

# Edwin L Thomas

## List of Publications by Year in descending order

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381  
papers

28,736  
citations

4584

88  
h-index

9118

149  
g-index

397  
all docs

397  
docs citations

397  
times ranked

20976  
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.	4.0	7
2	Visualization of nonsingular defect enabling rapid control of structural color. Science Advances, 2022, 8, eabm5120.	4.7	12
3	High-velocity micro-projectile impact testing. Applied Physics Reviews, 2021, 8, .	5.5	46
4	Visualizing the double-gyroid twin. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	20
5	Nanonetwork Thermosets from Templated Polymerization for Enhanced Energy Dissipation. Nano Letters, 2021, 21, 3355-3363.	4.5	17
6	Extreme Tribological Characteristics of Copolymers Induced by Dynamic Rheological Instability. ACS Applied Polymer Materials, 2021, 3, 4413-4418.	2.0	5
7	Origins of size effects in initially dislocation-free single-crystal silver micro- and nanocubes. Acta Materialia, 2021, 214, 117020.	3.8	14
8	Block Copolymers beneath the Surface: Measuring and Modeling Complex Morphology at the Subdomain Scale. Macromolecules, 2021, 54, 9223-9257.	2.2	27
9	Projectile Impact Shock-Induced Deformation of One-Component Polymer Nanocomposite Thin Films. ACS Nano, 2021, 15, 2439-2446.	7.3	20
10	Extreme Energy Dissipation via Material Evolution in Carbon Nanotube Mats. Advanced Science, 2021, 8, 2003142.	5.6	9
11	Synthesis and Characterization of Asymmetric A <sub>1</sub> BA <sub>2</sub> Supramolecular Triblock Copolymers via Noncovalent Interactions: A Solution and Solid-State Study. Macromolecules, 2021, 54, 10730-10739.	2.2	1
12	Dynamic martensitic phase transformation in single-crystal silver microcubes. Acta Materialia, 2020, 182, 131-143.	3.8	24
13	Networks with controlled chirality via self-assembly of chiral triblock terpolymers. Science Advances, 2020, 6, .	4.7	36
14	3D touchless multiorder reflection structural color sensing display. Science Advances, 2020, 6, eabb5769.	4.7	81
15	Alternating Gyroid Network Structure in an ABC Miktoarm Terpolymer Comprised of Polystyrene and Two Polydienes. Nanomaterials, 2020, 10, 1497.	1.9	8
16	Dendrons and Dendritic Terpolymers: Synthesis, Characterization and Self-Assembly Comparison. Molecules, 2020, 25, 6030.	1.7	4
17	Complex Star Architectures of Well-Defined Polyethylene-Based Co/Terpolymers. Macromolecules, 2020, 53, 4355-4365.	2.2	11
18	1D hypo-crystals: A novel concept for the crystallization of stereo-irregular polymers. Materials Today, 2020, 40, 26-37.	8.3	13

#	ARTICLE	IF	CITATIONS
19	Determination of the Complete Elasticity of Nephila pilipes Spider Silk. <i>Biomacromolecules</i> , 2020, 21, 1179-1185.	2.6	17
20	Asymmetric acoustic energy transport in non-Hermitian metamaterials. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 863-872.	0.5	15
21	Synthesis and Self-Assembly of Well-Defined Star and Tadpole Homo-/Co-/Terpolymers. <i>Macromolecules</i> , 2019, 52, 5583-5589.	2.2	15
22	Seeing mesoatomic distortions in soft-matter crystals of a double-gyroid block copolymer. <i>Nature</i> , 2019, 575, 175-179.	13.7	78
23	Interfacial Engineering of Reduced Graphene Oxide for Aramid Nanofiber-Enabled Structural Supercapacitors. <i>Batteries and Supercaps</i> , 2019, 2, 464-472.	2.4	29
24	Topological defects in tubular network block copolymers. <i>Polymer</i> , 2019, 168, 44-52.	1.8	14
25	Generalizing the effects of chirality on block copolymer assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4080-4089.	3.3	37
26	Anatomy of triply-periodic network assemblies: characterizing skeletal and inter-domain surface geometry of block copolymer gyroids. <i>Soft Matter</i> , 2018, 14, 3612-3623.	1.2	29
27	Nanoscale 3D ordered polymer networks. <i>Science China Chemistry</i> , 2018, 61, 25-32.	4.2	16
28	Size Effects in Single-Crystal Metallic Micro- and Nanocubes. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2018, , 47-49.	0.3	0
29	Extreme Energy Absorption in Glassy Polymer Thin Films by Supersonic Micro-projectile Impact. <i>Materials Today</i> , 2018, 21, 817-824.	8.3	55
30	Nanoscale Multifunctional Tubular Networks. , 2018, , .		0
31	Printable and Rewritable Full Block Copolymer Structural Color. <i>Advanced Materials</i> , 2017, 29, 1700084.	11.1	100
32	Synthesis of Monodisperse Single Crystalline Ag Microcubes via Seed-Mediated Growth. <i>Crystal Growth and Design</i> , 2017, 17, 284-289.	1.4	17
33	High-Resolution Quantum Dot Photopatterning via Interference Lithography Assisted Microstamping. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13370-13380.	1.5	14
34	Thickness-Dependent Order-to-Order Transitions of Bolaform-like Giant Surfactant in Thin Films. <i>Macromolecules</i> , 2017, 50, 7282-7290.	2.2	19
35	3D printed stretching-dominated micro-trusses. <i>Materials and Design</i> , 2017, 134, 272-280.	3.3	94
36	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. <i>Nature Communications</i> , 2017, 8, 1653.	5.8	66

