Rudolf Zentel

List of Publications by Year
in descending order

354	16,888	14614 66	26548 107
papers	citations	h-index	g-index

369	369	369	12941
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Liquid Crystalline Elastomers as Actuators and Sensors. Advanced Materials, 2010, 22, 3366-3387.	11.1	923
2	Giant lateral electrostriction in ferroelectric liquid-crystalline elastomers. Nature, 2001, 410, 447-450.	13.7	408
3	Synthesis of pentafluorophenyl(meth)acrylate polymers: New precursor polymers for the synthesis of multifunctional materials. European Polymer Journal, 2005, 41, 1569-1575.	2.6	368
4	Liquid Crystalline Ordering and Charge Transport in Semiconducting Materials. Macromolecular Rapid Communications, 2009, 30, 1179-1202.	2.0	360
5	Overcoming the PEG-addiction: well-defined alternatives to PEG, from structureâ€“property relationships to better defined therapeutics. Polymer Chemistry, 2011, 2, 1900.	1.9	356
6	Synthesis and phase behaviour of liquid crystalline polyacrylates. Die Makromolekulare Chemie, 1982, 183, 2311-2321.	1.1	312
7	Liquidâ€Crystalline Ordering as a Concept in Materials Science: From Semiconductors to Stimuliâ€Responsive Devices. Angewandte Chemie - International Edition, 2013, 52, 8810-8827.	7.2	280
8	Extraordinary Performance of Carbonâ€Coated Anatase TiO₂ as Sodiumâ€Ion Anode. Advanced Energy Materials, 2016, 6, 1501489.	10.2	205
9	Irisâ€Like Tunable Aperture Employing Liquidâ€Crystal Elastomers. Advanced Materials, 2014, 26, 7247-7251.	11.1	195
10	Dielectric relaxation of liquid crystalline polyacrylates and polymethacrylates. Macromolecules, 1985, 18, 960-965.	2.2	184
11	Photonic Crystals from Core-Shell Colloids with Incorporated Highly Fluorescent Quantum Dots. Chemistry of Materials, 2005, 17, 1346-1351.	3.2	170
12	Title is missing!. Die Makromolekulare Chemie, 1986, 187, 1915-1926.	1.1	163
13	A Continuous Flow Synthesis of Micrometerâ€Sized Actuators from Liquid Crystalline Elastomers. Advanced Materials, 2009, 21, 4859-4862.	11.1	160
14	Photonic Crystal Films with High Refractive Index Contrast. Advanced Materials, 2000, 12, 1499-1503.	11.1	154
15	Semiconductor Nanocrystals with Multifunctional Polymer Ligands. Journal of the American Chemical Society, 2003, 125, 320-321.	6.6	141
16	Liquid Crystalline Elastomers. Angewandte Chemie, 1989, 101, 1437-1445.	1.6	137
17	Ferroelectric liquid-crystalline elastomers. Macromolecular Chemistry and Physics, 1994, 195, 1891-1904.	1.1	136
18	Experimental proof of piezoelectricity in cholesteric and chiral smectic C*-phases of LC-elastomers. Die Makromolekulare Chemie Rapid Communications, 1990, 11, 593-598.	1.1	135

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19	Photochemical Inversion of the Helical Twist Sense in Chiral Polyisocyanates. Macromolecules, 1995, 28, 8438-8440.	2.2	133
20	Influence of End Groups on the Stimulus-Responsive Behavior of Poly[oligo(ethylene glycol) methacrylate] in Water. Macromolecules, 2010, 43, 4638-4645.	2.2	133
21	Quantum Dotâ˜Block Copolymer Hybrids with Improved Properties and Their Application to Quantum Dot Light-Emitting Devices. ACS Nano, 2009, 3, 1063-1068.	7.3	132
22	Dye-Containing Polymer Beads as Photonic Crystals. Chemistry of Materials, 2000, 12, 2508-2512.	3.2	129
23	One-piece micropumps from liquid crystalline core-shell particles. Nature Communications, 2012, 3, 1178.	5.8	125
24	Chiral polyisocyanates, a special class of helical polymers. Progress in Polymer Science, 2001, 26, 1973-2013.	11.8	122
25	Shape variation of cross-linked liquid-crystalline polymers by electric fields. Liquid Crystals, 1986, 1, 589-592.	0.9	120
26	Living Light-Induced Crystallization-Driven Self-Assembly for Rapid Preparation of Semiconducting Nanofibers. Journal of the American Chemical Society, 2018, 140, 6088-6094.	6.6	116
