Matthias M Ballauff

List of Publications by Year
in descending order

287	23,206	6613 79	9861 141
papers	citations	h-index	g-index

299	299	299	18198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Simple and Robust Method to Prepare Polyelectrolyte Brushes on Polymer Surfaces. Advanced Materials Interfaces, 2022, 9, .	3.7	4
2	Charge Matters: Mutations in Omicron Variant Favor Binding to Cells. ChemBioChem, 2022, 23, e202100681.	2.6	62
3	Denaturation of proteins: electrostatic effects vs. hydration. RSC Advances, 2022, 12, 10105-10113.	3.6	2
4	Wechselwirkung von Polyelektrolytâ€Architekturen mit Proteinen und Biosystemen. Angewandte Chemie, 2021, 133, 3926-3950.	2.0	8
5	Understanding the Interaction of Polyelectrolyte Architectures with Proteins and Biosystems. Angewandte Chemie - International Edition, 2021, 60, 3882-3904.	13.8	65
6	Kinetics of the Reduction of 4-Nitrophenol by Silver Nanoparticles Immobilized in Thermoresponsive Coreâ€“Shell Nanoreactors. Industrial & Engineering Chemistry Research, 2021, 60, 3922-3935.	3.7	17
7	Solid Electrolyte Interphase Layer Formation during Lithiation of Single-Crystal Silicon Electrodes with a Protective Aluminum Oxide Coating. ACS Applied Materials & Interfaces, 2021, 13, 21241-21249.	8.0	5
8	Interaction of Polyelectrolytes with Proteins: Quantifying the Role of Water. Advanced Science, 2021, 8, 2100661.	11.2	12
9	Polysulfate hemmen durch elektrostatische Wechselwirkungen die SARSâ€CoVâ€2â€Infektion**. Angewandte Chemie, 2021, 133, 16005-16014.	2.0	0
10	Toolbox of Biodegradable Dendritic (Poly glycerol sulfate)â€“SS-poly(ester) Micelles for Cancer Treatment: Stability, Drug Release, and Tumor Targeting. Biomacromolecules, 2021, 22, 2625-2640.	5.4	17
11	Polysulfates Block SARSâ€CoVâ€2 Uptake through Electrostatic Interactions**. Angewandte Chemie - International Edition, 2021, 60, 15870-15878.	13.8	49
12	Interaction of Linear Polyelectrolytes with Proteins: Role of Specific Chargeâ€“Charge Interaction and Ionic Strength. Biomolecules, 2021, 11, 1377.	4.0	5
13	Interaction of Proteins with a Planar Poly(acrylic acid) Brush: Analysis by Quartz Crystal Microbalance with Dissipation Monitoring (QCM-D). Polymers, 2021, 13, 122.	4.5	13
14	Thermodynamic Analysis of the Uptake of a Protein in a Spherical Polyelectrolyte Brush. Macromolecular Rapid Communications, 2020, 41, 1900421.	3.9	12
15	Mechanism of the Oxidation of 3,3â€²,5,5â€²â€Tetramethylbenzidine Catalyzed by Peroxidaseâ€Like Pt Nanoparticles Immobilized in Spherical Polyelectrolyte Brushes: A Kinetic Study. ChemPhysChem, 2020, 21, 450-458.	2.1	25
16	Thermodynamic Analysis of the Interaction of Heparin with Lysozyme. Biomacromolecules, 2020, 21, 4615-4625.	5.4	19
17	Morphological evolution of a single crystal silicon battery electrode during lithiation and delithiation: An operando phase-contrast imaging study. Energy Storage Materials, 2020, 32, 377-385.	18.0	4
18	Carbonaceous Materials Investigated by Small-Angle X-ray and Neutron Scattering. Journal of Carbon Research, 2020, 6, 82.	2.7	6

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19	Interaction of Proteins with Polyelectrolytes: Comparison of Theory to Experiment. Langmuir, 2019, 35, 5373-5391.	3.5	51
20	The effect of a binder on porosity of the nanoporous RP-20 carbon. A combined study by small angle X-ray and neutron scattering. Microporous and Mesoporous Materials, 2019, 275, 139-146.	4.4	9
21	Enhanced Catalytic Activity of Gold@Polydopamine Nanoreactors with Multi-compartment Structure Under NIR Irradiation. Nano-Micro Letters, 2019, 11, 83.	27.0	17
22	Operando Analysis of a Lithium/Sulfur Battery by Small-Angle Neutron Scattering. ACS Nano, 2019, 13, 10233-10241.	14.6	39