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37	Asymmetric diffraction from two-component optical gratings made of passive and lossy materials. <i>Optics Express</i> , 2016, 24, 30164.	1.7	2
38	Synthesis, characterization and self-assembly of well-defined linear heptablock quaterpolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1443-1449.	2.4	13
39	Crafting Core/Graded Shell-Shell Quantum Dots with Suppressed Reabsorption and Tunable Stokes Shift as High Optical Gain Materials. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5071-5075.	7.2	42
40	Focused laser-induced marangoni dewetting for patterning polymer thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 225-236.	2.4	28
41	Enthalpy-Driven Swelling of Photonic Block Polymer Films. <i>Macromolecules</i> , 2016, 49, 8971-8979.	2.2	44
42	Nonlinear control of high-frequency phonons in spider silk. <i>Nature Materials</i> , 2016, 15, 1079-1083.	13.3	49
43	Dynamic creation and evolution of gradient nanostructure in single-crystal metallic microcubes. <i>Science</i> , 2016, 354, 312-316.	6.0	95
44	Crafting Core/Graded Shell-Shell Quantum Dots with Suppressed Reabsorption and Tunable Stokes Shift as High Optical Gain Materials. <i>Angewandte Chemie</i> , 2016, 128, 5155-5159.	1.6	8
45	Tunable Affinity and Molecular Architecture Lead to Diverse Self-Assembled Supramolecular Structures in Thin Films. <i>ACS Nano</i> , 2016, 10, 919-929.	7.3	47
46	Immiscible polydiene blocks in linear copolymer and terpolymer sequences. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1238-1246.	2.4	9
47	Stimulus-Responsive Thin-Film Photonic Crystals from Rapid Self-Assembly of Block Copolymers for Photopatterning. <i>Advanced Optical Materials</i> , 2015, 3, 1517-1523.	3.6	19
48	Large-Area Block Copolymer Photonic Gel Films with Solvent-Evaporation-Induced Red- and Blue-Shift Reflective Bands. <i>Macromolecules</i> , 2015, 48, 4004-4011.	2.2	31
49	Electrically Tunable Soft-Solid Block Copolymer Structural Color. <i>ACS Nano</i> , 2015, 9, 12158-12167.	7.3	67
50	Photonic Crystal. , 2014, , 1-9.		0
51	Dynamic mechanical behavior of multilayer graphene via supersonic projectile penetration. <i>Science</i> , 2014, 346, 1092-1096.	6.0	329
52	25th Anniversary Article: Ordered Polymer Structures for the Engineering of Photons and Phonons. <i>Advanced Materials</i> , 2014, 26, 532-569.	11.1	205
53	Shifting Networks to Achieve Subgroup Symmetry Properties. <i>Advanced Materials</i> , 2014, 26, 3225-3229.	11.1	57
54	Responsive Block Copolymer Photonics Triggered by Protein-Polyelectrolyte Coacervation. <i>ACS Nano</i> , 2014, 8, 11467-11473.	7.3	50