27	Photochemically and Thermally Tunable Planar Defects in Colloidal Photonic Crystals. Journal of the American Chemical Society, 2005, 127, 9318-9319.	6.6	112
28	Heterostructures of Polymer Photonic Crystal Films. Chemistry of Materials, 2003, 15, 3786-3792.	3.2	111
29	Cationic Nanohydrogel Particles as Potential siRNA Carriers for Cellular Delivery. ACS Nano, 2012, 6, 2198-2214.	7.3	111
30	Bioinspired Actuated Adhesive Patterns of Liquid Crystalline Elastomers. Advanced Materials, 2012, 24, 4601-4604.	11.1	110
31	Liquid crystalline side chain polymers and their behaviour in the electric field. Die Makromolekulare Chemie, 1982, 183, 1245-1256.	1.1	106
32	Towards Plastic Electronics: Patterning Semiconducting Polymers by Nanoimprint Lithography. Advanced Materials, 2002, 14, 588.	11.1	106
33	From Defined Reactive Diblock Copolymers to Functional HPMA-Based Self-Assembled Nanoaggregates. Biomacromolecules, 2008, 9, 3114-3118.	2.6	105
34	Monodomain Liquid Crystal Main Chain Elastomers by Photocrosslinking. Macromolecular Rapid Communications, 2007, 28, 1485-1490.	2.0	99
35	Synthesis of Reactive Telechelic Polymers Based on Pentafluorophenyl Esters. Macromolecules, 2008, 41, 8513-8519.	2.2	99
36	Radioactive Labeling of Defined HPMA-Based Polymeric Structures Using [¹⁸F]FETos for In Vivo Imaging by Positron Emission Tomography. Biomacromolecules, 2009, 10, 1697-1703.	2.6	99

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37	Synthesis of Hetero-Telechelic Î±,Ï‰ Bio-Functionalized Polymers. Biomacromolecules, 2010, 11, 238-244.	2.6	99
38	Polymeric Nanoparticles with Neglectable Protein Corona. Small, 2020, 16, e1907574.	5.2	95
39	Large Photonic Films by Crystallization on Fluid Substrates. Chemistry of Materials, 2002, 14, 4023-4025.	3.2	93
40	Tailored Semiconducting Polymers: Living Radical Polymerization and NLO-Functionalization of Triphenylamines. Macromolecular Chemistry and Physics, 2002, 203, 503-510.	1.1	93
41	Stress-induced orientation in lightly crosslinked liquid-crystalline side-group polymers. Die Makromolekulare Chemie, 1987, 188, 665-674.	1.1	90
42	X-ray investigations of liquid crystalline homo- and copolysiloxanes with paired mesogens. Die Makromolekulare Chemie, 1987, 188, 1993-2000.	1.1	90
43	Characterization of Quantum Dot/Conducting Polymer Hybrid Films and Their Application to Lightâ€Emitting Diodes. Advanced Materials, 2009, 21, 5022-5026.	11.1	90
44	Tuning the Properties of Photonic Films from Polymer Beads by Chemistry. Chemistry of Materials, 2002, 14, 2176-2183.	3.2	89
45	Versatile Ï‰â€end group functionalization of RAFT polymers using functional methane thiosulfonates. Journal of Polymer Science Part A, 2009, 47, 3118-3130.	2.5	89
46	The uptake of N-(2-hydroxypropyl)-methacrylamide based homo, random and block copolymers by human multi-drug resistant breast adenocarcinoma cells. Biomaterials, 2009, 30, 5682-5690.	5.7	89
47	Surfactant-Free Emulsion Polymerization of Various Methacrylates: Towards Monodisperse Colloids for Polymer Opals. Macromolecular Chemistry and Physics, 2004, 205, 1479-1488.	1.1	88
48	Ferroelectric liquid crystalline polysiloxanes with high spontaneous polarization and possible applications in nonlinear optics. Advanced Materials, 1990, 2, 539-543.	11.1	86
49	Microfluidic Synthesis of Highly Shape-Anisotropic Particles from Liquid Crystalline Elastomers with Defined Director Field Configurations. Journal of the American Chemical Society, 2011, 133, 5305-5311.	6.6	84
50	Correlation between the Isomerization of Side Groups and the Helical Main Chain in Chiral Polyisocyanates. Macromolecules, 1998, 31, 8522-8525.	2.2	83