23	Interaction of Lysozyme with a Dendritic Polyelectrolyte: Quantitative Analysis of the Free Energy of Binding and Comparison to Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2019, 123, 8222-8231.	2.6	20
24	Highly Dispersible Hexagonal Carbonâ€“MoS₂â€“Carbon Nanoplates with Hollow Sandwich Structures for Supercapacitors. Chemistry - A European Journal, 2019, 25, 4757-4766.	3.3	35
25	Carbide derived carbons investigated by small angle X-ray scattering: Inner surface and porosity vs. graphitization. Carbon, 2019, 146, 284-292.	10.3	25
26	Surface structure inhibited lithiation of crystalline silicon probed with operando neutron reflectivity. Energy Storage Materials, 2019, 18, 182-189.	18.0	14
27	Stability of human serum albumin structure upon toxin uptake explored by small angle neutron scattering. Polymer, 2018, 141, 175-183.	3.8	2
28	Counterion-Release Entropy Governs the Inhibition of Serum Proteins by Polyelectrolyte Drugs. Biomacromolecules, 2018, 19, 409-416.	5.4	39
29	Catalysis by Metallic Nanoparticles in Solution: Thermosensitive Microgels as Nanoreactors. Zeitschrift Fur Physikalische Chemie, 2018, 232, 773-803.	2.8	42
30	Cationic colloidâ€“anionic liposomeâ€“protein ternary complex: formation, properties, and biomedical importance. Mendeleev Communications, 2018, 28, 326-328.	1.6	5
31	More friction for polyelectrolyte brushes. Science, 2018, 360, 1399-1400.	12.6	8
32	Interaction of human serum albumin with dendritic polyglycerol sulfate: Rationalizing the thermodynamics of binding. Journal of Chemical Physics, 2018, 149, 163324.	3.0	32
33	Charge and hydration structure of dendritic polyelectrolytes: molecular simulations of polyglycerol sulphate. Soft Matter, 2018, 14, 4300-4310.	2.7	13
34	Thermodynamics of the Binding of Lysozyme to a Dendritic Polyelectrolyte: Electrostatics Versus Hydration. ACS Omega, 2018, 3, 9086-9095.	3.5	19
35	Competitive adsorption of multiple proteins to nanoparticles: the Vroman effect revisited. Molecular Physics, 2018, 116, 3154-3163.	1.7	58
36	Protein Immobilization onto Cationic Spherical Polyelectrolyte Brushes Studied by Small Angle X-ray Scattering. Biomacromolecules, 2017, 18, 1574-1581.	5.4	37

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37	Porous Ti₄O₇ Particles with Interconnectedâ€Pore Structure as a Highâ€Efficiency Polysulfide Mediator for Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2017, 27, 1701176.	14.9	127
38	Interaction of Charged Patchy Protein Models with Like-Charged Polyelectrolyte Brushes. Langmuir, 2017, 33, 417-427.	3.5	44
39	Interaction of human serum albumin with uremic toxins: a thermodynamic study. RSC Advances, 2017, 7, 27913-27922.	3.6	23
40	Charged Dendrimers Revisited: Effective Charge and Surface Potential of Dendritic Polyglycerol Sulfate. Macromolecules, 2017, 50, 4759-4769.	4.8	32
41	Correlating pore size and shape to local disorder in microporous carbon: A combined small angle neutron and X-ray scattering study. Carbon, 2017, 123, 440-447.	10.3	50
42	Binder-free carbon monolith cathode material for operando investigation of high performance lithium-sulfur batteries with X-ray radiography. Energy Storage Materials, 2017, 9, 96-104.	18.0	23
43	Thermosensitive Cu₂Oâ€“PNIPAM coreâ€“shell nanoreactors with tunable photocatalytic activity. Journal of Materials Chemistry A, 2016, 4, 9677-9684.	10.3	46
44	Correlation of capacity fading processes and electrochemical impedance spectra in lithium/sulfur cells. Journal of Power Sources, 2016, 323, 107-114.	7.8	55
45	Spherical polyelectrolyte brushes as nanoreactors for the generation of metallic and oxidic nanoparticles: Synthesis and application in catalysis. Progress in Polymer Science, 2016, 59, 86-104.	24.7	65