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55	Photonic Block Copolymer Films Swollen with an Ionic Liquid. <i>Macromolecules</i> , 2014, 47, 4103-4109.	2.2	59
56	Nanoporous Silicon Oxide Memory. <i>Nano Letters</i> , 2014, 14, 4694-4699.	4.5	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.	5.0	25
58	Alignment and reordering of a block copolymer by solvent-enhanced thermal laser direct write. <i>Polymer</i> , 2014, 55, 1875-1882.	1.8	45
59	Defects, Solvent Quality, and Photonic Response in Lamellar Block Copolymer Gels. <i>Macromolecules</i> , 2014, 47, 1130-1136.	2.2	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.	2.2	21
62	Phase Transitions of Polystyrene- <i>b</i> -poly(dimethylsiloxane) in Solvents of Varying Selectivity. <i>Macromolecules</i> , 2013, 46, 7513-7524.	2.2	67
63	Host-Guest Self-assembly in Block Copolymer Blends. <i>Scientific Reports</i> , 2013, 3, 3190.	1.6	34
64	Carbon Nanotube Core Graphitic Shell Hybrid Fibers. <i>ACS Nano</i> , 2013, 7, 10971-10977.	7.3	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.	2.8	54
66	Mechanochromic Photonic Gels. <i>Advanced Materials</i> , 2013, 25, 3934-3947.	11.1	154
67	Epoxy functionalized multi-walled carbon nanotubes for improved adhesives. <i>Carbon</i> , 2013, 59, 109-120.	5.4	105
68	Direct Write Thermocapillary Dewetting of Polymer Thin Films by a Laser-Induced Thermal Gradient. <i>Advanced Materials</i> , 2013, 25, 6100-6105.	11.1	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.	1.7	8
70	High strain rate deformation of layered nanocomposites. <i>Nature Communications</i> , 2012, 3, 1164.	5.8	153
71	Collective Mechanical Behavior of Multilayer Colloidal Arrays of Hollow Nanoparticles. <i>Langmuir</i> , 2012, 28, 5580-5588.	1.6	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.	6.6	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.	7.3	135
74	Micro- $\epsilon$ -Nanostructured Mechanical Metamaterials. Advanced Materials, 2012, 24, 4782-4810.	11.1	435
75	Materials Research at Rice University. Advanced Materials, 2012, 24, 4780-4781.	11.1	0
76	Periodic Bicontinuous Composites for High Specific Energy Absorption. Nano Letters, 2012, 12, 4392-4396.	4.5	95
77	Controlling Thermo-chromism in a Photonic Block Copolymer Gel. Macromolecular Rapid Communications, 2012, 33, 1504-1509.	2.0	29
78	Level Set Photonic Quasicrystals with Phase Parameters. Advanced Functional Materials, 2012, 22, 1150-1157.	7.8	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.	1.1	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.	1.4	1
82	Focused laser spike (FLaSk) annealing of photoactivated chemically amplified resists for rapid hierarchical patterning. Nanoscale, 2011, 3, 2730.	2.8	20
83	Optical forces and optical torques on various materials arising from optical lattices in the Lorentz-Mie regime. Physical Review B, 2011, 84, .	1.1	17
84	Scrolled Polymer Single Crystals Driven by Unbalanced Surface Stresses: Rational Design and Experimental Evidence. Macromolecules, 2011, 44, 7758-7766.	2.2	30
85	Visible Mie Scattering in Nonabsorbing Hollow Sphere Powders. Nano Letters, 2011, 11, 1389-1394.	4.5	99
86	Mechanics of Nanoindentation on a Monolayer of Colloidal Hollow Nanoparticles. Langmuir, 2011, 27, 10492-10500.	1.6	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.	1.7	24
89	Photonic density of states of two-dimensional quasicrystalline photonic structures. Physical Review A, 2011, 84, .	1.0	20
90	Two-pattern compound photonic crystals with a large complete photonic band gap. Physical Review A, 2011, 84, .	1.0	26

