lamellar-to-vesicle transition. Europhysics Letters, 2001, 53, 335-341.	2.0	72
66	Nanoscopic Visualization of Crossâ€Linking Density in Polymer Networks with Diarylethene Photoswitches. Angewandte Chemie - International Edition, 2018, 57, 12280-12284.	13.8	72
67	Layer-by-layer assembly of a magnetic nanoparticle shell on a thermoresponsive microgel core. Journal of Magnetism and Magnetic Materials, 2007, 311, 219-223.	2.3	70
68	Shear-induced orientations in a lyotropic defective lamellar phase. Europhysics Letters, 1998, 43, 683-689.	2.0	69
69	Magnetic Capsules and Pickering Emulsions Stabilized by Coreâ^'Shell Particles. Langmuir, 2009, 25, 7335-7341.	3.5	69
70	The special behaviours of responsive coreâ€"shell nanogels. Soft Matter, 2012, 8, 11423.	2.7	69
71	Layer-by-layer assembly on stimuli-responsive microgels. Current Opinion in Colloid and Interface Science, 2008, 13, 403-412.	7.4	68
72	Hyperbranched Polymers:Â Structure of Hyperbranched Polyglycerol and Amphiphilic Poly(glycerol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.8	67

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73	Synergistic depression of volume phase transition temperature in copolymer microgels. Colloid and Polymer Science, 2006, 285, 471-474.	2.1	67
74	Persulfate initiated ultra-low cross-linked poly(N-isopropylacrylamide) microgels possess an unusual inverted cross-linking structure. Soft Matter, 2016, 12, 3919-3928.	2.7	67
75	Light scattering from aqueous solutions of a nonionic surfactant (C14E8) in a wide concentration range. The Journal of Physical Chemistry, 1988, 92, 6032-6040.	2.9	66
76	Dynamic light scattering from polymer solutions. , 1989, , 151-163.		66
77	Shear-Induced Phase Separation in Aqueous Polymer Solutions:Â Temperature-Sensitive Microgels and Linear Polymer Chains. Macromolecules, 2003, 36, 8811-8818.	4.8	66
78	The role of the N-terminal domain in dimerization and nucleocytoplasmic shuttling of latent STAT3. Journal of Cell Science, 2011, 124, 900-909.	2.0	66
79	Highly ordered 2D microgel arrays: compression versus self-assembly. Soft Matter, 2014, 10, 7968-7976.	2.7	66
80	Coreâ€“Shellâ€“Shell and Hollow Doubleâ€Shell Microgels with Advanced Temperature Responsiveness. Macromolecular Rapid Communications, 2015, 36, 159-164.	3.9	66
81	Compression and deposition of microgel monolayers from fluid interfaces: particle size effects on interface microstructure and nanolithography. Physical Chemistry Chemical Physics, 2017, 19, 8671-8680.	2.8	66
82	Gel point in physical gels: rheology and light scattering from thermoreversibly gelling schizophyllan. Polymer Gels and Networks, 1998, 5, 541-559.	0.6	64
83	Shear Orientation of a Hexagonal Lyotropic Triblock Copolymer Phase As Probed by Flow Birefringence and Small-Angle Light and Neutron Scattering. Macromolecules, 1998, 31, 2293-2298.	4.8	64
84	Copolymer Microgels from Mono- and Disubstituted Acrylamides: Phase Behavior and Hydrogen Bonds. Macromolecules, 2008, 41, 6830-6836.	4.8	63
85	Shear Orientation of Lyotropic Hexagonal Phases. Journal of Physical Chemistry B, 1998, 102, 507-513.	2.6	62
86	Structureâ^'Property Relationship in Stimulus-Responsive Bolaamphiphile Hydrogels. Langmuir, 2007, 23, 7715-7723.	3.5	61
87	From Batch to Continuous Precipitation Polymerization of Thermoresponsive Microgels. ACS Applied Materials & Interfaces, 2018, 10, 24799-24806.	8.0	61
88	Influence of Water-Soluble Polymers on the Shear-Induced Structure Formation in Lyotropic Lamellar Phases. Journal of Physical Chemistry B, 2001, 105, 11081-11088.	2.6	60
89	Deswelling of Microgels in Crowded Suspensions Depends on Cross-Link Density and Architecture. Macromolecules, 2019, 52, 3995-4007.	4.8	60
90	Nanoparticles in the Biological Context: Surface Morphology and Protein Corona Formation. Small, 2020, 16, e2002162.	10.0	60