46	Self-assembly creates 2D materials. Science, 2016, 352, 656-657.	12.6	14
47	Phase transitions in brushes of homopolymers. Polymer, 2016, 98, 402-408.	3.8	23
48	Lithiation of Crystalline Silicon As Analyzed by Operando Neutron Reflectivity. ACS Nano, 2016, 10, 7458-7466.	14.6	77
49	Reaction rate of a composite coreâ€“shell nanoreactor with multiple nanocatalysts. Physical Chemistry Chemical Physics, 2016, 18, 20758-20767.	2.8	18
50	Divergence of the third harmonic stress response to oscillatory strain approaching the glass transition. Soft Matter, 2016, 12, 8825-8832.	2.7	18
51	Synthesis of Dispersible Mesoporous Nitrogen-Doped Hollow Carbon Nanoplates with Uniform Hexagonal Morphologies for Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 29628-29636.	8.0	37
52	Polymer brushes. Polymer, 2016, 98, 387-388.	3.8	2
53	Precise and Reversible Protein-Microtubule-Like Structure with Helicity Driven by Dual Supramolecular Interactions. Journal of the American Chemical Society, 2016, 138, 1932-1937.	13.7	85
54	Nanostructural Evolution and Self-Healing Mechanism of Micellar Hydrogels. Macromolecules, 2016, 49, 2281-2287.	4.8	95

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55	Distribution of Sulfur in Carbon/Sulfur Nanocomposites Analyzed by Small-Angle X-ray Scattering. Langmuir, 2016, 32, 2780-2786.	3.5	36
56	Alzheimer's peptide amyloid-Î², fragment 22â€“40, perturbs lipid dynamics. Soft Matter, 2016, 12, 1444-1451.	2.7	17
57	Nonequilibrium structure of colloidal dumbbells under oscillatory shear. Physical Review E, 2015, 92, 052311.	2.1	8
58	Critical fluctuations and static inhomogeneities in polymer gel volume phase transitions. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1112-1122.	2.1	15
59	Theory of Solvation-Controlled Reactions in Stimuli-Responsive Nanoreactors. Journal of Physical Chemistry C, 2015, 119, 15723-15730.	3.1	37
60	Competitive Protein Adsorption to Soft Polymeric Layers: Binary Mixtures and Comparison to Theory. Journal of Physical Chemistry B, 2015, 119, 3250-3258.	2.6	28
61	Colloidal Plastic Crystals in a Shear Field. Langmuir, 2015, 31, 5992-6000.	3.5	18
62	Design of block copolymer micelles via crystallization. Polymer, 2015, 62, A1-A13.	3.8	70
63	Interaction of human serum albumin with short polyelectrolytes: a study by calorimetry and computer simulations. Soft Matter, 2015, 11, 4630-4639.	2.7	64
64	Kinetic analysis of the reduction of 4-nitrophenol catalyzed by Au/Pd nanoalloys immobilized in spherical polyelectrolyte brushes. Physical Chemistry Chemical Physics, 2015, 17, 28137-28143.	2.8	83
65	Ligand-free Gold Nanoparticles as a Reference Material for Kinetic Modelling of Catalytic Reduction of 4-Nitrophenol. Catalysis Letters, 2015, 145, 1105-1112.	2.6	75
66	Like-charged protein-polyelectrolyte complexation driven by charge patches. Journal of Chemical Physics, 2015, 143, 064905.	3.0	47
67	In Situ Synthesis of Catalytic Active Au Nanoparticles onto Gibbsiteâ€“Polydopamine Coreâ€“Shell Nanoplates. Langmuir, 2015, 31, 9483-9491.	3.5	49
68	Surface-Active Lipid Linings under Shear Loadâ€”A Combined in-Situ Neutron Reflectivity and ATR-FTIR Study. Langmuir, 2015, 31, 11539-11548.	3.5	15
69	Facile synthesis of gold/polymer nanocomposite particles using polymeric amine-based particles as dual reductants and templates. Polymer, 2015, 76, 271-279.	3.8	24
70	Poly-acrylic Acid Brushes and Adsorbed Proteins. Zeitschrift Fur Physikalische Chemie, 2015, 229, 1119-1139.	2.8	6
71	Capacious and programmable multi-liposomal carriers. Nanoscale, 2015, 7, 1635-1641.	5.6	34