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91	Initiation of a Database of Functional Micro- and Nanostructures. <i>Small</i> , 2011, 7, 2981-2989.	5.2	1
92	Continuous Composite Materials for Stiffness, Strength, and Energy Dissipation. <i>Advanced Materials</i> , 2011, 23, 1524-1529.	11.1	218
93	Block Copolymer Photonic Gel for Mechanochromic Sensing. <i>Advanced Materials</i> , 2011, 23, 4702-4706.	11.1	100
94	Interplay of symmetries of block polymers and confining geometries. <i>European Polymer Journal</i> , 2011, 47, 630-646.	2.6	69
95	Impact of Geometry on the TM Photonic Band Gaps of Photonic Crystals and Quasicrystals. <i>Physical Review Letters</i> , 2011, 107, 193901.	2.9	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.	1.1	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.	7.8	77
98	Metalized Porous Interference Lithographic Microstructures via Biofunctionalization. <i>Advanced Materials</i> , 2010, 22, 1369-1373.	11.1	17
99	Solution Crystallization Behavior of Crystalline Diblock Copolymers of Poly(ethylene Terephthalate) and Polybutylene Terephthalate. <i>Macromolecules</i> , 2010, 43, 8314-8322.	2.2	61
100	Gyroid-Forming Diblock Copolymers Confined in Cylindrical Geometry: A Case of Extreme Makeover for Domain Morphology. <i>Macromolecules</i> , 2010, 43, 3061-3071.	2.2	61
101	Inorganic Gyroid with Exceptionally Low Refractive Index from Block Copolymer Templating. <i>Nano Letters</i> , 2010, 10, 4994-5000.	4.5	142
102	Robust Block Copolymer Mask for Nanopatterning Polymer Films. <i>ACS Nano</i> , 2010, 4, 2088-2094.	7.3	90
103	Silicon oxy carbide nanorings from polystyrene-b-polydimethylsiloxane diblock copolymer thin films. <i>Soft Matter</i> , 2010, 6, 3582.	1.2	23
104	Enhanced Energy Dissipation in Periodic Epoxy Nanoframes. <i>Nano Letters</i> , 2010, 10, 2592-2597.	4.5	68
105	Superamphiphilic Janus Fabric. <i>Langmuir</i> , 2010, 26, 19159-19162.	1.6	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.	7.8	31
107	Plastic Dissipation Mechanisms in Periodic Microframe-Structured Polymers. <i>Advanced Functional Materials</i> , 2009, 19, 1343-1350.	7.8	36
108	Bifurcated Mechanical Behavior of Deformed Periodic Porous Solids. <i>Advanced Functional Materials</i> , 2009, 19, 1426-1436.	7.8	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.	7.8	239
110	Hierarchically Ordered Topographic Patterns via Plasmonic Mask Photolithography. <i>Advanced Materials</i> , 2009, 21, 1921-1926.	11.1	36
111	Bioinspired Electrochemically Tunable Block Copolymer Full Color Pixels. <i>Advanced Materials</i> , 2009, 21, 3078-3081.	11.1	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.	2.4	41
113	Bubbly but quiet. <i>Nature</i> , 2009, 462, 990-991.	13.7	14
114	Continuous Concentric Lamellar Block Copolymer Nanofibers with Long Range Order. <i>Nano Letters</i> , 2009, 9, 1678-1683.	4.5	77
115	Instabilities and Pattern Transformation in Periodic, Porous Elastoplastic Solid Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 42-47.	4.0	45
116	Combining Pattern Instability and Shape-Memory Hysteresis for Phononic Switching. <i>Nano Letters</i> , 2009, 9, 2113-2119.	4.5	99
117	Block Copolymers with a Twist. <i>Journal of the American Chemical Society</i> , 2009, 131, 18533-18542.	6.6	126
118	Poly(ethylene oxide) Crystal Orientation Change under 1D Nanoscale Confinement using Polystyrene-block-poly(ethylene oxide) Copolymers: Confined Dimension and Reduced Tethering Density Effects. <i>Macromolecules</i> , 2009, 42, 8343-8352.	2.2	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.	0.9	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.	2.2	93
121	Full Color Stop Bands in Hybrid Organic/Inorganic Block Copolymer Photonic Gels by Swelling-Freezing. <i>Journal of the American Chemical Society</i> , 2009, 131, 7538-7539.	6.6	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.	1.8	12
124	In situ observation of dynamic elastic modulus in polypyrrole actuators. <i>Polymer</i> , 2008, 49, 2008-2013.	1.8	31
125	Enhancement to the rate-dependent mechanical behavior of polycarbonate by incorporation of triptycenes. <i>Polymer</i> , 2008, 49, 4703-4712.	1.8	26
126	Crystal Orientation Change and Its Origin in One-Dimensional Nanoconfinement Constructed by Polystyrene-block-poly(ethylene oxide) Single Crystal Mats. <i>Macromolecules</i> , 2008, 41, 8114-8123.	2.2	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.	1.2	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.	2.2	12
129	Graphoepitaxy of Self-Assembled Block Copolymers on Two-Dimensional Periodic Patterned Templates. <i>Science</i> , 2008, 321, 939-943.	6.0	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.	0.4	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.	1.7	4
132	Mechanical properties of composite polymer microstructures fabricated by interference lithography. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4093.	1.3	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.	4.5	35
134	Crystalline Structure in Thin Films of DEH-PPV Homopolymer and PPV-b-PI Rod-Coil Block Copolymers. <i>Macromolecules</i> , 2008, 41, 58-66.	2.2	42
135	Gel Processing for Highly Oriented Conjugated Polymer Films. <i>Macromolecules</i> , 2008, 41, 9863-9868.	2.2	28
136	Poly(ethylene oxide) Crystallization within a One-Dimensional Defect-Free Confinement on the Nanoscale. <i>Macromolecules</i> , 2008, 41, 4794-4801.	2.2	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, .	1.2	4
139	Thermochromic Block Copolymer Photonic Gel. <i>Macromolecules</i> , 2008, 41, 4582-4584.	2.2	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, .	1.5	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.	2.2	36
143	Shape Control of Multivalent 3D Colloidal Particles via Interference Lithography. <i>Nano Letters</i> , 2007, 7, 647-651.	4.5	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.	2.2	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.	7.2	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.	1.8	30
147	Broad-wavelength-range chemically tunable block-copolymer photonic gels. <i>Nature Materials</i> , 2007, 6, 957-960.	13.3	551
148	Optically Pumped Surface-Emitting Lasing Using Self-Assembled Block-Copolymer-Distributed Bragg Reflectors. <i>Nano Letters</i> , 2006, 6, 2211-2214.	4.5	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.	2.2	84
150	Defect-mode mirrorless lasing in dye-doped organic/inorganic hybrid one-dimensional photonic crystal. <i>Applied Physics Letters</i> , 2006, 88, 091102.	1.5	71
151	Mechanically Tunable Three-Dimensional Elastomeric Network/Air Structures via Interference Lithography. <i>Nano Letters</i> , 2006, 6, 740-743.	4.5	98
152	Onsets of Tethered Chain Overcrowding and Highly Stretched Brush Regime via Crystalline-Amorphous Diblock Copolymers. <i>Macromolecules</i> , 2006, 39, 641-650.	2.2	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.	2.2	145
154	Synthesis and Morphological Behavior of Model 6-Arm Star Copolymers, PS(P2MP) <sub>5</sub> , of Styrene (S) and 2-Methyl-1,3-Pentadiene (P2MP). <i>Chemistry of Materials</i> , 2006, 18, 2164-2168.	3.2	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.	4.5	160
156	Supramolecular Microphase Separation in a Hydrogen-Bonded Liquid Crystalline Comb Copolymer in the Melt State. <i>Macromolecules</i> , 2006, 39, 3114-3117.	2.2	33
157	Colloidal crystals go hypersonic. <i>Nature Materials</i> , 2006, 5, 773-774.	13.3	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.	1.8	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.	1.8	308
160	A tensile test device for in situ atomic force microscope mechanical testing. <i>Precision Engineering</i> , 2006, 30, 71-84.	1.8	34
161	Simultaneous localization of photons and phonons in two-dimensional periodic structures. <i>Applied Physics Letters</i> , 2006, 88, 251907.	1.5	207
162	Frustrated Crystallization of a Rod-Coil Block Copolymer from Its Liquid Crystalline State. <i>Macromolecules</i> , 2006, 39, 4650-4653.	2.2	14

