

Ryan C Hayward

List of Publications by Year in descending order

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146
papers

12,476
citations

28190

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156
all docs

156
docs citations

156
times ranked

13229
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-Changing Particles: From Materials Design and Mechanisms to Implementation. <i>Advanced Materials</i> , 2022, 34, e2105758.	11.1	19
2	Temperature sensing using junctions between mobile ions and mobile electrons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	15
3	Triplet-Triplet Annihilation Photopolymerization for High-Resolution 3D Printing. <i>Journal of the American Chemical Society</i> , 2022, 144, 5226-5232.	6.6	44
4	Impact of Composition and Placement of Hydrogen-Bonding Groups along Polymer Chains on Blend Phase Behavior: Coarse-Grained Molecular Dynamics Simulation Study. <i>Macromolecules</i> , 2022, 55, 2675-2690.	2.2	11
5	Formation of rolls from liquid crystal elastomer bistraps. <i>Soft Matter</i> , 2022, 18, 4077-4089.	1.2	2
6	Photomechanical Structures Based on Porous Alumina Templates Filled with 9-Methylanthracene Nanowires. <i>Crystals</i> , 2022, 12, 808.	1.0	1
7	Focusing frustration for self-limiting assembly of flexible, curved particles. <i>Physical Review Research</i> , 2022, 4, .	1.3	5
8	Measuring the five elastic constants of a nematic liquid crystal elastomer. <i>Liquid Crystals</i> , 2021, 48, 511-520.	0.9	9
9	Bridging photochemistry and photomechanics with NMR crystallography: the molecular basis for the macroscopic expansion of an anthracene ester nanorod. <i>Chemical Science</i> , 2021, 12, 453-463.	3.7	23
10	Coupled oscillation and spinning of photothermal particles in Marangoni optical traps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	17
11	Complex Coacervation of Polymerized Ionic Liquids in Non-aqueous Solvents. <i>ACS Polymers Au</i> , 2021, 1, 100-106.	1.7	7
12	Multiblock Copolymer Anion-Exchange Membranes Derived from Vinyl Addition Polynorbornenes. <i>ACS Applied Energy Materials</i> , 2021, 4, 10273-10279.	2.5	15
13	Simultaneous control of Gaussian curvature and buckling direction by swelling of asymmetric trilayer hydrogel hybrids. <i>Soft Matter</i> , 2020, 16, 688-694.	1.2	13
14	Reconfiguring Gaussian Curvature of Hydrogel Sheets with Photoswitchable Host-Guest Interactions. <i>ACS Macro Letters</i> , 2020, 9, 1172-1177.	2.3	24
15	Assembly of Disordered Cocontinuous Morphologies by Multiblock Copolymers with Random Block Sequence and Length Dispersity. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3282-3290.	2.0	7
16	Low-Voltage Reversible Electroadhesion of Ionoelastomer Junctions. <i>Advanced Materials</i> , 2020, 32, e2000600.	11.1	52
17	Reversible Actuation via Photoisomerization-Induced Melting of a Semicrystalline Poly(Azobenzene). <i>ACS Macro Letters</i> , 2020, 9, 902-909.	2.3	46
18	Polymer Zwitterions for Stabilization of CsPbBr ₃ Perovskite Nanoparticles and Nanocomposite Films. <i>Angewandte Chemie</i> , 2020, 132, 10894-10898.	1.6	14