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91	Swelling of a Responsive Network within Different Constraints in Multi-Thermosensitive Microgels. Macromolecules, 2018, 51, 2662-2671.	4.8	58
92	Mechanical properties of temperature sensitive microgel/polyacrylamide composite hydrogelsâ€"from soft to hard fillers. Soft Matter, 2012, 8, 4254.	2.7	57
93	How Hollow Are Thermoresponsive Hollow Nanogels?. Macromolecules, 2014, 47, 8700-8708.	4.8	56
94	Poly(N-isopropylacrylamide) microgels at the oilâ€"water interface: temperature effect. Soft Matter, 2014, 10, 6182-6191.	2.7	56
95	Fundamental Study of Emulsions Stabilized by Soft and Rigid Particles. Langmuir, 2015, 31, 6282-6288.	3.5	56
96	Effect of brighteners on hydrogen evolution during zinc electroplating from zincate electrolytes. Journal of Applied Electrochemistry, 1998, 28, 1107-1112.	2.9	53
97	Polymer dynamics in responsive microgels: influence of cononsolvency and microgel architecture. Physical Chemistry Chemical Physics, 2012, 14, 2762.	2.8	53
98	Mixing of Two Immiscible Liquids within the Polymer Microgel Adsorbed at Their Interface. ACS Macro Letters, 2016, 5, 612-616.	4.8	53
99	An anionic shell shields a cationic core allowing for uptake and release of polyelectrolytes within coreâ€"shell responsive microgels. Soft Matter, 2018, 14, 4287-4299.	2.7	52
100	Easy-Preparable Butyrylcholinesterase/Microgel Construct for Facilitated Organophosphate Biosensing. Analytical Chemistry, 2017, 89, 6091-6098.	6.5	51
101	Behavior of Temperature-Responsive Copolymer Microgels at the Oil/Water Interface. Langmuir, 2014, 30, 7660-7669.	3.5	50
102	Rheo-small-Angle-Light-Scattering Investigation of Shear-Induced Structural Changes in a Lyotropic Lamellar Phase. Journal of Colloid and Interface Science, 1996, 181, 521-529.	9.4	48
103	Relationship between short-time self-diffusion and high-frequency viscosity in charge-stabilized dispersions. Physical Review E, 1998, 58, R4088-R4091.	2.1	48
104	Coreâ^'Shell-Structured Highly Branched Poly(ethylenimine amide)s:Â Synthesis and Structure. Macromolecules, 2005, 38, 5914-5920.	4.8	48
105	Spatially Resolved Tracer Diffusion in Complex Responsive Hydrogels. Journal of the American Chemical Society, 2012, 134, 15963-15969.	13.7	48
106	Spontaneous Assembly of Miktoarm Stars into Vesicular Interpolyelectrolyte Complexes. Macromolecular Rapid Communications, 2013, 34, 855-860.	3.9	48
107	How Softness Matters in Soft Nanogels and Nanogel Assemblies. Chemical Reviews, 2022, 122, 11675-11700.	47.7	48
108	Effect of the 3D Swelling of Microgels on Their 2D Phase Behavior at the Liquidâ€"Liquid Interface. Langmuir, 2019, 35, 16780-16792.	3.5	47

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109	Progress in thick-film pad printing technique for solar cells. Solar Energy Materials and Solar Cells, 2001, 65, 399-407.	6.2	46
110	Influence of Shear on Solvated Amphiphilic Block Copolymers with Lamellar Morphology. Macromolecules, 2002, 35, 4064-4074.	4.8	46
111	Hollow microgels squeezed in overcrowded environments. Journal of Chemical Physics, 2018, 148, 174903.	3.0	46
112	Rheology and Shear Orientation of a Nematic Liquid Crystalline Side-Group Polymer with Laterally Attached Mesogenic Units. Macromolecules, 1997, 30, 7574-7581.	4.8	45
113	Solution Structure of Metal Particles Prepared in Unimolecular Reactors of Amphiphilic Hyperbranched Macromolecules. Macromolecules, 2004, 37, 7893-7900.	4.8	45
114	Cononsolvency of mono- and di-alkyl N-substituted poly(acrylamide)s and poly(vinyl caprolactam). Polymer, 2015, 62, 50-59.	3.8	45
115	A model describing the internal structure of core/shell hydrogels. Soft Matter, 2011, 7, 10327.	2.7	44
116	Tunable 2D binary colloidal alloys for soft nanotemplating. Nanoscale, 2018, 10, 22189-22195.	5.6	44
117	Formation and stability kinetics of calcium phosphateâ€“fetuin-A colloidal particles probed by time-resolved dynamic light scattering. Soft Matter, 2011, 7, 2869.	2.7	43