#	ARTICLE	IF	CITATIONS
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. <i>Polymer</i> , 2005, 46, 10113-10118.	1.8	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. <i>Chemical Physics Letters</i> , 2005, 408, 139-144.	1.2	0
167	Microlens arrays with integrated pores as a multipattern photomask. <i>Applied Physics Letters</i> , 2005, 86, 201121.	1.5	22
168	Self-Assembly of Block Copolymers for Photonic-Bandgap Materials. <i>MRS Bulletin</i> , 2005, 30, 721-726.	1.7	77
169	Nonreciprocity in photonic crystals: indirect photonic band gaps, unidirectional superprisms, and negative refraction. , 2005, 5733, 245.		1
170	2D Spatially Periodic Architectures via the Drying of 1D Holographically Photopatterned Polymer Solutions. <i>Langmuir</i> , 2005, 21, 814-817.	1.6	1
171	Photonic crystals: six connected dielectric networks with simple cubic symmetry. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 466.	0.9	19
172	Structurally chiral photonic crystals with magneto-optic activity: indirect photonic bandgaps, negative refraction, and superprism effects. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 1199.	0.9	35
173	Perpendicular Organization of Macromolecules:â€‰ Synthesis and Alignment Studies of a Soluble Poly(iptycene). <i>Journal of the American Chemical Society</i> , 2005, 127, 17976-17977.	6.6	47
174	An Orientationally Ordered Hierarchical Exfoliated Clayâ”Block Copolymer Nanocomposite. <i>Macromolecules</i> , 2005, 38, 5170-5179.	2.2	64
175	Onset of Tethered Chain Overcrowding. <i>Physical Review Letters</i> , 2004, 93, 028301.	2.9	113
176	Proximity Effects in Self-Organized Binary Particleâ€“Block Copolymer Blends. <i>Physical Review Letters</i> , 2004, 93, 166106.	2.9	147
177	Photonic crystals through holographic lithography: Simple cubic, diamond-like, and gyroid-like structures. <i>Applied Physics Letters</i> , 2004, 84, 5434-5436.	1.5	185
178	Layer-by-layer diamond-like woodpile structure with a large photonic band gap. <i>Applied Physics Letters</i> , 2004, 84, 362-364.	1.5	28
179	Diamond-structured photonic crystals. <i>Nature Materials</i> , 2004, 3, 593-600.	13.3	330
180	Orientational ordering of short LC rods in an anisotropic liquid crystalline polymer glass. <i>Chemical Physics Letters</i> , 2004, 389, 198-203.	1.2	2

#	ARTICLE	IF	CITATIONS
181	Chemically Shielded Poly(ethylene oxide) Single Crystal Growth and Construction of Channel-Wire Arrays with Chemical and Geometric Recognitions on a Submicrometer Scale. <i>Macromolecules</i> , 2004, 37, 5292-5299.	2.2	122
182	Alignment of Self-Assembled Hierarchical Microstructure in Liquid Crystalline Diblock Copolymers Using High Magnetic Fields. <i>Macromolecules</i> , 2004, 37, 9903-9908.	2.2	128
183	Anisotropic Micellar Nanoobjects from Reactive Liquid Crystalline Rod-Coil Diblock Copolymers. <i>Macromolecules</i> , 2004, 37, 3532-3535.	2.2	32
184	Confinement Size Effect on Crystal Orientation Changes of Poly(ethylene oxide) Blocks in Poly(ethylene oxide)-b-polystyrene Diblock Copolymers. <i>Macromolecules</i> , 2004, 37, 3689-3698.	2.2	130
185	Electron Microscopy of Block Copolymers and Related Nanocomposites. <i>Microscopy and Microanalysis</i> , 2004, 10, 52-53.	0.2	0
186	Molecular and Microdomain Orientation in Semicrystalline Block Copolymer Thin Films by Directional Crystallization of the Solvent and Epitaxy. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1514-1523.	1.1	43
187	Two-dimensional block copolymer photonic crystals. <i>Polymer</i> , 2003, 44, 6549-6553.	1.8	83
188	Enabling nanotechnology with self assembled block copolymer patterns. <i>Polymer</i> , 2003, 44, 6725-6760.	1.8	1,413
189	Exploring for 3D photonic bandgap structures in the 11 f.c.c. space groups. <i>Nature Materials</i> , 2003, 2, 664-667.	13.3	87
190	Size-Selective Organization of Enthalpic Compatibilized Nanocrystals in Ternary Block Copolymer/Particle Mixtures. <i>Journal of the American Chemical Society</i> , 2003, 125, 5276-5277.	6.6	453
191	Synthesis and Morphological Behavior of Model Linear and Miktoarm Star Copolymers of 2-Methyl-1,3-Pentadiene and Styrene. <i>Chemistry of Materials</i> , 2003, 15, 1976-1983.	3.2	66
192	Polarized Photoluminescence from Poly(p-phenylene-ethynylene) via a Block Copolymer Nanotemplate. <i>Journal of the American Chemical Society</i> , 2003, 125, 9942-9943.	6.6	75
193	Plastic Deformation Mechanism and Phase Transformation in a Shear-Induced Metastable Hexagonally Perforated Layer Phase of a Polystyrene-b-poly(ethylene oxide) Diblock Copolymer. <i>Macromolecules</i> , 2003, 36, 3180-3188.	2.2	58
194	Effect of Defects on the Response of a Layered Block Copolymer to Perpendicular Deformation: A One-Dimensional Necking. <i>Macromolecules</i> , 2003, 36, 5265-5270.	2.2	21
195	Fourier analysis near-field polarimetry for measurement of local optical properties of thin films. <i>Applied Optics</i> , 2003, 42, 3864.	2.1	10
196	Triply periodic bicontinuous structures through interference lithography: a level-set approach. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 948.	0.8	89
197	Optical Properties of Polymer-Based Photonic Nanocomposite Materials. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10017-10024.	1.2	146
198	Exploring Space Groups for Three Dimensional Photonic Band Gap Structures Via Level Set Equations: The Face Centered Cubic Lattice. <i>Materials Research Society Symposia Proceedings</i> , 2003, 788, 1071.	0.1	0