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19	Blueprinting Photothermal Shape-Morphing of Liquid Crystal Elastomers. <i>Advanced Materials</i> , 2020, 32, e2000609.	11.1	110
20	Polymer Zwitterions for Stabilization of CsPbBr ₃ Perovskite Nanoparticles and Nanocomposite Films. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10802-10806.	7.2	49
21	Ionoelastomer junctions between polymer networks of fixed anions and cations. <i>Science</i> , 2020, 367, 773-776.	6.0	188
22	Harnessing Multiple Surface Deformation Modes for Switchable Conductivity Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10031-10038.	4.0	5
23	A nonlinear beam model of photomotile structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9762-9770.	3.3	60
24	Photomechanical molecular crystals and nanowire assemblies based on the [2+2] photodimerization of a phenylbutadiene derivative. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5036-5044.	2.7	49
25	Enabling Robust Self-Folding Origami by Pre-Biasing Vertex Buckling Direction. <i>Advanced Materials</i> , 2019, 31, e0193006.	11.1	32
26	Multiaddressable Photochromic Architectures: From Molecules to Materials. <i>Advanced Optical Materials</i> , 2019, 7, 1900224.	3.6	78
27	Tuning Metastability of Poly(3-hexyl thiophene) Solutions to Enable in Situ Atomic Force Microscopy Imaging of Surface Nucleation. <i>Macromolecules</i> , 2019, 52, 7756-7761.	2.2	7
28	Biasing Buckling Direction in Shape-Programmable Hydrogel Sheets with Through-Thickness Gradients. <i>Advanced Functional Materials</i> , 2019, 29, 1905273.	7.8	39
29	Light-induced shape morphing of thin films. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 40, 70-86.	3.4	38
30	Functional polymers for growth and stabilization of CsPbBr ₃ perovskite nanoparticles. <i>Chemical Communications</i> , 2019, 55, 1833-1836.	2.2	32
31	Light-Driven Shape Morphing, Assembly, and Motion of Nanocomposite Gel Surfers. <i>Advanced Materials</i> , 2019, 31, e1900932.	11.1	57
32	Liquid Crystal Elastomer Waveguide Actuators. <i>Advanced Materials</i> , 2019, 31, e1901216.	11.1	62
33	Elastocapillary Crease. <i>Physical Review Letters</i> , 2019, 122, 098003.	2.9	18
34	Effects of Randomly End-Linked Copolymer Network Parameters on the Formation of Disordered Cocontinuous Phases. <i>Macromolecules</i> , 2019, 52, 2642-2650.	2.2	14
35	Ring-Opening Polymerization of Allyl-Functionalized Lactams. <i>Macromolecules</i> , 2019, 52, 167-175.	2.2	11
36	Overcurvature induced multistability of linked conical frusta: how a "bendy straw" holds its shape. <i>Soft Matter</i> , 2018, 14, 8636-8642.	1.2	17

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37	Formation of high aspect ratio wrinkles and ridges on elastic bilayers with small thickness contrast. <i>Soft Matter</i> , 2018, 14, 8545-8551.	1.2	24
38	Photothermocapillary Oscillators. <i>Physical Review Letters</i> , 2018, 121, 158001.	2.9	27
39	Orthogonal Ambipolar Semiconductors with Inherently Multi-Dimensional Responses for the Discriminative Sensing of Chemical Vapors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33353-33359.	4.0	7
40	Stress-Induced Orientation of Cocontinuous Nanostructures within Randomly End-Linked Copolymer Networks. <i>ACS Macro Letters</i> , 2018, 7, 828-833.	2.3	11
41	Effects of Stiff Film Pattern Geometry on Surface Buckling Instabilities of Elastic Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23406-23413.	4.0	20
42	Assembly of P3HT/CdSe nanowire networks in an insulating polymer host. <i>Soft Matter</i> , 2018, 14, 5327-5332.	1.2	4
43	Programmable and reversible assembly of soft capillary multipoles. <i>Materials Horizons</i> , 2017, 4, 228-235.	6.4	20
44	Reconfigurable Microscale Frameworks from Concatenated Helices with Controlled Chirality. <i>Advanced Materials</i> , 2017, 29, 1606111.	11.1	53
45	Shape-Morphing Materials from Stimuli-Responsive Hydrogel Hybrids. <i>Accounts of Chemical Research</i> , 2017, 50, 161-169.	7.6	360
46	Tunable Upper Critical Solution Temperature of Poly(<i>N</i> -isopropylacrylamide) in Ionic Liquids for Sequential and Reversible Self-Folding. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15785-15790.	4.0	30
47	Post-wrinkle bifurcations in elastic bilayers with modest contrast in modulus. <i>Extreme Mechanics Letters</i> , 2017, 11, 30-36.	2.0	28
48	Ion transport properties of mechanically stable symmetric ABCBA pentablock copolymers with quaternary ammonium functionalized midblock. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 612-622.	2.4	21
49	Architectural Effects on Solution Self-Assembly of Poly(3-hexylthiophene)-Based Graft Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2933-2941.	4.0	12
50	3D-Printed Self-Folding Electronics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32290-32298.	4.0	90
51	Forming Sticky Droplets from Slippery Polymer Zwitterions. <i>Advanced Materials</i> , 2017, 29, 1702921.	11.1	23
52	Anisotropic and Interconnected Nanoporous Materials from Randomly End-Linked Copolymer Networks. <i>Macromolecules</i> , 2017, 50, 4668-4676.	2.2	26
53	Reversible Electrochemically Triggered Delamination Blistering of Hydrogel Films on Micropatterned Electrodes. <i>Advanced Functional Materials</i> , 2016, 26, 3218-3225.	7.8	28
54	Random photografting of polymers to nanoparticles for well-dispersed nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 152-158.	2.4	7