72	Poly(ionic liquid)-derived nanoporous carbon analyzed by combination of gas physisorption and small-angle neutron scattering. Carbon, 2015, 82, 425-435.	10.3	37

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73	The multi-domain nanoparticle structure of a universal core-multi-shell nanocarrier. Polymer, 2014, 55, 6735-6742.	3.8	11
74	Polyelectrolyte as Solvent and Reaction Medium. Journal of the American Chemical Society, 2014, 136, 12-15.	13.7	45
75	Dynamic density functional theory of protein adsorption on polymer-coated nanoparticles. Soft Matter, 2014, 10, 7932-7945.	2.7	37
76	Kinetic Analysis of the Catalytic Reduction of 4-Nitrophenol by Metallic Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 18618-18625.	3.1	316
77	Protein Interactions with Polymer Coatings and Biomaterials. Angewandte Chemie - International Edition, 2014, 53, 8004-8031.	13.8	614
78	A new time-of-flight small-angle scattering instrument at the Helmholtz-Zentrum Berlin: V16/VSANS. Journal of Applied Crystallography, 2014, 47, 237-244.	4.5	31
79	Thermosensitive hollow Janus dumbbells. Colloid and Polymer Science, 2014, 292, 1785-1793.	2.1	9
80	Capacity fading in lithium/sulfur batteries: A linear four-state model. Journal of Power Sources, 2014, 267, 648-654.	7.8	49
81	The structure of AuPd nanoalloys anchored on spherical polyelectrolyte brushes determined by X-ray absorption spectroscopy. Faraday Discussions, 2013, 162, 45.	3.2	12
82	Ideal Polyethylene Nanocrystals. Journal of the American Chemical Society, 2013, 135, 11645-11650.	13.7	71
83	Anomalous small-angle x-ray scattering from mesoporous noble metal catalysts. Colloid and Polymer Science, 2013, 291, 2163-2171.	2.1	4
84	Structural analysis of colloidal MnO x composites. Colloid and Polymer Science, 2013, 291, 469-481.	2.1	5
85	Silica-coated Au/Ag nanorods with tunable surface plasmon bands for nanoplasmonics with single particles. Colloid and Polymer Science, 2013, 291, 585-594.	2.1	14
86	Thermosensitive Au-PNIPA yolk-shell particles as â€œnanoreactorsâ€•with tunable optical properties. Colloid and Polymer Science, 2013, 291, 231-237.	2.1	19
87	Fine-Tuning the Structure of Stimuli-Responsive Polymer Films by Hydrostatic Pressure and Temperature. Macromolecules, 2013, 46, 6541-6547.	4.8	43
88	Electronic Structure of Individual Hybrid Colloid Particles Studied by Near-Edge X-ray Absorption Fine Structure (NEXAFS) Spectroscopy in the X-ray Microscope. Nano Letters, 2013, 13, 824-828.	9.1	13
89	Giant hollow fiber formation through self-assembly of oppositely charged polyelectrolyte brushes and gold nanoparticles. Soft Matter, 2013, 9, 9111.	2.7	2
90	Lipid Segregation in Membranes of Anionic Liposomes Adsorbed onto Polycationic Brushes. Chemistry - A European Journal, 2013, 19, 13674-13678.	3.3	18

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91	Structure formation in polyelectrolytes induced by multivalent ions. Polymer, 2013, 54, 2028-2035.	3.8	27
92	Small-angle X-ray scattering in droplet-based microfluidics. Lab on A Chip, 2013, 13, 1529.	6.0	39
93	Adsorption of proteins to functional polymeric nanoparticles. Polymer, 2013, 54, 2835-2849.	3.8	94
94	Residual Stresses in Glasses. Physical Review Letters, 2013, 110, 215701.	7.8	95
95	Overshoots in stress-strain curves: Colloid experiments and schematic mode coupling theory. Journal of Rheology, 2013, 57, 149-175.	2.6	60
96	Core-Shell Microgels as Nanoreactors. , 2013, , 113-130.		0
97	Colloidal gelation with variable attraction energy. Journal of Chemical Physics, 2013, 138, 104908.	3.0	56
98	Composition and Properties of Complexes between Spherical Polycationic Brushes and Anionic Liposomes. Langmuir, 2012, 28, 16108-16114.	3.5	20
99	Catalysis by metallic nanoparticles in aqueous solution: model reactions. Chemical Society Reviews, 2012, 41, 5577.	38.1	966