#	ARTICLE	IF	CITATIONS
199	Three-dimensional dielectric network structures with large photonic band gaps. Applied Physics Letters, 2003, 83, 5172-5174.	1.5	18
200	Acoustic Excitations in a Self-Assembled Block Copolymer Photonic Crystal. Physical Review Letters, 2003, 90, 108302.	2.9	41
201	Design criteria for block copolymer-based metallodielectric photonic materials. , 2003, 5222, 94.		1
202	Micropatterning of Block Copolymer Solutions. Langmuir, 2002, 18, 6719-6722.	1.6	40
203	Nanotailored Crystalline Morphology in Hexagonally Perforated Layers of a Self-Assembled PS-b-PEO Diblock Copolymer. Macromolecules, 2002, 35, 3553-3562.	2.2	90
204	Synthesis and Characterization of Poly(isobutylene-b-pivalolactone) Diblock and Poly(pivalolactone-b-isobutylene-b-pivalolactone) Triblock Copolymers. Macromolecules, 2002, 35, 3348-3357.	2.2	40
205	Deformation Behavior of a Roll-Cast Layered-Silicate/Lamellar Triblock Copolymer Nanocomposite. Macromolecules, 2002, 35, 4419-4428.	2.2	52
206	Site-Isolated Luminescent Europium Complexes with Polyester Macroligands: Metal-Centered Heteroarm Stars and Nanoscale Assemblies with Labile Block Junctions. Journal of the American Chemical Society, 2002, 124, 8526-8527.	6.6	127
207	Synthesis and Microphase Separation of Linear Triblock Terpolymers of Polystyrene, High 1,4-Polybutadiene, and High 3,4-Polyisoprene. Macromolecules, 2002, 35, 4030-4035.	2.2	45
208	A Surface-Reactive Rod-Coil Diblock Copolymer: Nano- and Micropatterned Polymer Brushes. Journal of the American Chemical Society, 2002, 124, 514-515.	6.6	63
209	Iron Cluster and Microstructure Formation in Metal-Centered Star Block Copolymers: Amphiphilic Iron Tris(bipyridine)-Centered Polyoxazolines. Chemistry of Materials, 2002, 14, 1225-1230.	3.2	52
210	Near-Field Optical Imaging of Microphase Separated and Semi-Crystalline Polymer Systems. Microscopy and Microanalysis, 2002, 8, 322-323.	0.2	0
211	Swelling behavior of ordered miktoarm star block copolymer-homopolymer blends. Polymer, 2002, 43, 3257-3266.	1.8	17
212	Study of oriented block copolymers films obtained by roll-casting. Polymer, 2002, 43, 5139-5145.	1.8	70
213	Double textured cylindrical block copolymer domains via directional solidification on a topographically patterned substrate. Applied Physics Letters, 2001, 79, 848-850.	1.5	65
214	Undulation, dilation, and folding of a layered block copolymer. Journal of Chemical Physics, 2001, 114, 984.	1.2	31
215	Initial-Stage Growth Controlled Crystal Orientations in Nanoconfined Lamellae of a Self-Assembled Crystalline-Amorphous Diblock Copolymer. Macromolecules, 2001, 34, 1244-1251.	2.2	152
216	Room-Temperature Synthesis of a-SiO <sub>2</sub> Thin Films by UV-Assisted Ozonolysis of a Polymer Precursor. Chemistry of Materials, 2001, 13, 967-972.	3.2	48