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55	Waveguiding Microactuators Based on a Photothermally Responsive Nanocomposite Hydrogel. <i>Advanced Functional Materials</i> , 2016, 26, 5447-5452.	7.8	84
56	Photocrosslinkable Nanocomposite Multilayers for Responsive 1D Photonic Crystals. <i>Advanced Functional Materials</i> , 2016, 26, 722-728.	7.8	34
57	Particles with Tunable Porosity and Morphology by Controlling Interfacial Instability in Block Copolymer Emulsions. <i>ACS Nano</i> , 2016, 10, 5243-5251.	7.3	92
58	Grayscale gel lithography for programmed buckling of non-Euclidean hydrogel plates. <i>Soft Matter</i> , 2016, 12, 4985-4990.	1.2	72
59	Orthogonal Ambipolar Semiconductor Nanostructures for Complementary Logic Gates. <i>ACS Nano</i> , 2016, 10, 8610-8619.	7.3	17
60	Reconfiguring Nanocomposite Liquid Crystal Polymer Films with Visible Light. <i>Macromolecules</i> , 2016, 49, 1575-1581.	2.2	55
61	Photothermally Reprogrammable Buckling of Nanocomposite Gel Sheets. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5434-5437.	7.2	126
62	Bifurcation Diagrams for the Formation of Wrinkles or Creases in Soft Bilayers. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015, 82, .	1.1	48
63	Creased hydrogels as active platforms for mechanical deformation of cultured cells. <i>Lab on A Chip</i> , 2015, 15, 1160-1167.	3.1	15
64	Tailoring Ultrasound-Induced Growth of Perylene Diimide Nanowire Crystals from Solution by Modification with Poly(3-hexyl thiophene). <i>ACS Nano</i> , 2015, 9, 1878-1885.	7.3	35
65	Measuring the Elastic Modulus of Thin Polymer Sheets by Elastocapillary Bending. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14734-14742.	4.0	25
66	Using Janus Nanoparticles To Trap Polymer Blend Morphologies during Solvent-Evaporation-Induced Demixing. <i>Macromolecules</i> , 2015, 48, 4220-4227.	2.2	81
67	Selective Nucleation of Poly(3-hexyl thiophene) Nanofibers on Multilayer Graphene Substrates. <i>ACS Macro Letters</i> , 2015, 4, 483-487.	2.3	34
68	Origami structures with a critical transition to bistability arising from hidden degrees of freedom. <i>Nature Materials</i> , 2015, 14, 389-393.	13.3	382
69	Photopatternable Biodegradable Aliphatic Polyester with Pendent Benzophenone Groups. <i>Biomacromolecules</i> , 2015, 16, 3329-3335.	2.6	16
70	Functional Sulfobetaine Polymers: Synthesis and Salt-Responsive Stabilization of Oil-in-Water Droplets. <i>Macromolecules</i> , 2015, 48, 7843-7850.	2.2	29
71	Geometrically controlled snapping transitions in shells with curved creases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11175-11180.	3.3	67
72	Water Processable Polythiophene Nanowires by Photo-Cross-Linking and Click-Functionalization. <i>Nano Letters</i> , 2015, 15, 5689-5695.	4.5	31