100	Asymmetric self-assembly of oppositely charged composite microgels and gold nanoparticles. Soft Matter, 2012, 8, 1648-1656.	2.7	14
101	Coreâ€“shell microgels as â€œsmartâ€•carriers for enzymes. Soft Matter, 2012, 8, 1428-1436.	2.7	103
102	Self-assembly of crystallineâ€“coil diblock copolymers in solution: experimental phase map. Soft Matter, 2012, 8, 3163.	2.7	63
103	Electrophoresis and Dielectric Dispersion of Spherical Polyelectrolyte Brushes. Langmuir, 2012, 28, 16372-16381.	3.5	20
104	Recoverable Platinum Nanocatalysts Immobilized on Magnetic Spherical Polyelectrolyte Brushes. Industrial & Engineering Chemistry Research, 2012, 51, 5608-5614.	3.7	41
105	Anisotropic nanoparticles of precise microstructure polyolefins. Chemical Communications, 2012, 48, 9153.	4.1	3
106	Protein Sorption to Charged Microgels: Characterizing Binding Isotherms and Driving Forces. Langmuir, 2012, 28, 14373-14385.	3.5	76
107	Self-Assembly of Charged Surfactants: Full Comparison of Molecular Simulations and Scattering Experiments. Langmuir, 2012, 28, 17632-17641.	3.5	8
108	Protein binding to soft polymeric layers: a quantitative study by fluorescence spectroscopy. Soft Matter, 2012, 8, 12043.	2.7	29

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109	Creep in Colloidal Glasses. Physical Review Letters, 2012, 108, 255701.	7.8	96
110	Catalytic activity of nanoalloys from gold and palladium. Physical Chemistry Chemical Physics, 2012, 14, 6487.	2.8	73
111	Synthesis and Characterization of Monodisperse Thermosensitive Dumbbellâ€Shaped Microgels. Macromolecular Rapid Communications, 2012, 33, 1042-1048.	3.9	17
112	Proteins and polyelectrolytes: A charged relationship. Current Opinion in Colloid and Interface Science, 2012, 17, 90-96.	7.4	101
113	Oxidation of an organic dye catalyzed by MnOx nanoparticles. Journal of Catalysis, 2012, 289, 80-87.	6.2	48
114	Tribute to Axel MÃ¼ller on the occasion of his 65th birthday. Polymer, 2012, 53, 1803-1804.	3.8	0
115	Thermosensitive Auâ€PNIPA Yolkâ€“Shell Nanoparticles with Tunable Selectivity for Catalysis. Angewandte Chemie - International Edition, 2012, 51, 2229-2233.	13.8	350
116	Interaction strength between proteins and polyelectrolyte brushes: a small angle X-ray scattering study. Physical Chemistry Chemical Physics, 2011, 13, 17599.	2.8	39
117	Adsorption of RNase A on Cationic Polyelectrolyte Brushes: A Study by Isothermal Titration Calorimetry. Biomacromolecules, 2011, 12, 3936-3944.	5.4	60
118	Synthesis of Spherical Polyelectrolyte Brushes by Photoemulsion Polymerization with Different Photoinitiators. Industrial & Engineering Chemistry Research, 2011, 50, 3564-3569.	3.7	13
119	Synthesis and Analysis of Zwitterionic Spherical Polyelectrolyte Brushes in Aqueous Solution. Macromolecules, 2011, 44, 1654-1660.	4.8	61
120	Second Harmonic Light Scattering from Spherical Polyelectrolyte Brushes. Journal of Physical Chemistry C, 2011, 115, 18302-18309.	3.1	17
121	Complexation of Anionic Liposomes with Spherical Polycationic Brushes. Langmuir, 2011, 27, 5310-5315.	3.5	14
122	Catalytic Activity of Faceted Gold Nanoparticles Studied by a Model Reaction: Evidence for Substrate-Induced Surface Restructuring. ACS Catalysis, 2011, 1, 908-916.	11.2	504
123	Annealing of Single Lamella Nanoparticles of Polyethylene. Macromolecules, 2011, 44, 4845-4851.	4.8	39
124	Glycopolymerâ€Grafted Polystyrene Nanospheres. Macromolecular Bioscience, 2011, 11, 199-210.	4.1	33
125	Analysis of Polymer Colloids by Smallâ€Angle Xâ€Ray and Neutron Scattering: Contrast Variation. Advanced Engineering Materials, 2011, 13, 793-802.	3.5	20