51	Waterâ€Soluble Polymers Coupled with Glycopeptide Antigens and Tâ€Cell Epitopes as Potential Antitumor Vaccines. Angewandte Chemie - International Edition, 2013, 52, 10652-10656.	7.2	83
52	3D photonic crystal intermediate reflector for micromorph thinâ€film tandem solar cell. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2796-2810.	0.8	82
53	Smart artificial muscle actuators: Liquid crystal elastomers with integrated temperature feedback. Sensors and Actuators A: Physical, 2015, 231, 44-51.	2.0	82
54	A Method for Obtaining Defined End Groups of Polymethacrylates Prepared by the RAFT Process during Aminolysis. Macromolecules, 2008, 41, 8316-8319.	2.2	80

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55	Carbon-Coated Anatase TiO₂Nanotubes for Li- and Na-Ion Anodes. Journal of the Electrochemical Society, 2015, 162, A3013-A3020.	1.3	80
56	CdSe/ZnS Nanocrystals with Dye-Functionalized Polymer Ligands Containing Many Anchor Groups. Angewandte Chemie - International Edition, 2005, 44, 2437-2440.	7.2	79
57	Liquid-crystalline elastomers with cholesteric and chiral smectic C* phases. Die Makromolekulare Chemie, 1989, 190, 2869-2884.	1.1	78
58	Liquid Crystalline Phases from Polymerâ€Functionalized TiO₂ Nanorods. Advanced Materials, 2007, 19, 2073-2078.	11.1	78
59	Liquid Crystalline Elastomers. Angewandte Chemie International Edition in English, 1989, 28, 1407-1415.	4.4	77
60	Controlled Synthesis of CdSe Tetrapods with High Morphological Uniformity by the Persistent Kinetic Growth and the Halide-Mediated Phase Transformation. Chemistry of Materials, 2013, 25, 1443-1449.	3.2	75
61	Coupling of liquid crystalline and polymer network properties in LC-elastomers. Liquid Crystals, 1996, 21, 589-596.	0.9	74
62	Modifying the Body Distribution of HPMA-Based Copolymers by Molecular Weight and Aggregate Formation. Biomacromolecules, 2011, 12, 2841-2849.	2.6	72
63	Combined liquid-crystalline polymers with chiral phases, 2. Lateral substituents. Die Makromolekulare Chemie, 1988, 189, 1793-1807.	1.1	70
64	Redox-active liquid-crystalline ionomers: 1. Synthesis and rheology. Polymer, 1992, 33, 5315-5320.	1.8	70
65	Redox-Tunable Defects in Colloidal Photonic Crystals. Advanced Materials, 2005, 17, 2455-2458.	11.1	70
66	Liquid crystalline phases from polymer functionalised semiconducting nanorods. Journal of Materials Chemistry, 2008, 18, 3050.	6.7	69
67	Ferroelectric modes in combined side-group main chain liquid-crystalline polymers. Die Makromolekulare Chemie Rapid Communications, 1989, 10, 333-338.	1.1	68
68	X-ray investigations of linear and cross-linked liquid-crystalline main chain and combined polymers. Liquid Crystals, 1987, 2, 651-664.	0.9	67
69	Synthesis, Characterization, and Hierarchical Organization of Tungsten Oxide Nanorods: Spreading Driven by Marangoni Flow. Journal of the American Chemical Society, 2009, 131, 17566-17575.	6.6	67
70	Liquid Crystalline Elastomersâ€"Characterization as Networks. Molecular Crystals and Liquid Crystals, 1994, 243, 353-376.	0.3	66
71	Reactions on Vinyl Isocyanate/Maleimide Copolymers:Â NLO-functionalized Polymers with High Glass Transitions for Nonlinear Optical Applications. Macromolecules, 1998, 31, 1454-1465.	2.2	65
72	High Contrast Ratio and Rapid Switching Organic Polymeric Electrochromic Thin Films Based on Triarylamine Derivatives from Layer-by-Layer Assembly. Chemistry of Materials, 2006, 18, 5823-5825.	3.2	64

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73	Synthesis and In Vitro Evaluation of Defined HPMA Folate Conjugates: Influence of Aggregation on Folate Receptor (FR) Mediated Cellular Uptake. Biomacromolecules, 2010, 11, 2274-2282.	2.6	64
74	Twoâ€Dimensional Aggregation of Organogelators Induced by Biaxial Hydrogenâ€Bonding Gives Supramolecular Nanosheets. Advanced Materials, 2007, 19, 3878-3881.	11.1	63
