Walter Richtering

List of Publications by Citations

316 papers	14,100 citations	65 h-index	103 g-index
343 ext. papers	15,645 ext. citations	5.6 avg, IF	6.94 L-index

#	Paper	IF	Citations
316	Temperature sensitive microgel suspensions: Colloidal phase behavior and rheology of soft spheres. *Journal of Chemical Physics*, **1999**, 111, 1705-1711	3.9	560
315	Small-angle neutron scattering study of structural changes in temperature sensitive microgel colloids. *Journal of Chemical Physics*, **2004**, 120, 6197-206	3.9	426
314	Controlling Shear Stress in 3D Bioprinting is a Key Factor to Balance Printing Resolution and Stem Cell Integrity. *Advanced Healthcare Materials*, **2016**, 5, 326-33	10.1	390
313	Functional Microgels and Microgel Systems. *Accounts of Chemical Research*, **2017**, 50, 131-140	24.3	360
312	Influence of cross-link density on rheological properties of temperature-sensitive microgel suspensions. *Colloid and Polymer Science*, **2000**, 278, 830-840	2.4	290
311	Are thermoresponsive microgels model systems for concentrated colloidal suspensions? A rheology and small-angle neutron scattering study. *Langmuir*, **2004**, 20, 7283-92	4	221
310	Doubly Temperature Sensitive Core−Shell Microgels. *Macromolecules*, **2003**, 36, 8780-8785	5.5	221
309	Nanogels and Microgels: From Model Colloids to Applications, Recent Developments, and Future Trends. *Langmuir*, **2019**, 35, 6231-6255	4	220
308	Responsive emulsions stabilized by stimuli-sensitive microgels: emulsions with special non-Pickering properties. *Langmuir*, **2012**, 28, 17218-29	4	209
307	Nanoparticle-based test measures overall propensity for calcification in serum. *Journal of the American Society of Nephrology: JASN*, **2012**, 23, 1744-52	12.7	202
306	Precise measurement of diffusion by multi-color dual-focus fluorescence correlation spectroscopy. *Europhysics Letters*, **2008**, 83, 46001	1.6	197
305	Magnetic, Thermosensitive Microgels as Stimuli-Responsive Emulsifiers Allowing for Remote Control of Separability and Stability of Oil in Water-Emulsions. *Advanced Materials*, **2007**, 19, 2973-2978	24	166
304	Structure of multiresponsive "intelligent" core-shell microgels. *Journal of the American Chemical Society*, **2005**, 127, 9372-3	16.4	161
303	Unraveling the 3D localization and deformation of responsive microgels at oil/water interfaces: a step forward in understanding soft emulsion stabilizers. *Langmuir*, **2012**, 28, 15770-6	4	157
302	Hierarchical role of fetuin-A and acidic serum proteins in the formation and stabilization of calcium phosphate particles. *Journal of Biological Chemistry*, **2008**, 283, 14815-25	5.4	157
301	Microgels as stimuli-responsive stabilizers for emulsions. *Langmuir*, **2008**, 24, 12202-8	4	156
300	Rheology of a Temperature Sensitive Core−Shell Latex. *Langmuir*, **1999**, 15, 102-106	4	156