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73	Programming Reversibly Self-Folding Origami with Micropatterned Photo-Crosslinkable Polymer Trilayers. <i>Advanced Materials</i> , 2015, 27, 79-85.	11.1	381
74	Photonic polymer multilayers for colorimetric radiation sensing. <i>Sensors and Actuators B: Chemical</i> , 2015, 208, 85-89.	4.0	3
75	Fluorescence imaging of nanoscale domains in polymer blends using stochastic optical reconstruction microscopy (STORM). <i>Optics Express</i> , 2014, 22, 8438.	1.7	30
76	Osmotically Driven Formation of Double Emulsions Stabilized by Amphiphilic Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8240-8245.	7.2	59
77	Wide Bicontinuous Compositional Windows from Co-Networks Made with Telechelic Macromonomers. <i>ACS Nano</i> , 2014, 8, 12376-12385.	7.3	58
78	Patterning Nanoparticles into Rings by α -2-D Pickering Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4850-4855.	4.0	5
79	Effect of Polymer Chain Folding on the Transition from H- to J-Aggregate Behavior in P3HT Nanofibers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2229-2235.	1.5	91
80	Edge-defined metric buckling of temperature-responsive hydrogel ribbons and rings. <i>Polymer</i> , 2014, 55, 5908-5914.	1.8	38
81	Controlled formation and disappearance of creases. <i>Materials Horizons</i> , 2014, 1, 207-213.	6.4	32
82	The role of substrate pre-stretch in post-wrinkling bifurcations. <i>Soft Matter</i> , 2014, 10, 6520.	1.2	46
83	Creases on the interface between two soft materials. <i>Soft Matter</i> , 2014, 10, 303-311.	1.2	32
84	Robust polythiophene nanowires cross-linked with functional fullerenes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9674-9682.	2.7	5
85	Stimuli-responsive buckling mechanics of polymer films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1441-1461.	2.4	98
86	Reversible, Self Cross-Linking Nanowires from Thiol-Functionalized Polythiophene Diblock Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7705-7711.	4.0	19
87	Using origami design principles to fold reprogrammable mechanical metamaterials. <i>Science</i> , 2014, 345, 647-650.	6.0	714
88	Mechanically Gated Electrical Switches by Creasing of Patterned Metal/Elastomer Bilayer Films. <i>Advanced Materials</i> , 2014, 26, 4381-4385.	11.1	55
89	Characterization of Heterogeneous Polyacrylamide Hydrogels by Tracking of Single Quantum Dots. <i>Macromolecules</i> , 2014, 47, 741-749.	2.2	57
90	Nonuniform growth and topological defects in the shaping of elastic sheets. <i>Soft Matter</i> , 2014, 10, 6382-6386.	1.2	13

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91	Thermally Reversible Aggregation of Gold Nanoparticles in Polymer Nanocomposites through Hydrogen Bonding. <i>Nano Letters</i> , 2013, 13, 5297-5302.	4.5	67
92	Swelling-driven rolling and anisotropic expansion of striped gel sheets. <i>Soft Matter</i> , 2013, 9, 8264.	1.2	77
93	Tuning Innate Immune Activation by Surface Texturing of Polymer Microparticles: The Role of Shape in Inflammasome Activation. <i>Journal of Immunology</i> , 2013, 190, 3525-3532.	0.4	79
94	Low-voltage Switching of Crease Patterns on Hydrogel Surfaces. <i>Advanced Materials</i> , 2013, 25, 5555-5559.	11.1	35
95	Thermally responsive rolling of thin gel strips with discrete variations in swelling. <i>Soft Matter</i> , 2012, 8, 2375.	1.2	179
96	Surface Energy as a Barrier to Creasing of Elastomer Films: An Elastic Analogy to Classical Nucleation. <i>Physical Review Letters</i> , 2012, 109, 038001.	2.9	71
97	Promoting Network Formation in Nanorod-filled Binary Blends. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1411, 75.	0.1	0
98	Gelation of Copolymers with Pendent Benzophenone Photo-Cross-Linkers. <i>Macromolecules</i> , 2012, 45, 5237-5246.	2.2	92
99	Creasing instability of elastomer films. <i>Soft Matter</i> , 2012, 8, 1301-1304.	1.2	114
100	Kinetic stabilities of bis-terpyridine complexes with iron(ii) and cobalt(ii) in organic solvent environments. <i>Journal of Materials Chemistry</i> , 2012, 22, 21366.	6.7	23
101	Probing Inter- and Intrachain Exciton Coupling in Isolated Poly(3-hexylthiophene) Nanofibers: Effect of Solvation and Regioregularity. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1674-1679.	2.1	55
102	Photonic Multilayer Sensors from Photo-crosslinkable Polymer Films. <i>Advanced Materials</i> , 2012, 24, 6100-6104.	11.1	95
103	Substituent effects on the stabilities of polymeric and small molecule bis-terpyridine complexes. <i>Polymer Chemistry</i> , 2012, 3, 1221.	1.9	20
104	Mimicking dynamic in vivo environments with stimuli-responsive materials for cell culture. <i>Trends in Biotechnology</i> , 2012, 30, 426-439.	4.9	103
105	Growth of Polythiophene/Perylene Tetracarboxydiimide Donor/Acceptor Shish-Kebab Nanostructures by Coupled Crystal Modification. <i>ACS Nano</i> , 2012, 6, 10924-10929.	7.3	65
106	Nanocomposite "Superhighways" by Solution Assembly of Semiconductor Nanostructures with Ligand-functionalized Conjugated Polymers. <i>Advanced Materials</i> , 2012, 24, 2254-2258.	11.1	59
107	Multifunctional Nanoparticle-loaded Spherical and Wormlike Micelles Formed by Interfacial Instabilities. <i>Advanced Materials</i> , 2012, 24, 2735-2741.	11.1	83
108	Fabrication of Co-continuous Nanostructured and Porous Polymer Membranes: Spinodal Decomposition of Homopolymer and Random Copolymer Blends. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4089-4094.	7.2	38