126	Experimental study of electrostatically stabilized colloidal particles: Colloidal stability and charge reversal. Journal of Colloid and Interface Science, 2011, 358, 62-67.	9.4	99

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127	Thermosensitive coreâ€“shell microgels: From colloidal model systems to nanoreactors. Progress in Polymer Science, 2011, 36, 767-792.	24.7	275
128	Quantifying the Reversible Association of Thermosensitive Nanoparticles. Physical Review Letters, 2011, 107, 168303.	7.8	59
129	Conformations and Solution Properties of Star-Branched Polyelectrolytes. Advances in Polymer Science, 2010, , 1-55.	0.8	25
130	Crystallization-induced aggregation of block copolymer micelles: influence of crystallization kinetics on morphology. Colloid and Polymer Science, 2010, 288, 573-578.	2.1	28
131	Hybrids of Magnetic Nanoparticles with Doubleâ€Hydrophilic Core/Shell Cylindrical Polymer Brushes and Their Alignment in a Magnetic Field. Advanced Functional Materials, 2010, 20, 4182-4189.	14.9	69
132	Sphereâ€toâ€Rod Transition of Micelles formed by the Semicrystalline Polybutadieneâ€blockâ€Poly(ethylene oxide) Block Copolymer in a Selective Solvent. Macromolecular Rapid Communications, 2010, 31, 449-453.	3.9	84
133	Synthesis of Spherical Polyelectrolyte Brushes by Thermoâ€controlled Emulsion Polymerization. Macromolecular Rapid Communications, 2010, 31, 1272-1275.	3.9	19
134	A fluorescence correlation spectroscopy study of macromolecular tracer diffusion in polymer solutions. Journal of Physics Condensed Matter, 2010, 22, 494111.	1.8	7
135	Thermal convection in a thermosensitive colloidal suspension. New Journal of Physics, 2010, 12, 053003.	2.9	34
136	Microgels as Nanoreactors: Applications in Catalysis. Advances in Polymer Science, 2010, , 129-163.	0.8	58
137	Stimuli-Responsive Organosilica Hybrid Nanowires Decorated with Metal Nanoparticles. Chemistry of Materials, 2010, 22, 2626-2634.	6.7	63
138	Manipulating the Morphologies of Cylindrical Polyelectrolyte Brushes by Forming Interpolyelectrolyte Complexes with Oppositely Charged Linear Polyelectrolytes: An AFM Study. Langmuir, 2010, 26, 6919-6926.	3.5	36
139	Composites of Metal Nanoparticles and TiO₂ Immobilized in Spherical Polyelectrolyte Brushes. Langmuir, 2010, 26, 4176-4183.	3.5	29
140	Adsorption of Î²-Lactoglobulin on Spherical Polyelectrolyte Brushes: Direct Proof of Counterion Release by Isothermal Titration Calorimetry. Journal of the American Chemical Society, 2010, 132, 3159-3163.	13.7	159
141	Liposomes Remain Intact When Complexed with Polycationic Brushes. Journal of the American Chemical Society, 2010, 132, 5948-5949.	13.7	33
142	Stability behavior of anionic spherical polyelectrolyte brushes in the presence of La(III) counterions. Physical Review E, 2010, 82, 011401.	2.1	31
143	Kinetic Analysis of Catalytic Reduction of 4-Nitrophenol by Metallic Nanoparticles Immobilized in Spherical Polyelectrolyte Brushes. Journal of Physical Chemistry C, 2010, 114, 8814-8820.	3.1	1,068
144	Formation of Ultrathin Birnessite-Type Nanoparticles Immobilized on Spherical Polyelectrolyte Brushes. Chemistry of Materials, 2010, 22, 2916-2922.	6.7	22

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145	Thermoresponsive colloidal molecules. Soft Matter, 2010, 6, 1125.	2.7	20
146	Adsorption/Desorption Behavior of Charged Polymer Nanoparticles on a Mineral Surface in an Aqueous Environment. , 2010, , 81-102.		0
147	Single Nanocrystals of Platinum Prepared by Partial Dissolution of Au-Pt Nanoalloys. Science, 2009, 323, 617-620.	12.6	255
148	Formation of Stable Mesoglobules by a Thermosensitive Dendronized Polymer. Macromolecules, 2009, 42, 7122-7128.	4.8	43