299	Temperature-sensitive core-shell microgel particles with dense shell. *Angewandte Chemie - International Edition*, **2006**, 45, 1737-41	16.4	149
298	Microgel-stabilized smart emulsions for biocatalysis. *Angewandte Chemie - International Edition*, **2013**, 52, 576-9	16.4	144
297	Emulsions stabilized by stimuli-sensitive poly(N-isopropylacrylamide)-co-methacrylic acid polymers: microgels versus low molecular weight polymers. *Langmuir*, **2008**, 24, 7769-77	4	136
296	Microgels by Precipitation Polymerization: Synthesis, Characterization, and Functionalization. *Advances in Polymer Science*, **2010**, 1-37	1.3	128
295	Influence of microgel architecture and oil polarity on stabilization of emulsions by stimuli-sensitive core-shell poly(N-isopropylacrylamide-co-methacrylic acid) microgels: Mickering versus Pickering behavior?. *Langmuir*, **2011**, 27, 9801-6	4	118
294	Dual-stimuli responsive PNiPAM microgel achieved via layer-by-layer assembly: magnetic and thermoresponsive. *Journal of Colloid and Interface Science*, **2008**, 324, 47-54	9.3	118
293	Influence of shell thickness and cross-link density on the structure of temperature-sensitive poly-N-isopropylacrylamide-poly-N-isopropylmethacrylamide core-shell microgels investigated by small-angle neutron scattering. *Langmuir*, **2006**, 22, 459-68	4	115
292	Melting, crystallization, and solution behavior of chain molecules with hydrocarbon and fluorocarbon segments. *Die Makromolekulare Chemie*, **1988**, 189, 911-925		111
291	Shear-Induced Formation of Multilamellar Vesicles (Onions) in Block Copolymers. *Langmuir*, **1999**, 15, 2599-2602	4	108
290	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, 14573-8	3.6	104
289	Cononsolvency of poly-N-isopropyl acrylamide (PNIPAM): Microgels versus linear chains and macrogels. *Current Opinion in Colloid and Interface Science*, **2014**, 19, 84-94	7.6	101
288	Mechanics versus thermodynamics: swelling in multiple-temperature-sensitive core-shell microgels. *Angewandte Chemie - International Edition*, **2006**, 45, 1081-5	16.4	99
287	Adsorption of microgels at an oil-water interface: correlation between packing and 2D elasticity. *Soft Matter*, **2014**, 10, 6963-74	3.6	97
286	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, 384-9	11.5	94
285	Polyampholyte Microgels with Anionic Core and Cationic Shell. *Macromolecules*, **2010**, 43, 4331-4339	5.5	93
284	Dual-stimuli-sensitive microgels as a tool for stimulated spongelike adsorption of biomaterials for biosensor applications. *Biomacromolecules*, **2014**, 15, 3735-45	6.9	91
283	Influence of Polymerization Conditions on the Structure of Temperature-Sensitive Poly(N-isopropylacrylamide) Microgels. *Macromolecules*, **2005**, 38, 1517-1519	5.5	91
282	The colloidal suprastructure of smart microgels at oil-water interfaces. *Angewandte Chemie - International Edition*, **2009**, 48, 3978-81	16.4	89

281	Temperature sensitive copolymer microgels with nanophase separated structure. *Journal of the American Chemical Society*, **2009**, 131, 3093-7	16.4	88
280	Magnesium ions and alginate do form hydrogels: a rheological study. *Soft Matter*, **2012**, 8, 4877	3.6	87
279	Gel architectures and their complexity. *Soft Matter*, **2014**, 10, 3695-702	3.6	84
278	Cononsolvency of Poly(N,N-diethylacrylamide) (PDEAAM) and Poly(N-isopropylacrylamide) (PNIPAM) Based Microgels in Water/Methanol Mixtures: Copolymer vs Core□Shell Microgel. *Macromolecules*, **2010**, 43, 6829-6833	5.5	84
277	Layer-by-Layer Assembly of Polyelectrolyte Multilayers on Thermoresponsive P(NiPAM-co-MAA) Microgel: Effect of Ionic Strength and Molecular Weight. *Macromolecules*, **2009**, 42, 1229-1238	5.5	84
276	Interplay between hydrogen bonding and macromolecular architecture leading to unusual phase behavior in thermosensitive microgels. *Angewandte Chemie - International Edition*, **2008**, 47, 338-41	16.4	84
275	Fully Tunable Silicon Nanowire Arrays Fabricated by Soft Nanoparticle Templating. *Nano Letters*, **2016**, 16, 157-63	11.5	81
274	Temperature dependent phase behavior of PNIPAM microgels in mixed water/methanol solvents. *Journal of Polymer Science, Part B: Polymer Physics*, **2013**, 51, 1100-1111	2.6	79
273	Rheology and shear induced structures in surfactant solutions. *Current Opinion in Colloid and Interface Science*, **2001**, 6, 446-450	7.6	79
272	Structural ordering and phase behavior of charged microgels. *Journal of Physical Chemistry B*, **2008**, 112, 14692-7	3.4	78
271	Poly(N-isopropylacrylamide) microgels at the oil□water interface: adsorption kinetics. *Soft Matter*, **2013**, 9, 9939	3.6	77
270	Isostructural solid-solid phase transition in monolayers of soft core-shell particles at fluid interfaces: structure and mechanics. *Soft Matter*, **2016**, 12, 3545-57	3.6	76
269	Influence of architecture on the interaction of negatively charged multisensitive poly(N-isopropylacrylamide)-co-methacrylic acid microgels with oppositely charged polyelectrolyte: absorption vs adsorption. *Langmuir*, **2010**, 26, 11258-65	4	76
268	Shape-Selective Synthesis of Palladium Nanoparticles Stabilized by Highly Branched Amphiphilic Polymers. *Advanced Functional Materials*, **2004**, 14, 999-1004	15.6	76
267	Hydrodynamic and Colloidal Interactions in Concentrated Charge-Stabilized Polymer Dispersions. *Journal of Colloid and Interface Science*, **2000**, 225, 166-178	9.3	76
266	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	5.5	75
265	3D Structures of Responsive Nanocompartmentalized Microgels. *Nano Letters*, **2016**, 16, 7295-7301	11.5	75
264	Pathway of the Shear-Induced Transition between Planar Lamellae and Multilamellar Vesicles as Studied by Time-Resolved Scattering Techniques. *Langmuir*, **2003**, 19, 3603-3618	4	74