118	New Insight into Microgel-Stabilized Emulsions Using Transmission X-ray Microscopy: Nonuniform Deformation and Arrangement of Microgels at Liquid Interfaces. Langmuir, 2015, 31, 83-89.	3.5	43
119	Synthesis and structure of deuterated ultra-low cross-linked poly(<i>N</i>-isopropylacrylamide) microgels. Polymer Chemistry, 2019, 10, 2397-2405.	3.9	43
120	Electrochemical reactivity of ordered and disordered nâ€GaAs(110) surfaces. A combined XPS, LEED and electrochemical study. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1987, 91, 412-416.	0.9	42
121	Comparison of the Effective Radius of Sterically Stabilized Latex Particles Determined by Small-Angle X-ray Scattering and by Zero Shear Viscosity. Langmuir, 1998, 14, 5083-5087.	3.5	42
122	Rheo-optical investigations of lyotropic mesophases of polymeric surfactants. Rheologica Acta, 1999, 38, 486-494.	2.4	42
123	Rearrangements in and Release from Responsive Microgelâˆ'Polyelectrolyte Complexes Induced by Temperature and Time. Journal of Physical Chemistry B, 2011, 115, 3804-3810.	2.6	42
124	Toward Copolymers with Ideal Thermosensitivity: Solution Properties of Linear, Well-Defined Polymers of <i>N</i>-Isopropyl Acrylamide and <i>N</i>,<i>N</i>-Diethyl Acrylamide. Macromolecules, 2012, 45, 8021-8026.	4.8	42
125	Unperturbed Volume Transition of Thermosensitive Poly-(<i>N</i>-isopropylacrylamide) Microgel Particles Embedded in a Hydrogel Matrix. Journal of Physical Chemistry B, 2008, 112, 6309-6314.	2.6	41
126	Polyelectrolyte microgels based on poly-N-isopropylacrylamide: influence of charge density on microgel properties, binding of poly-diallyldimethylammonium chloride, and properties of polyelectrolyte complexes. Colloid and Polymer Science, 2011, 289, 739-749.	2.1	41

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127	Cononsolvency of Water/Methanol Mixtures for PNIPAM and PS-<i>b</i>-PNIPAM: Pathway of Aggregate Formation Investigated Using Time-Resolved SANS. Macromolecules, 2014, 47, 6867-6879.	4.8	40
128	Cononsolvency Effects on the Structure and Dynamics of Microgels. Macromolecules, 2014, 47, 5982-5988.	4.8	40
129	Kinetics and particle size control in non-stirred precipitation polymerization of N-isopropylacrylamide. Colloid and Polymer Science, 2014, 292, 1743-1756.	2.1	40
130	Polymers in focus: fluorescence correlation spectroscopy. Colloid and Polymer Science, 2014, 292, 2399-2411.	2.1	39
131	Engineering Systems with Spatially Separated Enzymes via Dual-Stimuli-Sensitive Properties of Microgels. Langmuir, 2015, 31, 13029-13039.	3.5	39
132	Amphiphilic Arborescent Copolymers and Microgels: From Unimolecular Micelles in a Selective Solvent to the Stable Monolayers of Variable Density and Nanostructure at a Liquid Interface. ACS Applied Materials & Interfaces, 2017, 9, 31302-31316.	8.0	39
133	Stiffness Tomography of Ultraâ€Soft Nanogels by Atomic Force Microscopy. Angewandte Chemie - International Edition, 2021, 60, 2280-2287.	13.8	39
134	Reversible size of shear-induced multi-lamellar vesicles. Colloid and Polymer Science, 2005, 284, 317-321.	2.1	38
135	Size and viscoelasticity of spatially confined multilamellar vesicles. European Physical Journal E, 2006, 19, 139-148.	1.6	38
136	Magnetic Nanoparticles Encapsulated Within a Thermoresponsive Polymer. Journal of Nanoscience and Nanotechnology, 2009, 9, 5355-5361.	0.9	38
137	Distribution of Ionizable Groups in Polyampholyte Microgels Controls Interactions with Captured Proteins: From Blockade and â€œLevitationâ€•to Accelerated Release. Biomacromolecules, 2019, 20, 1578-1591.	5.4	38
138	Shear Orientation of a Micellar Hexagonal Liquid Crystalline Phase: A Rheo and Small Angle Light Scattering Study. Langmuir, 1994, 10, 4374-4379.	3.5	37
139	Defined Complexes of Negatively Charged Multisensitive Poly(<i>N</i>-isopropylacrylamide-<i>co</i>-methacrylic acid) Microgels and Poly(diallydimethylammonium chloride). Macromolecules, 2008, 41, 1785-1790.	4.8	37
