

Edwin L Thomas

List of Publications by Year in descending order

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381
papers

28,736
citations

3933

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all docs

397
docs citations

397
times ranked

18119
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Strength, Microporous, Two-Dimensional Polymer Thin Films with Rigid Benzoxazole Linkage. ACS Applied Materials & Interfaces, 2022, 14, 1861-1873.	8.0	7
2	Visualization of nonsingular defect enabling rapid control of structural color. Science Advances, 2022, 8, eabm5120.	10.3	12
3	High-velocity micro-projectile impact testing. Applied Physics Reviews, 2021, 8, .	11.3	46
4	Visualizing the double-gyroid twin. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
5	Nanonetwork Thermosets from Templated Polymerization for Enhanced Energy Dissipation. Nano Letters, 2021, 21, 3355-3363.	9.1	17
6	Extreme Tribological Characteristics of Copolymers Induced by Dynamic Rheological Instability. ACS Applied Polymer Materials, 2021, 3, 4413-4418.	4.4	5
7	Origins of size effects in initially dislocation-free single-crystal silver micro- and nanocubes. Acta Materialia, 2021, 214, 117020.	7.9	14
8	Block Copolymers beneath the Surface: Measuring and Modeling Complex Morphology at the Subdomain Scale. Macromolecules, 2021, 54, 9223-9257.	4.8	27
9	Projectile Impact Shock-Induced Deformation of One-Component Polymer Nanocomposite Thin Films. ACS Nano, 2021, 15, 2439-2446.	14.6	20
10	Extreme Energy Dissipation via Material Evolution in Carbon Nanotube Mats. Advanced Science, 2021, 8, 2003142.	11.2	9
11	Synthesis and Characterization of Asymmetric A ₁ BA ₂ Supramolecular Triblock Copolymers via Noncovalent Interactions: A Solution and Solid-State Study. Macromolecules, 2021, 54, 10730-10739.	4.8	1
12	Dynamic martensitic phase transformation in single-crystal silver microcubes. Acta Materialia, 2020, 182, 131-143.	7.9	24
13	Networks with controlled chirality via self-assembly of chiral triblock terpolymers. Science Advances, 2020, 6, .	10.3	36
14	3D touchless multiorder reflection structural color sensing display. Science Advances, 2020, 6, eabb5769.	10.3	81
15	Alternating Gyroid Network Structure in an ABC Miktoarm Terpolymer Comprised of Polystyrene and Two Polydienes. Nanomaterials, 2020, 10, 1497.	4.1	8
16	Dendrons and Dendritic Terpolymers: Synthesis, Characterization and Self-Assembly Comparison. Molecules, 2020, 25, 6030.	3.8	4
17	Complex Star Architectures of Well-Defined Polyethylene-Based Co/Terpolymers. Macromolecules, 2020, 53, 4355-4365.	4.8	11
18	1D hypo-crystals: A novel concept for the crystallization of stereo-irregular polymers. Materials Today, 2020, 40, 26-37.	14.2	13