263	Influence of Shear on Lyotropic Lamellar Phases with Different Membrane Defects. *Journal of Physical Chemistry B*, **1999**, 103, 2841-2849	3.4	73
262	Hollow and Core-Shell Microgels at Oil-Water Interfaces: Spreading of Soft Particles Reduces the Compressibility of the Monolayer. *Langmuir*, **2015**, 31, 13145-54	4	71
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260	Nonionic Amphiphilic Bilayer Structures under Shear. *Langmuir*, **2001**, 17, 999-1008	4	70
259	Thermodynamic and hydrodynamic interaction in concentrated microgel suspensions: Hard or soft sphere behavior?. *Journal of Chemical Physics*, **2008**, 129, 124902	3.9	69
258	Cononsolvency Revisited: Solvent Entrapment by N-Isopropylacrylamide and N,N-Diethylacrylamide Microgels in Different Water/Methanol Mixtures. *Macromolecules*, **2013**, 46, 523-532	5.5	67
257	Shear induced structures in lamellar phases of amphiphilic block copolymers. *Physical Chemistry Chemical Physics*, **1999**, 1, 3905-3910	3.6	67
256	Magnetic capsules and pickering emulsions stabilized by core-shell particles. *Langmuir*, **2009**, 25, 7335-41	4	66
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254	Cylindrical intermediates in a shear-induced lamellar-to-vesicle transition. *Europhysics Letters*, **2001**, 53, 335-341	1.6	66
253	Time-resolved structural evolution during the collapse of responsive hydrogels: The microgel-to-particle transition. *Science Advances*, **2018**, 4, eaao7086	14.3	65
252	Microgel-Stabilized Smart Emulsions for Biocatalysis. *Angewandte Chemie*, **2013**, 125, 604-607	3.6	65
251	Layer-by-layer assembly on stimuli-responsive microgels. *Current Opinion in Colloid and Interface Science*, **2008**, 13, 403-412	7.6	65
250	Light scattering from aqueous solutions of a nonionic surfactant (C14E8) in a wide concentration range. *The Journal of Physical Chemistry*, **1988**, 92, 6032-6040		65
249	The compressibility of pH-sensitive microgels at the oil-water interface: higher charge leads to less repulsion. *Angewandte Chemie - International Edition*, **2014**, 53, 4905-9	16.4	64
248	Layer-by-layer assembly of a magnetic nanoparticle shell on a thermoresponsive microgel core. *Journal of Magnetism and Magnetic Materials*, **2007**, 311, 219-223	2.8	64
247	Shear-induced orientations in a lyotropic defective lamellar phase. *Europhysics Letters*, **1998**, 43, 683-689	1.6	63
246	Synergistic depression of volume phase transition temperature in copolymer microgels. *Colloid and Polymer Science*, **2006**, 285, 471-474	2.4	62