140	Magnetic Nanoparticleâ€“Polyelectrolyte Interaction: A Layered Approach for Biomedical Applications. Journal of Nanoscience and Nanotechnology, 2008, 8, 4033-4040.	0.9	37
141	Could multiresponsive hollow shellâ€“shell nanocontainers offer an improved strategy for drug delivery?. Nanomedicine, 2016, 11, 2879-2883.	3.3	37
142	Waterborne physically crosslinked antimicrobial nanogels. Polymer Chemistry, 2016, 7, 364-369.	3.9	37
143	Direct Evidence of Layer-by-Layer Assembly of Polyelectrolyte Multilayers on Soft and Porous Temperature-Sensitive PNiPAM Microgel Using Fluorescence Correlation Spectroscopyâ€. Journal of Physical Chemistry B, 2007, 111, 8527-8531.	2.6	36
144	Composite hydrogels with temperature sensitive heterogeneities: influence of gel matrix on the volume phase transition of embedded poly-(N-isopropylacrylamide) microgels. Physical Chemistry Chemical Physics, 2011, 13, 3039-3047.	2.8	36

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145	Quaternized microgels as soft templates for polyelectrolyte layer-by-layer assemblies. Polymer, 2014, 55, 1991-1999.	3.8	36
146	Probing the Internal Heterogeneity of Responsive Microgels Adsorbed to an Interface by a Sharp SFM Tip: Comparing Coreâ€“Shell and Hollow Microgels. Langmuir, 2018, 34, 4150-4158.	3.5	36
147	Surface Functionalization by Stimuli-Sensitive Microgels for Effective Enzyme Uptake and Rational Design of Biosensor Setups. Polymers, 2018, 10, 791.	4.5	36
148	Anisotropic Hollow Microgels That Can Adapt Their Size, Shape, and Softness. Nano Letters, 2019, 19, 8161-8170.	9.1	36
149	Influence of Size and Cross-Linking Density of Microgels on Cellular Uptake and Uptake Kinetics. Biomacromolecules, 2020, 21, 4532-4544.	5.4	36
150	Anisotropic Small Angle Light and Neutron Scattering from a Lyotropic Lamellar Phase under Shear. Journal De Physique II, 1996, 6, 529-542.	0.9	36
151	Polyelectrolyte coating of iron oxide nanoparticles for MRI-based cell tracking. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 682-691.	3.3	35
152	Conformational changes upon high pressure induced hydration of poly(N-isopropylacrylamide) microgels. Soft Matter, 2013, 9, 5862.	2.7	35
153	Microgel stabilized emulsions: Breaking on demand. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 495, 193-199.	4.7	35
154	Surface stoichiometric changes of n-GaAs after anodic treatment: An XPS study. Surface Science, 1986, 169, 414-424.	1.9	34
155	Influence of polyelectrolyte multilayer adsorption on the temperature sensitivity of poly(N-isopropylacrylamide) (PNiPAM) microgels. Colloid and Polymer Science, 2004, 282, 1146-1149.	2.1	34
156	Influence of pressure on the state of poly(N-isopropylacrylamide) and poly(N,N-diethylacrylamide) derived polymers in aqueous solution as probed by FTIR-spectroscopy. Polymer, 2010, 51, 3653-3659.	3.8	34
157	Oscillatory rheology of carboxymethyl cellulose gels: Influence of concentration and pH. Carbohydrate Polymers, 2021, 267, 118117.	10.2	34
158	Linear and nonlinear rheology of micellar solutions in the isotropic, cubic and hexagonal phase probed by rheo-small-angle light scattering. Rheologica Acta, 1995, 34, 440-449.	2.4	33
159	Calibrating Differential Interference Contrast Microscopy with dual-focus Fluorescence Correlation Spectroscopy. Optics Express, 2008, 16, 4322.	3.4	32
160	Dual-focus fluorescence correlation spectroscopy: a robust tool for studying molecular crowding. Soft Matter, 2009, 5, 1358.	2.7	32
161	Thermoresponsive Copolymer Hydrogels on the Basis of <i>N</i>-Isopropylacrylamide and a Non-Ionic Surfactant Monomer: Swelling Behavior, Transparency and Rheological Properties. Macromolecules, 2010, 43, 9964-9971.	4.8	32
162	Influence of divalent counterions on the solution rheology and supramolecular aggregation of carboxymethyl cellulose. Cellulose, 2019, 26, 1517-1534.	4.9	32

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