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19	Determination of the Complete Elasticity of Nephila pilipes Spider Silk. Biomacromolecules, 2020, 21, 1179-1185.	5.4	17
20	Asymmetric acoustic energy transport in non-Hermitian metamaterials. Journal of the Acoustical Society of America, 2019, 146, 863-872.	1.1	15
21	Synthesis and Self-Assembly of Well-Defined Star and Tadpole Homo-/Co-/Terpolymers. Macromolecules, 2019, 52, 5583-5589.	4.8	15
22	Seeing mesoatomic distortions in soft-matter crystals of a double-gyroid block copolymer. Nature, 2019, 575, 175-179.	27.8	78
23	Interfacial Engineering of Reduced Graphene Oxide for Aramid Nanofiberâ€Enabled Structural Supercapacitors. Batteries and Supercaps, 2019, 2, 464-472.	4.7	29
24	Topological defects in tubular network block copolymers. Polymer, 2019, 168, 44-52.	3.8	14
25	Generalizing the effects of chirality on block copolymer assembly. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4080-4089.	7.1	37
26	Anatomy of triply-periodic network assemblies: characterizing skeletal and inter-domain surface geometry of block copolymer gyroids. Soft Matter, 2018, 14, 3612-3623.	2.7	29
27	Nanoscale 3D ordered polymer networks. Science China Chemistry, 2018, 61, 25-32.	8.2	16
28	Size Effects in Single-Crystal Metallic Micro- and Nanocubes. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 47-49.	0.5	0
29	Extreme Energy Absorption in Glassy Polymer Thin Films by Supersonic Micro-projectile Impact. Materials Today, 2018, 21, 817-824.	14.2	55
30	Nanoscale Multifunctional Tubular Networks. , 2018, , .		0
31	Printable and Rewritable Full Block Copolymer Structural Color. Advanced Materials, 2017, 29, 1700084.	21.0	100
32	Synthesis of Monodisperse Single Crystalline Ag Microcubes via Seed-Mediated Growth. Crystal Growth and Design, 2017, 17, 284-289.	3.0	17
33	High-Resolution Quantum Dot Photopatterning via Interference Lithography Assisted Microstamping. Journal of Physical Chemistry C, 2017, 121, 13370-13380.	3.1	14
34	Thickness-Dependent Order-to-Order Transitions of Bolaform-like Giant Surfactant in Thin Films. Macromolecules, 2017, 50, 7282-7290.	4.8	19
35	3D printed stretching-dominated micro-trusses. Materials and Design, 2017, 134, 272-280.	7.0	94
36	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. Nature Communications, 2017, 8, 1653.	12.8	66

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37	Asymmetric diffraction from two-component optical gratings made of passive and lossy materials. Optics Express, 2016, 24, 30164.	3.4	2
38	Synthesis, characterization and self-assembly of well-defined linear heptablock quaterpolymers. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1443-1449.	2.1	13
39	Crafting Core/Graded Shell-Shell Quantum Dots with Suppressed Reabsorption and Tunable Stokes Shift as High Optical Gain Materials. Angewandte Chemie - International Edition, 2016, 55, 5071-5075.	13.8	42
40	Focused laser-induced marangoni dewetting for patterning polymer thin films. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 225-236.	2.1	28
41	Enthalpy-Driven Swelling of Photonic Block Polymer Films. Macromolecules, 2016, 49, 8971-8979.	4.8	44
42	Nonlinear control of high-frequency phonons in spider silk. Nature Materials, 2016, 15, 1079-1083.	27.5	49
43	Dynamic creation and evolution of gradient nanostructure in single-crystal metallic microcubes. Science, 2016, 354, 312-316.	12.6	95
44	Crafting Core/Graded Shell-Shell Quantum Dots with Suppressed Reabsorption and Tunable Stokes Shift as High Optical Gain Materials. Angewandte Chemie, 2016, 128, 5155-5159.	2.0	8
45	Tunable Affinity and Molecular Architecture Lead to Diverse Self-Assembled Supramolecular Structures in Thin Films. ACS Nano, 2016, 10, 919-929.	14.6	47
46	Immiscible polydiene blocks in linear copolymer and terpolymer sequences. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1238-1246.	2.1	9
47	Stimulus-Responsive Thin-Film Photonic Crystals from Rapid Self-Assembly of Block Copolymers for Photopatterning. Advanced Optical Materials, 2015, 3, 1517-1523.	7.3	19
48	Large-Area Block Copolymer Photonic Gel Films with Solvent-Evaporation-Induced Red- and Blue-Shift Reflective Bands. Macromolecules, 2015, 48, 4004-4011.	4.8	31
49	Electrically Tunable Soft-Solid Block Copolymer Structural Color. ACS Nano, 2015, 9, 12158-12167.	14.6	67
50	Photonic Crystal. , 2014, , 1-9.		0
51	Dynamic mechanical behavior of multilayer graphene via supersonic projectile penetration. Science, 2014, 346, 1092-1096.	12.6	329
52	25th Anniversary Article: Ordered Polymer Structures for the Engineering of Photons and Phonons. Advanced Materials, 2014, 26, 532-569.	21.0	205
53	Shifting Networks to Achieve Subgroup Symmetry Properties. Advanced Materials, 2014, 26, 3225-3229.	21.0	57
54	Responsive Block Copolymer Photonics Triggered by Protein-Polyelectrolyte Coacervation. ACS Nano, 2014, 8, 11467-11473.	14.6	50