245	Highly ordered 2D microgel arrays: compression versus self-assembly. *Soft Matter*, **2014**, 10, 7968-76	3.6	61
244	The special behaviours of responsive core–shell nanogels. *Soft Matter*, **2012**, 8, 11423	3.6	61
243	Does Flory-Rehner theory quantitatively describe the swelling of thermoresponsive microgels?. *Soft Matter*, **2017**, 13, 8271-8280	3.6	60
242	Copolymer Microgels from Mono- and Disubstituted Acrylamides: Phase Behavior and Hydrogen Bonds. *Macromolecules*, **2008**, 41, 6830-6836	5.5	59
241	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	5.5	59
240	Gel point in physical gels: rheology and light scattering from thermoreversibly gelling schizophyllan. *Polymer Gels and Networks*, **1998**, 5, 541-559		58
239	Shear-Induced Phase Separation in Aqueous Polymer Solutions: Temperature-Sensitive Microgels and Linear Polymer Chains. *Macromolecules*, **2003**, 36, 8811-8818	5.5	58
238	The role of the N-terminal domain in dimerization and nucleocytoplasmic shuttling of latent STAT3. *Journal of Cell Science*, **2011**, 124, 900-9	5.3	57
237	Exploring the colloid-to-polymer transition for ultra-low crosslinked microgels from three to two dimensions. *Nature Communications*, **2019**, 10, 1418	17.4	56
236	Structure-property relationship in stimulus-responsive bolaamphiphile hydrogels. *Langmuir*, **2007**, 23, 7715-23	4	56
235	Dynamic light scattering from polymer solutions **1989**, 151-163		56
234	Nanoscopic Visualization of Cross-Linking Density in Polymer Networks with Diarylethene Photoswitches. *Angewandte Chemie - International Edition*, **2018**, 57, 12280-12284	16.4	55
233	Influence of Water-Soluble Polymers on the Shear-Induced Structure Formation in Lyotropic Lamellar Phases. *Journal of Physical Chemistry B*, **2001**, 105, 11081-11088	3.4	54
232	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	3.6	53
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229	Shear Orientation of Lyotropic Hexagonal Phases. *Journal of Physical Chemistry B*, **1998**, 102, 507-513	3.4	52
228	Core-shell-shell and hollow double-shell microgels with advanced temperature responsiveness. *Macromolecular Rapid Communications*, **2015**, 36, 159-64	4.8	51