75	Î±-Pyrene polymer functionalized multiwalled carbon nanotubes: Solubility, stability and depletion phenomena. Polymer, 2009, 50, 154-160.	1.8	63
76	Targeting distinct myeloid cell populations inÂvivo using polymers, liposomes and microbubbles. Biomaterials, 2017, 114, 106-120.	5.7	63
77	Formation of Tethered Supported Bilayers by Vesicle Fusion onto Lipopolymer Monolayers Promoted by Osmotic Stress. Langmuir, 2000, 16, 6067-6070.	1.6	62
78	Solubilisation of multi walled carbon nanotubes by Î±-pyrene functionalised PMMA and their liquid crystalline self-organisation. Chemical Communications, 2008, , 3166.	2.2	61
79	Layered Nanostructures with LC-Polymers, Polyelectrolytes, and Inorganics. Macromolecules, 1997, 30, 4775-4779.	2.2	60
80	Applications of Liquid Crystalline Elastomers. Advances in Polymer Science, 2012, , 49-93.	0.4	60
81	PEGylation of HPMA-based block copolymers enhances tumor accumulation in vivo : A quantitative study using radiolabeling and positron emission tomography. Journal of Controlled Release, 2013, 172, 77-85.	4.8	60
82	Aggregation Behavior of Cationic Nanohydrogel Particles in Human Blood Serum. Biomacromolecules, 2014, 15, 1526-1533.	2.6	60
83	Nanoparticles in the Biological Context: Surface Morphology and Protein Corona Formation. Small, 2020, 16, e2002162.	5.2	60
84	Photonic band-gap effects upon the light emission from a dyeâ€“polymerâ€“opal composite. Applied Physics Letters, 1999, 75, 1057-1059.	1.5	59
85	Size-Dependent Knockdown Potential of siRNA-Loaded Cationic Nanohydrogel Particles. Biomacromolecules, 2014, 15, 4111-4121.	2.6	59
86	Mechanical behaviour of liquid-crystalline polymers and their networks. Die Makromolekulare Chemie, 1991, 192, 2401-2410.	1.1	58
87	Threeâ€Dimensional Photonic Crystal Intermediate Reflectors for Enhanced Lightâ€Trapping in Tandem Solar Cells. Advanced Materials, 2011, 23, 3896-3900.	11.1	58
88	Synthesis of Heterotelechelic Î±,Ï‰ Dye-Functionalized Polymer by the RAFT Process and Energy Transfer between the End Groups. Macromolecules, 2010, 43, 895-902.	2.2	57
89	Title is missing!. Die Makromolekulare Chemie, 1986, 187, 1727-1736.	1.1	56
90	Chiral Polyisocyanates from an Azomonomer with a Very High Chiral Induction. Macromolecules, 2002, 35, 185-192.	2.2	56

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91	New Perspectives of HPMAâ€based Copolymers Derived by Postâ€Polymerization Modification. Macromolecular Bioscience, 2014, 14, 607-618.	2.1	55
92	Fabrication of Single Cylindrical Au-Coated Nanopores with Non-Homogeneous Fixed Charge Distribution Exhibiting High Current Rectifications. ACS Applied Materials & Interfaces, 2014, 6, 12486-12494.	4.0	55
93	Structuring of self-assembled three-dimensional photonic crystals by direct electron-beam lithography. Applied Physics Letters, 2003, 83, 5289-5291.	1.5	54
94	Pathogenâ€Mimicking MnO Nanoparticles for Selective Activation of the TLR9 Pathway and Imaging of Cancer Cells. Advanced Functional Materials, 2009, 19, 3717-3725.	7.8	54
95	Chiral liquid-crystalline polymers by polymer-analogous reactions. Die Makromolekulare Chemie, 1991, 192, 1859-1872.	1.1	53
96	Structureâ€“property relationships of â€˜dilutedâ€™ ferroelectric polysiloxanes. Liquid Crystals, 1994, 16, 749-767.	0.9	53
97	Control of the Properties of Micrometerâ€Sized Actuators from Liquid Crystalline Elastomers Prepared in a Microfluidic Setup. Advanced Functional Materials, 2010, 20, 4314-4322.	7.8	53
98	Ferroelectric liquid crystalline elastomers, 1. Variation of network topology and orientation. Macromolecular Chemistry and Physics, 2000, 201, 902-910.	1.1	52