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55	Photonic Block Copolymer Films Swollen with an Ionic Liquid. <i>Macromolecules</i> , 2014, 47, 4103-4109.	4.8	59
56	Nanoporous Silicon Oxide Memory. <i>Nano Letters</i> , 2014, 14, 4694-4699.	9.1	62
57	Polyol synthesis of silver nanocubes via moderate control of the reaction atmosphere. <i>Journal of Colloid and Interface Science</i> , 2014, 435, 105-111.	9.4	25
58	Alignment and reordering of a block copolymer by solvent-enhanced thermal laser direct write. <i>Polymer</i> , 2014, 55, 1875-1882.	3.8	45
59	Defects, Solvent Quality, and Photonic Response in Lamellar Block Copolymer Gels. <i>Macromolecules</i> , 2014, 47, 1130-1136.	4.8	30
60	Phase-Separated Polymers: Nanostructures Derived from. , 2014, , 3615-3630.		0
61	Dynamic Changes in Structural Color of a Lamellar Block Copolymer Photonic Gel during Solvent Evaporation. <i>Macromolecules</i> , 2013, 46, 6528-6532.	4.8	21
62	Phase Transitions of Polystyrene- <i>b</i> -poly(dimethylsiloxane) in Solvents of Varying Selectivity. <i>Macromolecules</i> , 2013, 46, 7513-7524.	4.8	67
63	Host-Guest Self-assembly in Block Copolymer Blends. <i>Scientific Reports</i> , 2013, 3, 3190.	3.3	34
64	Carbon Nanotube Core Graphitic Shell Hybrid Fibers. <i>ACS Nano</i> , 2013, 7, 10971-10977.	14.6	18
65	An optimal substrate design for SERS: dual-scale diamond-shaped gold nano-structures fabricated via interference lithography. <i>Nanoscale</i> , 2013, 5, 1836.	5.6	54
66	Mechanochromic Photonic Gels. <i>Advanced Materials</i> , 2013, 25, 3934-3947.	21.0	154
67	Epoxy functionalized multi-walled carbon nanotubes for improved adhesives. <i>Carbon</i> , 2013, 59, 109-120.	10.3	105
68	Direct Write Thermocapillary Dewetting of Polymer Thin Films by a Laser-Induced Thermal Gradient. <i>Advanced Materials</i> , 2013, 25, 6100-6105.	21.0	46
69	Rapid fabrication of 3D terahertz split ring resonator arrays by novel single-shot direct write focused proximity field nanopatterning. <i>Optics Express</i> , 2012, 20, 11097.	3.4	8
70	High strain rate deformation of layered nanocomposites. <i>Nature Communications</i> , 2012, 3, 1164.	12.8	153
71	Collective Mechanical Behavior of Multilayer Colloidal Arrays of Hollow Nanoparticles. <i>Langmuir</i> , 2012, 28, 5580-5588.	3.5	28
72	Transfer of Chirality from Molecule to Phase in Self-Assembled Chiral Block Copolymers. <i>Journal of the American Chemical Society</i> , 2012, 134, 10974-10986.	13.7	125