149	Polyelectrolyte Stars and Cylindrical Brushes. Advances in Polymer Science, 2009, , 1-38.	0.8	10
150	Thermosensitive Core-Shell Microgel as a â€œNanoreactorâ€•for Metal Nanoparticles. Materials Research Society Symposia Proceedings, 2009, 1234, 1.	0.1	1
151	Twoâ€Dimensional Oligo(phenyleneâ€ethynyleneâ€butadiynylene)s: Allâ€Covalent Nanoscale Spoked Wheels. Chemistry - A European Journal, 2009, 15, 2518-2535.	3.3	38
152	A Shielding Topology Stabilizes the Early Stage Protein-Mineral Complexes of Fetuin-A and Calcium Phosphate: A Time-Resolved Small-Angle X-ray Study. ChemBioChem, 2009, 10, 735-740.	2.6	56
153	Wellâ€Defined Crystalline TiO₂ Nanoparticles Generated and Immobilized on a Colloidal Nanoreactor. Macromolecular Chemistry and Physics, 2009, 210, 377-386.	2.2	42
154	Supramolecular Structures Generated by Spherical Polyelectrolyte Brushes and their Application in Catalysis. Macromolecular Rapid Communications, 2009, 30, 806-815.	3.9	82
155	Happy Birthday, MRC - Off to New Horizons. Macromolecular Rapid Communications, 2009, 30, 217-220.	3.9	0
156	Interaction of cylindrical polymer brushes in dilute and semi-dilute solution. Colloid and Polymer Science, 2009, 287, 129-138.	2.1	33
157	An empirical constitutive law for concentrated colloidal suspensions in the approach of the glass transition. Rheologica Acta, 2009, 48, 747-753.	2.4	18
158	Shaping Colloidal Rutile into Thermally Stable and Porous Mesoscopic Titania Balls. Small, 2009, 5, 1326-1333.	10.0	28
159	Self-Assembly of Janus Cylinders into Hierarchical Superstructures. Journal of the American Chemical Society, 2009, 131, 4720-4728.	13.7	165
160	Self-Diffusion and Cooperative Diffusion in Semidilute Polymer Solutions As Measured by Fluorescence Correlation Spectroscopy. Macromolecules, 2009, 42, 9537-9547.	4.8	80
161	Switching the Morphologies of Cylindrical Polycation Brushes by Ionic and Supramolecular Inclusion Complexes. Journal of the American Chemical Society, 2009, 131, 1640-1641.	13.7	60
162	Influence of Counterion Valency on the Conformational Behavior of Cylindrical Polyelectrolyte Brushes. Journal of Physical Chemistry B, 2009, 113, 5104-5110.	2.6	33

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163	Salt-Induced Aggregation of Polyelectrolyteâ^'Amphiphilic Dendron Complexes in THF Solutions. Langmuir, 2009, 25, 2075-2080.	3.5	19
164	Viscoelasticity and shear flow of concentrated, noncrystallizing colloidal suspensions: Comparison with mode-coupling theory. Journal of Rheology, 2009, 53, 707-726.	2.6	120
165	Manipulating cylindrical polyelectrolyte brushes on the nanoscale by counterions: collapse transition to helical structures. Soft Matter, 2009, 5, 379-384.	2.7	68
166	Temperature-Induced Switching between Aggregated and Nonaggregated States in Coilâ^'Ringâ^'Coil Block Copolymers. Macromolecules, 2009, 42, 5900-5902.	4.8	11
167	Enhanced Activity of Enzymes Immobilized in Thermoresponsive Coreâ^'Shell Microgels. Journal of Physical Chemistry B, 2009, 113, 16039-16045.	2.6	94
168	Thermosensitive core-shell microgel as a â€œnanoreactorâ€• for catalytic active metal nanoparticles. Journal of Materials Chemistry, 2009, 19, 3955.	6.7	191
169	Crystallization-induced switching of the morphology of poly(ethylene oxide)-block-polybutadiene micelles. Soft Matter, 2009, 5, 208-213.	2.7	62
170	Polyelectrolyte Stars and Cylindrical Brushes Made by ATRP: New Building Blocks in Nanotechnology. NATO Science for Peace and Security Series A: Chemistry and Biology, 2009, , 17-36.	0.5	1
171	Direct imaging of temperature-sensitive core-shell latexes by cryogenic transmission electron microscopy. Colloid and Polymer Science, 2008, 286, 805-812.	2.1	73
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