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109	Local Switching of Chemical Patterns through Light-Triggered Unfolding of Creased Hydrogel Surfaces. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7146-7149.	7.2	77
110	Designing Responsive Buckled Surfaces by Halftone Gel Lithography. <i>Science</i> , 2012, 335, 1201-1205.	6.0	727
111	Interfacial tension of evaporating emulsion droplets containing amphiphilic block copolymers: Effects of solvent and polymer composition. <i>Journal of Colloid and Interface Science</i> , 2012, 365, 275-279.	5.0	48
112	Nanoparticle-Stabilized Double Emulsions and Compressed Droplets. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 145-149.	7.2	34
113	Kinetically Trapped Co-continuous Polymer Morphologies through Intraphase Gelation of Nanoparticles. <i>Nano Letters</i> , 2011, 11, 1997-2003.	4.5	107
114	Assembly of Poly(3-hexylthiophene)/CdSe Hybrid Nanowires by Cocrystallization. <i>Macromolecules</i> , 2011, 44, 1768-1770.	2.2	40
115	Cross-Linked Conjugated Polymer Fibrils: Robust Nanowires from Functional Polythiophene Diblock Copolymers. <i>Chemistry of Materials</i> , 2011, 23, 4250-4256.	3.2	54
116	Hierarchical Helical Assembly of Conjugated Poly(3-hexylthiophene)- <i>block</i> -poly(3-triethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.6	207
117	Proton conduction in discotic mesogens. <i>Chemical Communications</i> , 2011, 47, 5566-5568.	2.2	28
118	Enhancement of anhydrous proton transport by supramolecular nanochannels in comb polymers. <i>Nature Chemistry</i> , 2010, 2, 503-508.	6.6	148
119	Dynamic display of biomolecular patterns through an elastic creasing instability of stimuli-responsive hydrogels. <i>Nature Materials</i> , 2010, 9, 159-164.	13.3	241
120	Surface Creasing Instability of Soft Polyacrylamide Cell Culture Substrates. <i>Biophysical Journal</i> , 2010, 99, L94-L96.	0.2	72
121	Solvent-Driven Evolution of Block Copolymer Morphology under 3D Confinement. <i>Macromolecules</i> , 2010, 43, 7807-7812.	2.2	127
122	Synthesis of End-Functionalized Polystyrene by Direct Nucleophilic Addition of Polystyryllithium to Bipyridine or Terpyridine. <i>Macromolecules</i> , 2010, 43, 3249-3255.	2.2	9
123	Tailored Assemblies of Block Copolymers in Solution: It Is All about the Process. <i>Macromolecules</i> , 2010, 43, 3577-3584.	2.2	474
124	Nucleation, growth, and hysteresis of surface creases on swelled polymer gels. <i>Soft Matter</i> , 2010, 6, 5807.	1.2	77
125	Poroelastic swelling kinetics of thin hydrogel layers: comparison of theory and experiment. <i>Soft Matter</i> , 2010, 6, 6004.	1.2	186
126	Control of internal (2D and 3D hexagonal) mesostructure and particle morphology of spherical mesoporous silica particles using the emulsion and solvent evaporation (ESE) method. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 359-367.	2.2	9