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73	Dynamic Swelling of Tunable Full-Color Block Copolymer Photonic Gels <i>via</i> Counterion Exchange. ACS Nano, 2012, 6, 8933-8939.	14.6	135
74	Micro- μ Nanostructured Mechanical Metamaterials. Advanced Materials, 2012, 24, 4782-4810.	21.0	435
75	Materials Research at Rice University. Advanced Materials, 2012, 24, 4780-4781.	21.0	0
76	Periodic Bicontinuous Composites for High Specific Energy Absorption. Nano Letters, 2012, 12, 4392-4396.	9.1	95
77	Controlling Thermochromism in a Photonic Block Copolymer Gel. Macromolecular Rapid Communications, 2012, 33, 1504-1509.	3.9	29
78	Level Set Photonic Quasicrystals with Phase Parameters. Advanced Functional Materials, 2012, 22, 1150-1157.	14.9	21
79	Porous gadolinia-doped ceria with adjustable pore sizes using PI-b-PEO copolymer as the structure-directing agent. Journal of Sol-Gel Science and Technology, 2012, 63, 72-84.	2.4	8
80	Three-dimensional actuators transformed from the programmed two-dimensional structures via bending, twisting and folding mechanisms. Journal of Materials Chemistry, 2011, 21, 6824.	6.7	136
81	Effects of Nano- to Micropore Diameter on Water Vapor Transport Diffusivities Within Porous Polycarbonate Barriers. Nanoscale and Microscale Thermophysical Engineering, 2011, 15, 123-131.	2.6	1
82	Focused laser spike (FLaSk) annealing of photoactivated chemically amplified resists for rapid hierarchical patterning. Nanoscale, 2011, 3, 2730.	5.6	20
83	Optical forces and optical torques on various materials arising from optical lattices in the Lorentz-Mie regime. Physical Review B, 2011, 84, .	3.2	17
84	Scrolled Polymer Single Crystals Driven by Unbalanced Surface Stresses: Rational Design and Experimental Evidence. Macromolecules, 2011, 44, 7758-7766.	4.8	30
85	Visible Mie Scattering in Nonabsorbing Hollow Sphere Powders. Nano Letters, 2011, 11, 1389-1394.	9.1	99
86	Mechanics of Nanoindentation on a Monolayer of Colloidal Hollow Nanoparticles. Langmuir, 2011, 27, 10492-10500.	3.5	39
87	Reversible solid-state mechanochromic fluorescence from a boron lipid dye. Journal of Materials Chemistry, 2011, 21, 8295.	6.7	121
88	Theoretical study on photonic devices based on a commensurate two-pattern photonic crystal. Optics Letters, 2011, 36, 3416.	3.3	24
89	Photonic density of states of two-dimensional quasicrystalline photonic structures. Physical Review A, 2011, 84, .	2.5	20
90	Two-pattern compound photonic crystals with a large complete photonic band gap. Physical Review A, 2011, 84, .	2.5	26

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91	Initiation of a Database of Functional Micro- and Nanostructures. <i>Small</i> , 2011, 7, 2981-2989.	10.0	1
92	Continuous Composite Materials for Stiffness, Strength, and Energy Dissipation. <i>Advanced Materials</i> , 2011, 23, 1524-1529.	21.0	218
93	Block Copolymer Photonic Gel for Mechanochromic Sensing. <i>Advanced Materials</i> , 2011, 23, 4702-4706.	21.0	100
94	Interplay of symmetries of block polymers and confining geometries. <i>European Polymer Journal</i> , 2011, 47, 630-646.	5.4	69
95	Impact of Geometry on the TM Photonic Band Gaps of Photonic Crystals and Quasicrystals. <i>Physical Review Letters</i> , 2011, 107, 193901.	7.8	25
96	Synthesis of gadolinia-doped ceria gels and powders from acetylacetonate precursors. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 1-11.	2.4	18
97	Control of Optical Hysteresis in Block Copolymer Photonic Gels: A Step Towards Wet Photonic Memory Films. <i>Advanced Functional Materials</i> , 2010, 20, 1728-1732.	14.9	77
98	Metalized Porous Interference Lithographic Microstructures via Biofunctionalization. <i>Advanced Materials</i> , 2010, 22, 1369-1373.	21.0	17
99	Solution Crystallization Behavior of Crystalline Diblock Copolymers of Poly(ethylene Terephthalate) and Poly(vinylidene fluoride). <i>Macromolecules</i> , 2010, 43, 10784-10793.	4.8	83
100	Gyroid-Forming Diblock Copolymers Confined in Cylindrical Geometry: A Case of Extreme Makeover for Domain Morphology. <i>Macromolecules</i> , 2010, 43, 3061-3071.	4.8	61
101	Inorganic Gyroid with Exceptionally Low Refractive Index from Block Copolymer Templating. <i>Nano Letters</i> , 2010, 10, 4994-5000.	9.1	142
102	Robust Block Copolymer Mask for Nanopatterning Polymer Films. <i>ACS Nano</i> , 2010, 4, 2088-2094.	14.6	90
103	Silicon oxy carbide nanorings from polystyrene-b-polydimethylsiloxane diblock copolymer thin films. <i>Soft Matter</i> , 2010, 6, 3582.	2.7	23
104	Enhanced Energy Dissipation in Periodic Epoxy Nanoframes. <i>Nano Letters</i> , 2010, 10, 2592-2597.	9.1	68
105	Superamphiphilic Janus Fabric. <i>Langmuir</i> , 2010, 26, 19159-19162.	3.5	59
106	A Spring-Like Behavior of Chiral Block Copolymer with Helical Nanostructure Driven by Crystallization. <i>Advanced Functional Materials</i> , 2009, 19, 448-459.	14.9	31
107	Plastic Dissipation Mechanisms in Periodic Microstructured Polymers. <i>Advanced Functional Materials</i> , 2009, 19, 1343-1350.	14.9	36
108	Bifurcated Mechanical Behavior of Deformed Periodic Porous Solids. <i>Advanced Functional Materials</i> , 2009, 19, 1426-1436.	14.9	59