#	ARTICLE	IF	CITATIONS
217	Crystal Orientation Changes in Two-Dimensionally Confined Nanocylinders in a Poly(ethylene) Tj ETQq1 1 0.784314 rrgBT /Overlock 10T	2.2	160
218	Morphologies and Energies of NÄ©el Inversion Wall Defects in a Liquid Crystal Polyether. <i>Macromolecules</i> , 2001, 34, 6658-6669.	2.2	16
219	Poly(ferrocenyldimethylsilanes) for Reactive Ion Etch Barrier Applications. <i>Chemistry of Materials</i> , 2001, 13, 429-434.	3.2	96
220	Large Area Orientation of Block Copolymer Microdomains in Thin Films via Directional Crystallization of a Solvent. <i>Macromolecules</i> , 2001, 34, 2602-2606.	2.2	94
221	Triply Periodic Bicontinuous Cubic Microdomain Morphologies by Symmetries. <i>Macromolecules</i> , 2001, 34, 6083-6089.	2.2	240
222	Hard and soft confinement effects on polymer crystallization in microphase separated cylinder-forming PEO-b-PS/PS blends. <i>Polymer</i> , 2001, 42, 9121-9131.	1.8	179
223	Miscible blends of poly(benzoyl paraphenylene) and polycarbonate. <i>Polymer</i> , 2001, 42, 6463-6472.	1.8	15
224	Dislocation-Controlled Perforated Layer Phase in a PEO- b-PS Diblock Copolymer. <i>Physical Review Letters</i> , 2001, 86, 6030-6033.	2.9	63
225	Microdomain patterns from directional eutectic solidification and epitaxy. <i>Nature</i> , 2000, 405, 433-437.	13.7	363
226	Perpendicular Deformation of a Near-Single-Crystal Triblock Copolymer with a Cylindrical Morphology. 1. Synchrotron SAXS. <i>Macromolecules</i> , 2000, 33, 9395-9406.	2.2	85
227	Perpendicular Deformation of a Near-Single-Crystal Triblock Copolymer with a Cylindrical Morphology. 2. TEM. <i>Macromolecules</i> , 2000, 33, 9407-9417.	2.2	51
228	Control of Molecular and Microdomain Orientation in a Semicrystalline Block Copolymer Thin Film by Epitaxy. <i>Macromolecules</i> , 2000, 33, 4871-4876.	2.2	88
229	Influence of an Oriented Glassy Cylindrical Microdomain Structure on the Morphology of Crystallizing Lamellae in a Semicrystalline Block Terpolymer. <i>Macromolecules</i> , 2000, 33, 7931-7938.	2.2	51
230	Deformation of Oriented Lamellar Block Copolymer Films. <i>Macromolecules</i> , 2000, 33, 6502-6516.	2.2	164
231	Crystallization Temperature-Dependent Crystal Orientations within Nanoscale Confined Lamellae of a Self-Assembled Crystalline <sup>â</sup> Amorphous Diblock Copolymer. <i>Journal of the American Chemical Society</i> , 2000, 122, 5957-5967.	6.6	387
232	Periodic organic-organometallic microdomain structures in poly(styrene-block-ferrocenyldimethylsilane) copolymers and blends with corresponding homopolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 1009-1021.	2.4	67
233	One-Dimensionally Periodic Dielectric Reflectors from Self-Assembled Block Copolymer <sup>â</sup> Homopolymer Blends. <i>Macromolecules</i> , 1999, 32, 4748-4750.	2.2	131
234	Ordered Bicontinuous Nanoporous and Nanorelief Ceramic Films from Self Assembling Polymer Precursors. <i>Science</i> , 1999, 286, 1716-1719.	6.0	348