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127	Tuning the assembly of amphiphilic block copolymers through instabilities of solvent/water interfaces in the presence of aqueous surfactants. <i>Soft Matter</i> , 2009, 5, 2471.	1.2	73
128	Hierarchically Structured Microparticles Formed by Interfacial Instabilities of Emulsion Droplets Containing Amphiphilic Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2113-2116.	7.2	108
129	Surface Wrinkles for Smart Adhesion. <i>Advanced Materials</i> , 2008, 20, 711-716.	11.1	451
130	Creasing instability of surface-attached hydrogels. <i>Soft Matter</i> , 2008, 4, 564.	1.2	247
131	Wormlike Micelles with Microphase-Separated Cores from Blends of Amphiphilic AB and Hydrophobic BC Diblock Copolymers. <i>Macromolecules</i> , 2008, 41, 7794-7797.	2.2	53
132	Spontaneous Generation of Amphiphilic Block Copolymer Micelles with Multiple Morphologies through Interfacial Instabilities. <i>Journal of the American Chemical Society</i> , 2008, 130, 7496-7502.	6.6	191
133	Dewetting Instability during the Formation of Polymersomes from Block-Copolymer-Stabilized Double Emulsions. <i>Langmuir</i> , 2006, 22, 4457-4461.	1.6	155
134	Single-Crystal Mesoporous Silica Ribbons. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 332-336.	7.2	50
135	Crosslinked Poly(styrene)-block-Poly(2-vinylpyridine) Thin Films as Swellable Templates for Mesostructured Silica and Titania. <i>Advanced Materials</i> , 2005, 17, 2591-2595.	11.1	72
136	Shear Rheology of Lyotropic Liquid Crystals: A Case Study. <i>Langmuir</i> , 2005, 21, 3322-3333.	1.6	317
137	Template Cross-Linking Effects on Morphologies of Swellable Block Copolymer and Mesostructured Silica Thin Films. <i>Macromolecules</i> , 2005, 38, 7768-7783.	2.2	71
138	Structure of a Surfactant-Templated Silicate Framework in the Absence of 3D Crystallinity. <i>Journal of the American Chemical Society</i> , 2004, 126, 9425-9432.	6.6	96
139	Thin Films of Bicontinuous Cubic Mesostructured Silica Templated by a Nonionic Surfactant. <i>Langmuir</i> , 2004, 20, 5998-6004.	1.6	54
140	Mesostructured Silica/Block Copolymer Composites as Hosts for Optically Limiting Tetraphenylporphyrin Dye Molecules. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11909-11914.	1.2	29
141	Ordering and Melting of Block Copolymer Spherical Domains in 2 and 3 Dimensions. <i>Macromolecules</i> , 2003, 36, 3272-3288.	2.2	161
142	General Predictive Syntheses of Cubic, Hexagonal, and Lamellar Silica and Titania Mesostructured Thin Films. <i>Chemistry of Materials</i> , 2002, 14, 3284-3294.	3.2	666
143	The current role of mesostructures in composite materials and device fabrication. <i>Microporous and Mesoporous Materials</i> , 2001, 44-45, 619-624.	2.2	56
144	Electrophoretic assembly of colloidal crystals with optically tunable micropatterns. <i>Nature</i> , 2000, 404, 56-59.	13.7	561

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145	Excluded-Volume Effects in Polymer Solutions. 2. Comparison of Experimental Results with Numerical Simulation Data. <i>Macromolecules</i> , 1999, 32, 3510-3517.	2.2	59
146	Excluded Volume Effects in Polymer Solutions. 1. Dilute Solution Properties of Linear Chains in Good and θ Solvents. <i>Macromolecules</i> , 1999, 32, 3502-3509.	2.2	44