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109	Printable Ferroelectric PVDF/PMMA Blend Films with Ultralow Roughness for Low Voltage Non-volatile Polymer Memory. <i>Advanced Functional Materials</i> , 2009, 19, 2812-2818.	14.9	239
110	Hierarchically Ordered Topographic Patterns via Plasmonic Mask Photolithography. <i>Advanced Materials</i> , 2009, 21, 1921-1926.	21.0	36
111	Bioinspired Electrochemically Tunable Block Copolymer Full Color Pixels. <i>Advanced Materials</i> , 2009, 21, 3078-3081.	21.0	161
112	Strongly segregated cubic microdomain morphology consistent with the double gyroid phase in high molecular weight diblock copolymers of polystyrene and poly(dimethylsiloxane). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2419-2427.	2.1	41
113	Bubbly but quiet. <i>Nature</i> , 2009, 462, 990-991.	27.8	14
114	Continuous Concentric Lamellar Block Copolymer Nanofibers with Long Range Order. <i>Nano Letters</i> , 2009, 9, 1678-1683.	9.1	77
115	Instabilities and Pattern Transformation in Periodic, Porous Elastoplastic Solid Coatings. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 42-47.	8.0	45
116	Combining Pattern Instability and Shape-Memory Hysteresis for Phononic Switching. <i>Nano Letters</i> , 2009, 9, 2113-2119.	9.1	99
117	Block Copolymers with a Twist. <i>Journal of the American Chemical Society</i> , 2009, 131, 18533-18542.	13.7	126
118	Poly(ethylene oxide) Crystal Orientation Change under 1D Nanoscale Confinement using Polystyrene- <i>block</i> -poly(ethylene oxide) Copolymers: Confined Dimension and Reduced Tethering Density Effects. <i>Macromolecules</i> , 2009, 42, 8343-8352.	4.8	57
119	Radiation forces on dielectric and absorbing particles studied via the finite-difference time-domain method. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 1882.	2.1	29
120	Role of Increased Crystallinity in Deformation-Induced Structure of Segmented Thermoplastic Polyurethane Elastomers with PEO and PEO- <i>b</i> -PPO- <i>b</i> -PEO Soft Segments and HDI Hard Segments. <i>Macromolecules</i> , 2009, 42, 2041-2053.	4.8	93
121	Full Color Stop Bands in Hybrid Organic/Inorganic Block Copolymer Photonic Gels by Swelling- <i>Freezing</i> . <i>Journal of the American Chemical Society</i> , 2009, 131, 7538-7539.	13.7	110
122	Colour-tunable spiral photonic actuators. <i>Journal of Materials Chemistry</i> , 2009, 19, 1956.	6.7	34
123	Anisotropic actuation of mechanically textured polypyrrole films. <i>Polymer</i> , 2008, 49, 1338-1349.	3.8	12
124	In situ observation of dynamic elastic modulus in polypyrrole actuators. <i>Polymer</i> , 2008, 49, 2008-2013.	3.8	31
125	Enhancement to the rate-dependent mechanical behavior of polycarbonate by incorporation of triptycenes. <i>Polymer</i> , 2008, 49, 4703-4712.	3.8	26
126	Crystal Orientation Change and Its Origin in One-Dimensional Nanoconfinement Constructed by Polystyrene- <i>block</i> -poly(ethylene oxide) Single Crystal Mats. <i>Macromolecules</i> , 2008, 41, 8114-8123.	4.8	65