227	Polymer dynamics in responsive microgels: influence of cononsolvency and microgel architecture. *Physical Chemistry Chemical Physics*, **2012**, 14, 2762-8	3.6	49
226	Relationship between short-time self-diffusion and high-frequency viscosity in charge-stabilized dispersions. *Physical Review E*, **1998**, 58, R4088-R4091	2.4	48
225	How Hollow Are Thermoresponsive Hollow Nanogels?. *Macromolecules*, **2014**, 47, 8700-8708	5.5	47
224	Poly(N-isopropylacrylamide) microgels at the oil-water interface: temperature effect. *Soft Matter*, **2014**, 10, 6182-91	3.6	46
223	Behavior of temperature-responsive copolymer microgels at the oil/water interface. *Langmuir*, **2014**, 30, 7660-9	4	46
222	Spatially resolved tracer diffusion in complex responsive hydrogels. *Journal of the American Chemical Society*, **2012**, 134, 15963-9	16.4	45
221	Persulfate initiated ultra-low cross-linked poly(N-isopropylacrylamide) microgels possess an unusual inverted cross-linking structure. *Soft Matter*, **2016**, 12, 3919-28	3.6	45
220	From Batch to Continuous Precipitation Polymerization of Thermoresponsive Microgels. *ACS Applied Materials & Interfaces*, **2018**, 10, 24799-24806	9.5	44
219	Spontaneous assembly of miktoarm stars into vesicular interpolyelectrolyte complexes. *Macromolecular Rapid Communications*, **2013**, 34, 855-60	4.8	44
218	Solution Structure of Metal Particles Prepared in Unimolecular Reactors of Amphiphilic Hyperbranched Macromolecules. *Macromolecules*, **2004**, 37, 7893-7900	5.5	44
217	Influence of Shear on Solvated Amphiphilic Block Copolymers with Lamellar Morphology. *Macromolecules*, **2002**, 35, 4064-4074	5.5	44
216	Mixing of Two Immiscible Liquids within the Polymer Microgel Adsorbed at Their Interface. *ACS Macro Letters*, **2016**, 5, 612-616	6.6	44
215	Fundamental Study of Emulsions Stabilized by Soft and Rigid Particles. *Langmuir*, **2015**, 31, 6282-8	4	43
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213	Cononsolvency of mono- and di-alkyl N-substituted poly(acrylamide)s and poly(vinyl caprolactam). *Polymer*, **2015**, 62, 50-59	3.9	42
212	Effect of brighteners on hydrogen evolution during zinc electroplating from zincate electrolytes. *Journal of Applied Electrochemistry*, **1998**, 28, 1107-1112	2.6	42
211	Core□Shell-Structured Highly Branched Poly(ethylenimine amide)s:□Synthesis and Structure. *Macromolecules*, **2005**, 38, 5914-5920	5.5	42
210	A model describing the internal structure of core/shell hydrogels. *Soft Matter*, **2011**, 7, 10327	3.6	41

209	Rheology and Shear Orientation of a Nematic Liquid Crystalline Side-Group Polymer with Laterally Attached Mesogenic Units. *Macromolecules*, **1997**, 30, 7574-7581	5.5	41
208	Progress in thick-film pad printing technique for solar cells. *Solar Energy Materials and Solar Cells*, **2001**, 65, 399-407	6.4	41
207	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	9.3	41
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204	Unperturbed volume transition of thermosensitive poly-(N-isopropylacrylamide) microgel particles embedded in a hydrogel matrix. *Journal of Physical Chemistry B*, **2008**, 112, 6309-14	3.4	38
203	Rheo-optical investigations of lyotropic mesophases of polymeric surfactants. *Rheologica Acta*, **1999**, 38, 486-494	2.3	38
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201	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	4	37
200	Electrochemical reactivity of ordered and disordered n-GaAs(110) surfaces. A combined XPS, LEED and electrochemical study. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1987**, 91, 412-416		37
199	Tunable 2D binary colloidal alloys for soft nanotemplating. *Nanoscale*, **2018**, 10, 22189-22195	7.7	37
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192	Waterborne physically crosslinked antimicrobial nanogels. *Polymer Chemistry*, **2016**, 7, 364-369	4.9	34

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190	Polymers in focus: fluorescence correlation spectroscopy. *Colloid and Polymer Science*, **2014**, 292, 2399-2411	2.4	34
189	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, 3039-47	3.6	34
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178	Influence of polyelectrolyte multilayer adsorption on the temperature sensitivity of poly(N-isopropylacrylamide) (PNiPAM) microgels. *Colloid and Polymer Science*, **2004**, 282, 1146-1149	2.4	31
177	Anisotropic Small Angle Light and Neutron Scattering from a Lyotropic Lamellar Phase under Shear. *Journal De Physique II*, **1996**, 6, 529-542		31
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169	Kinetics and particle size control in non-stirred precipitation polymerization of N-isopropylacrylamide. *Colloid and Polymer Science*, **2014**, 292, 1743-1756	2.4	29
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165	Remote temperature measurements in femto-liter volumes using dual-focus-Fluorescence Correlation Spectroscopy. *Lab on A Chip*, **2009**, 9, 1248-53	7.2	28
164	Dual-focus fluorescence correlation spectroscopy of colloidal solutions: influence of particle size. *Journal of Physical Chemistry B*, **2008**, 112, 8236-40	3.4	28
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