99	Theoretical and experimental analysis of photonic structures for fluorescent concentrators with increased efficiencies. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2811-2821.	0.8	52
100	Preparation of actuating fibres of oriented main-chain liquid crystalline elastomers by a wetspinning process. Soft Matter, 2011, 7, 3730.	1.2	52
101	From monomeric to polymeric ferroelectric liquid crystals A comparative study of ferroelectric properties. Liquid Crystals, 1995, 18, 811-818.	0.9	51
102	Manipulation of the ferroelectricity in LC polymers via photomechanical isomerization of azobenzene moieties. Macromolecular Chemistry and Physics, 1996, 197, 1805-1813.	1.1	51
103	SiRNA-mediated in vivo gene knockdown by acid-degradable cationic nanohydrogel particles. Journal of Controlled Release, 2017, 248, 10-23.	4.8	51
104	Cholesteric phases and films from cellulose derivatives. Macromolecular Chemistry and Physics, 2000, 201, 2055-2063.	1.1	50
105	Emission in a SnS2 inverted opaline photonic crystal. Applied Physics Letters, 2001, 79, 731-733.	1.5	50
106	Smectic Liquid-Crystalline Colloids by Miniemulsion Techniques. Advanced Materials, 2005, 17, 2123-2127.	11.1	50
107	Electroclinic effect in free-standing smectic elastomer films. Applied Physics A: Materials Science and Processing, 2005, 80, 381-388.	1.1	50
108	DNA Designer Defects in Photonic Crystals: Optically Monitored Biochemistry. Advanced Materials, 2006, 18, 2387-2391.	11.1	50

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109	Towards tunable defect arrangements in smectic liquid crystal shells utilizing the nematicâ€“smectic transition in hybrid-aligned geometries. Soft Matter, 2012, 8, 5443.	1.2	50
110	Templateâ€Based Fabrication of Nanometerâ€Scaled Actuators from Liquidâ€Crystalline Elastomers. Small, 2011, 7, 194-198.	5.2	49
111	Supramolecular Linear-g-Hyperbranched Graft Polymers: Topology and Binding Strength of Hyperbranched Side Chains. Macromolecules, 2013, 46, 9544-9553.	2.2	49
112	Interfacial Selfâ€Assembly of Amphiphilic Dual Temperature Responsive Actuating Janus Particles. Advanced Functional Materials, 2018, 28, 1800629.	7.8	49
113	Ferroelectric liquid-crystalline elastomers with short switching times. Macromolecular Rapid Communications, 1995, 16, 659-662.	2.0	48
114	Dielectric and electro-optical studies of a ferroelectric copolysiloxane. Physical Review B, 1994, 50, 16346-16356.	1.1	46
115	CpGâ€Loaded Multifunctional Cationic Nanohydrogel Particles as Selfâ€Adjuvanting Glycopeptide Antitumor Vaccines. Advanced Healthcare Materials, 2015, 4, 522-527.	3.9	46
116	Pyroelectric and electro-optical effects in the SmC* phase of a polysiloxane liquid crystal. Journal of Applied Physics, 1994, 75, 728-733.	1.1	45
117	Induced long-range order in crosslinked â€˜one-dimensionalâ€™ stacks of fluid monolayers. Nature, 1997, 389, 576-579.	13.7	45
118	Structure-property relationships determining the spontaneous polarization in FLC-polymers. Advanced Materials, 1992, 4, 351-354.	11.1	44
119	Time-Resolved Fourier-Transform Infrared Spectroscopy on the Inter- and Intramolecular Orientational Dynamics in Ferroelectric Liquid Crystalline Dimers. Physical Review Letters, 1997, 79, 1686-1689.	2.9	44
120	Liquid Crystal Elastomer Balloons. Macromolecules, 2001, 34, 3962-3972.	2.2	44
121	Liquid crystalline main-chain polymers containing the ferrocene unit as a side group. Macromolecular Chemistry and Physics, 1996, 197, 3259-3268.	1.1	43
122	Formation of Lipid Bilayers on a New Amphiphilic Polymer Support. Langmuir, 2000, 16, 1801-1805.	1.6	43
123	Pyrene Containing Polymers for the Nonâ€Covalent Functionalization of Carbon Nanotubes. Macromolecular Chemistry and Physics, 2009, 210, 1528-1535.	1.1	43