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127	Alignment and anchoring transition of liquid crystals on the surface of self-assembled block copolymer films with periodic defects. <i>Soft Matter</i> , 2008, 4, 739.	2.7	7
128	Phase Behavior of Binary Blends of High Molecular Weight Diblock Copolymers with a Low Molecular Weight Triblock. <i>Macromolecules</i> , 2008, 41, 5785-5792.	4.8	12
129	Graphoepitaxy of Self-Assembled Block Copolymers on Two-Dimensional Periodic Patterned Templates. <i>Science</i> , 2008, 321, 939-943.	12.6	760
130	Synthesis and Self-Assembly of 2nd Generation Dendritic Homopolymers and Copolymers of Polydienes with Different Isomeric Microstructures. <i>Macromolecular Symposia</i> , 2008, 267, 16-20.	0.7	16
131	Preparation, characterization, and heat resistance studies of a holographic photopolymer based on SU-8 epoxy resin. <i>Optics Letters</i> , 2008, 33, 7.	3.3	4
132	Mechanical properties of composite polymer microstructures fabricated by interference lithography. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4093.	2.8	19
133	Three-Dimensionally-Patterned Submicrometer-Scale Hydrogel/Air Networks That Offer a New Platform for Biomedical Applications. <i>Nano Letters</i> , 2008, 8, 1456-1460.	9.1	35
134	Crystalline Structure in Thin Films of DEH α -PPV Homopolymer and PPV-b-PI Rod α -Coil Block Copolymers. <i>Macromolecules</i> , 2008, 41, 58-66.	4.8	42
135	Gel Processing for Highly Oriented Conjugated Polymer Films. <i>Macromolecules</i> , 2008, 41, 9863-9868.	4.8	28
136	Poly(ethylene oxide) Crystallization within a One-Dimensional Defect-Free Confinement on the Nanoscale. <i>Macromolecules</i> , 2008, 41, 4794-4801.	4.8	59
137	Threading and Interlocking: A Mechanism for the Simultaneous Enhancement of Polymer Stiffness, Strength, and Ductility. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1086, 1.	0.1	0
138	Latent Heat Fluxes Through Soft Materials With Microtruss Architectures. <i>Journal of Heat Transfer</i> , 2008, 130, .	2.1	4
139	Thermochromic Block Copolymer Photonic Gel. <i>Macromolecules</i> , 2008, 41, 4582-4584.	4.8	62
140	Fabrication of Bio-Inspired Elastomer Nanofiber Arrays with Spatulate Tips using Notching Effect. , 2008, , .		4
141	Direct observation of a hypersonic band gap in two-dimensional single crystalline phononic structures. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	48
142	Poly(ethylene oxide) Crystal Orientation Changes in an Inverse Hexagonal Cylindrical Phase Morphology Constructed by a Poly(ethylene oxide)-block-polystyrene Diblock Copolymer. <i>Macromolecules</i> , 2007, 40, 526-534.	4.8	36
143	Shape Control of Multivalent 3D Colloidal Particles via Interference Lithography. <i>Nano Letters</i> , 2007, 7, 647-651.	9.1	41
144	Direct 3-D Imaging of the Evolution of Block Copolymer Microstructures Using Laser Scanning Confocal Microscopy. <i>Macromolecules</i> , 2007, 40, 6021-6024.	4.8	14

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145	A Route to Three-Dimensional Structures in a Microfluidic Device: Stop-Flow Interference Lithography. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9027-9031.	13.8	96
146	A new approach in the study of tethered diblock copolymer surface morphology and its tethering density dependence. <i>Polymer</i> , 2007, 48, 3732-3738.	3.8	30
147	Broad-wavelength-range chemically tunable block-copolymer photonic gels. <i>Nature Materials</i> , 2007, 6, 957-960.	27.5	551
148	Optically Pumped Surface-Emitting Lasing Using Self-Assembled Block-Copolymer-Distributed Bragg Reflectors. <i>Nano Letters</i> , 2006, 6, 2211-2214.	9.1	71
149	Optically Transparent and High Molecular Weight Polyolefin Block Copolymers toward Self-Assembled Photonic Band Gap Materials. <i>Macromolecules</i> , 2006, 39, 1913-1919.	4.8	84
150	Defect-mode mirrorless lasing in dye-doped organic/inorganic hybrid one-dimensional photonic crystal. <i>Applied Physics Letters</i> , 2006, 88, 091102.	3.3	71
151	Mechanically Tunable Three-Dimensional Elastomeric Network/Air Structures via Interference Lithography. <i>Nano Letters</i> , 2006, 6, 740-743.	9.1	98
152	Onsets of Tethered Chain Overcrowding and Highly Stretched Brush Regime via Crystalline-Amorphous Diblock Copolymers. <i>Macromolecules</i> , 2006, 39, 641-650.	4.8	159
153	Minimization of Internal Molecular Free Volume: A Mechanism for the Simultaneous Enhancement of Polymer Stiffness, Strength, and Ductility. <i>Macromolecules</i> , 2006, 39, 3350-3358.	4.8	145
154	Synthesis and Morphological Behavior of Model 6-Arm Star Copolymers, PS(P2MP) ₅ , of Styrene (S) and 2-Methyl-1,3-Pentadiene (P2MP). <i>Chemistry of Materials</i> , 2006, 18, 2164-2168.	6.7	21
155	Electrospun Polymer Nanofibers with Internal Periodic Structure Obtained by Microphase Separation of Cylindrically Confined Block Copolymers. <i>Nano Letters</i> , 2006, 6, 2969-2972.	9.1	160
156	Supramolecular Microphase Separation in a Hydrogen-Bonded Liquid Crystalline Comb Copolymer in the Melt State. <i>Macromolecules</i> , 2006, 39, 3114-3117.	4.8	33
157	Colloidal crystals go hypersonic. <i>Nature Materials</i> , 2006, 5, 773-774.	27.5	36
158	Comparison of poly(ethylene oxide) crystal orientations and crystallization behaviors in nano-confined cylinders constructed by a poly(ethylene oxide)-b-polystyrene diblock copolymer and a blend of poly(ethylene oxide)-b-polystyrene and polystyrene. <i>Polymer</i> , 2006, 47, 5457-5466.	3.8	87
159	Effect of the degree of soft and hard segment ordering on the morphology and mechanical behavior of semicrystalline segmented polyurethanes. <i>Polymer</i> , 2006, 47, 3073-3082.	3.8	308
160	A tensile test device for in situ atomic force microscope mechanical testing. <i>Precision Engineering</i> , 2006, 30, 71-84.	3.4	34
161	Simultaneous localization of photons and phonons in two-dimensional periodic structures. <i>Applied Physics Letters</i> , 2006, 88, 251907.	3.3	207
162	Frustrated Crystallization of a Rod-Coil Block Copolymer from Its Liquid Crystalline State. <i>Macromolecules</i> , 2006, 39, 4650-4653.	4.8	14

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163	Bio-scaffolds for ordered nanostructures and metallodielectric nanoparticles. , 2005, , .		2
164	Bicontinuous cubic photonic crystals via level set and 3D interference lithography. , 2005, , .		0
165	A block copolymer nanotemplate for mechanically tunable polarized emission from a conjugated polymer. Polymer, 2005, 46, 10113-10118.	3.8	4
166	Phase and orientational ordering of Aâ€“Bâ€“A tri-block co-polymers guest in a quenched host of low molecular weight rod molecules. Chemical Physics Letters, 2005, 408, 139-144.	2.6	0
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168	Self-Assembly of Block Copolymers for Photonic-Bandgap Materials. MRS Bulletin, 2005, 30, 721-726.	3.5	77
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