124	Multidentate Polysarcosine-Based Ligands for Water-Soluble Quantum Dots. Macromolecules, 2016, 49, 3663-3671.	2.2	43
125	Opalescent Cholesteric Networks from Chiral Polyisocyanates in Polystyrene. Advanced Materials, 1998, 10, 341-345.	11.1	42
126	Ferroelectric polysiloxane liquid crystals with â€˜de Vriesâ€™-type smectic A*â€“smectic C* transitions. Liquid Crystals, 2004, 31, 883-887.	0.9	42

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127	Liquid Crystalline Elastomers. Advanced Materials, 1989, 1, 321-329.	11.1	41
128	Ferroelectric liquid crystalline elastomers, 2. Variation of mesogens and network density. Macromolecular Chemistry and Physics, 2000, 201, 911-922.	1.1	41
129	Structure and elastic properties of smectic liquid crystalline elastomer films. Physical Review E, 2002, 65, 041707.	0.8	41
130	Liquid Crystals from Polymer-Functionalized TiO2 Nanorod Mesogens. Macromolecules, 2008, 41, 7946-7952.	2.2	41
131	Polymeric Selectin Ligands Mimicking Complex Carbohydrates: From Selectin Binders to Modifiers of Macrophage Migration. Angewandte Chemie - International Edition, 2017, 56, 1416-1421.	7.2	41
132	Anisotropic Particles from LC Polymers for Optical Manipulation. Macromolecules, 2006, 39, 8326-8333.	2.2	40
133	Non-ionic photo-acid generators for applications in two-photon lithography. Journal of Materials Chemistry, 2009, 19, 505-513.	6.7	40
134	72/74As-labeling of HPMA based polymers for long-term in vivo PET imaging. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5454-5458.	1.0	40
135	Liquid crystalline main chain polymers containing the ferrocene unit as a side group, 2. Variation of the spacer length. Macromolecular Chemistry and Physics, 1997, 198, 3769-3785.	1.1	39
136	Liquid Crystalline Orientation of Semiconducting Nanorods in a Semiconducting Matrix. Macromolecular Rapid Communications, 2008, 29, 922-927.	2.0	39
137	Amphiphilic HPMAâ€“LMA copolymers increase the transport of Rhodamine 123 across a BBB model without harming its barrier integrity. Journal of Controlled Release, 2012, 163, 170-177.	4.8	39
138	Linear-Hyperbranched Graft-Copolymers via Grafting-to Strategy Based on Hyperbranched Dendron Analogues and Reactive Ester Polymers. Macromolecules, 2012, 45, 5901-5910.	2.2	39
139	In Vivo Geneâ€Silencing in Fibrotic Liver by siRNAâ€Loaded Cationic Nanohydrogel Particles. Advanced Healthcare Materials, 2015, 4, 2809-2815.	3.9	39
140	Orientation and Dynamics of ZnO Nanorod Liquid Crystals in Electric Fields. Macromolecular Rapid Communications, 2010, 31, 1101-1107.	2.0	38
141	Co-flow microfluidic synthesis of liquid crystalline actuating Janus particles. Journal of Materials Chemistry C, 2016, 4, 8778-8786.	2.7	37
142	Synthesis and characterization of carbon coated sponge-like tin oxide (SnO_x) films and their application as electrode materials in lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 612-619.	5.2	37
143	Liquid-Crystalline Colloidal Particles. Macromolecular Chemistry and Physics, 2004, 205, 2303-2311.	1.1	36
144	Artificial Opals as Effect Pigments in Clear-Coatings. Macromolecular Materials and Engineering, 2004, 289, 158-163.	1.7	36

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145	Photoswitchable Smectic Liquid-Crystalline Elastomers. Macromolecular Rapid Communications, 2005, 26, 874-879.	2.0	36
146	Integration of Self-Assembled Three-Dimensional Photonic Crystals onto Structured Silicon Wafers. Langmuir, 2006, 22, 7378-7383.	1.6	36
147	Spin-Coating of Designed Functional Planar Defects in Opal Film:Â Generalized Synthesis. Chemistry of Materials, 2006, 18, 5640-5642.	3.2	36
148	Chemical Approach to Functional Artificial Opals. Macromolecular Rapid Communications, 2007, 28, 1291-1311.	2.0	36
149	Degradable Cationic Nanohydrogel Particles for Stimuliâ€Responsive Release of siRNA. Macromolecular Rapid Communications, 2014, 35, 2057-2064.	2.0	36
150	A Deeper Insight into the Postpolymerization Modification of Polypenta Fluorophenyl Methacrylates to Poly(Nâ€(2â€Hydroxypropyl) Methacrylamide). Macromolecular Rapid Communications, 2014, 35, 1522-1527.	2.0	36
151	Reduced efficiency roll-off in light-emitting diodes enabled by quantum dotâ€“conducting polymer nanohybrids. Journal of Materials Chemistry C, 2014, 2, 4974-4979.	2.7	36
152	Reductive Decationizable Block Copolymers for Stimuli-Responsive mRNA Delivery. Macromolecular Rapid Communications, 2016, 37, 924-933.	2.0	36
153	Immunomodulatory Therapy of Inflammatory Liver Disease Using Selectin-Binding Glycopolymers. ACS Nano, 2017, 11, 9689-9700.	7.3	36
154	In Vivo siRNA Delivery to Immunosuppressive Liver Macrophages by Î±-Mannosyl-Functionalized Cationic Nanohydrogel Particles. Cells, 2020, 9, 1905.	1.8	36
155	Phase behavior and elastic properties of a slightly crosslinked liquid crystalline main-chain polymer. Colloid and Polymer Science, 1990, 268, 222-229.	1.0	35
156	Microactuators from a main-chain liquid crystalline elastomer via thiolâ€“ene â€œclickâ€•chemistry. Journal of Materials Chemistry C, 2013, 1, 5885.	2.7	35
157	Synthesis, Characterization and Preliminary Biological Evaluation of P(HPMA)â€bâ€P(LLA) Copolymers: A New Type of Functional Biocompatible Block Copolymer. Macromolecular Rapid Communications, 2010, 31, 1492-1500.	2.0	34
158	P(HPMA)-block-P(LA) copolymers in paclitaxel formulations: Polylactide stereochemistry controls micellization, cellular uptake kinetics, intracellular localization and drug efficiency. Journal of Controlled Release, 2012, 163, 63-74.	4.8	34
159	Actuating thermo- and photo-responsive tubes from liquid crystalline elastomers. Journal of Materials Chemistry C, 2018, 6, 9093-9101.	2.7	34
160	Mechanical Deformation Behavior in Highly Anisotropic Elastomers Made from Ferroelectric Liquid Crystalline Polymers. Langmuir, 1999, 15, 274-278.	1.6	33
161	Photoresponsive Ferroelectric Liquid-Crystalline Polymers. Advanced Functional Materials, 2007, 17, 109-114.	7.8	33
162	Liquidâ€Crystalline Elastomer Fibers Prepared in a Microfluidic Device. Macromolecular Chemistry and Physics, 2014, 215, 1004-1011.	1.1	33

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163	The Role of Emission Layer Morphology on the Enhanced Performance of Lightâ€Emitting Diodes Based on Quantum Dotâ€Semiconducting Polymer Hybrids. Advanced Materials Interfaces, 2016, 3, 1600279.	1.9	33
164	Combined LC main chain/side chain polymers. Acta Polymerica, 1996, 47, 141-149.	1.4	32
165	Self-assembly of three-dimensional photonic crystals on structured silicon wafers. Applied Physics Letters, 2002, 81, 2689-2691.	1.5	32
166	(Photo)crosslinkable Smectic LC Mainâ€Chain Polymers. Macromolecular Chemistry and Physics, 2007, 208, 2439-2448.	1.1	32
167	Functional Polymerâ€Opals from Coreâ€“Shell Colloids. Macromolecular Rapid Communications, 2007, 28, 1987-1994.	2.0	32
168	The effect of band gap alignment on the hole transport from semiconducting block copolymers to quantum dots. Journal of Materials Chemistry C, 2013, 1, 1722.	2.7	32
169	Morphology Control in Biphasic Hybrid Systems of Semiconducting Materials. Macromolecular Rapid Communications, 2015, 36, 959-983.	2.0	32
170	Influence of a Crosslinker Containing an Azo Group on the Actuation Properties of a Photoactuating LCE System. Polymers, 2016, 8, 435.	2.0	32
171	Microfluidic Synthesis of Liquid Crystalline Elastomer Particle Transport Systems which Can Be Remoteâ€Controlled Magnetically. Advanced Functional Materials, 2019, 29, 1902454.	7.8	32
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