#	ARTICLE	IF	CITATIONS
235	Mechanical Properties and Deformation Behavior of the Double Gyroid Phase in Unoriented Thermoplastic Elastomers. <i>Macromolecules</i> , 1999, 32, 8145-8152.	2.2	130
236	Transverse Cylindrical Microdomain Orientation in an LC Diblock Copolymer under Oscillatory Shear. <i>Macromolecules</i> , 1999, 32, 7703-7706.	2.2	57
237	Periodic organometallic microdomain structures in poly(styrene-block-ferrocenyldimethylsilane) copolymers and blends with corresponding homopolymers. , 1999, 37, 1009.		1
238	Structure Development in Side Group Liquid Crystalline Diblock Copolymers. , 1999, , 9-28.		1
239	High-strain tensile deformation of a sphere-forming triblock copolymer/mineral oil blend. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 1625-1636.	2.4	40
240	Solvent swelling of roll-cast triblock copolymer films. <i>Polymer</i> , 1998, 39, 1647-1656.	1.8	57
241	Curvature driven relaxation of disclination loops in liquid crystals. <i>Polymer</i> , 1998, 39, 4497-4503.	1.8	9
242	The use of transmission electron microscopy to study the blend morphology of starch/poly(ethylene-co-vinyl alcohol) thermoplastics. <i>Polymer</i> , 1998, 39, 5587-5599.	1.8	17
243	A Dielectric Omnidirectional Reflector. , 1998, 282, 1679-1682.		1,148
244	Curious Morphology of Silicon-Containing Polymer Films on Exposure to Oxygen Plasma. <i>Chemistry of Materials</i> , 1998, 10, 3895-3901.	3.2	24
245	Novel 2-Dimensionally Periodic Non-Constant Mean Curvature Morphologies of 3-Miktoarm Star Terpolymers of Styrene, Isoprene, and Methyl Methacrylate. <i>Macromolecules</i> , 1998, 31, 5272-5277.	2.2	166
246	Structural Characterization of the "Knitting Pattern" in Polystyrene-block-poly(ethylene-co-butylene)-block-poly(methyl methacrylate) Triblock Copolymers. <i>Macromolecules</i> , 1998, 31, 135-141.	2.2	166
247	New Structural Motif in Hexagonally Ordered Cylindrical Ternary (ABC) Block Copolymer Microdomains. <i>Macromolecules</i> , 1998, 31, 6566-6572.	2.2	98
248	Microphase-Stabilized Ferroelectric Liquid Crystals (MSFLC): A Bistable Switching of Ferroelectric Liquid Crystal-Coil Diblock Copolymers. <i>Chemistry of Materials</i> , 1998, 10, 1538-1545.	3.2	52
249	Synthesis and Morphological Behavior of Silicon-Containing Triblock Copolymers for Nanostructure Applications. <i>Chemistry of Materials</i> , 1998, 10, 2109-2115.	3.2	60
250	Electroluminescence from heterostructures of poly(phenylene vinylene) and inorganic CdSe nanocrystals. <i>Journal of Applied Physics</i> , 1998, 83, 7965-7974.	1.1	518
251	Direct Evidence for Confinement of Junctions to Lines in an 3 Miktoarm Star Terpolymer Microdomain Structure. <i>Macromolecules</i> , 1998, 31, 8429-8432.	2.2	141
252	Director textures of the Néel inversion wall in a liquid crystal polymer. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997, 76, 951-960.	0.6	4



#	ARTICLE	IF	CITATIONS
253	Lamellar Diblock Copolymer Grain Boundary Morphology. 3. Helicoid Section Twist Boundary Energy. <i>Macromolecules</i> , 1997, 30, 3739-3746.	2.2	31
254	Multiple length scale self-organization in liquid crystalline block copolymers. <i>Macromolecular Symposia</i> , 1997, 117, 141-152.	0.4	10
255	Influence of a liquid crystalline block on the microdomain structure of block copolymers. <i>Macromolecular Symposia</i> , 1997, 117, 241-256.	0.4	35
256	Molecular Design, Synthesis, and Characterization of Liquid Crystalline Coil Diblock Copolymers with Azobenzene Side Groups. <i>Macromolecules</i> , 1997, 30, 2556-2567.	2.2	225
257	Tricontinuous Double Gyroid Cubic Phase in Triblock Copolymers of the ABA Type. <i>Macromolecules</i> , 1997, 30, 5634-5642.	2.2	81
258	Thermal annealing of roll-cast triblock copolymer films. <i>Polymer</i> , 1997, 38, 3819-3825.	1.8	64
259	Impact of Morphological Orientation in Determining Mechanical Properties in Triblock Copolymer Systems. <i>Chemistry of Materials</i> , 1996, 8, 1702-1714.	3.2	224
260	Rheology in Confined Spaces: Lessons for Tribology? or Life of a Lubricant in Flatland. <i>Langmuir</i> , 1996, 12, 4557-4558.	1.6	2
261	Architecturally-Induced Tricontinuous Cubic Morphology in Compositionally Symmetric Miktoarm Starblock Copolymers. <i>Macromolecules</i> , 1996, 29, 3390-3396.	2.2	80
262	Irradiation-modification of starch-containing thermoplastic blends. I. Modification of properties and microstructure. <i>Journal of Applied Polymer Science</i> , 1996, 61, 139-155.	1.3	17
263	Irradiation-modification of starch-containing thermoplastic blends. II. Rheological studies. <i>Journal of Applied Polymer Science</i> , 1996, 61, 157-162.	1.3	6
264	Grain boundary defects in block copolymer systems: Bulk and thin film results. <i>Macromolecular Symposia</i> , 1995, 98, 1131-1146.	0.4	8
265	Structural characteristics of biodegradable thermoplastic starch/poly(ethylene vinyl alcohol) blends. <i>Journal of Applied Polymer Science</i> , 1995, 58, 2259-2285.	1.3	65
266	Experimental high-resolution electron microscopy of polymers. <i>Polymer</i> , 1995, 36, 1743-1759.	1.8	81
267	Low-voltage, high-resolution scanning electron microscopy: a new characterization technique for polymer morphology. <i>Polymer</i> , 1995, 36, 1761-1779.	1.8	52
268	Rheological properties of thermoplastic starch and starch/poly(ethylene-co-vinyl alcohol) blends. <i>Polymer</i> , 1995, 36, 1869-1876.	1.8	39
269	Morphology and Dynamic Interaction of Defects in Polymer Liquid Crystals. <i>MRS Bulletin</i> , 1995, 20, 29-36.	1.7	2
270	A Reevaluation of Bicontinuous Cubic Phases in Starblock Copolymers. <i>Macromolecules</i> , 1995, 28, 2570-2573.	2.2	138



#	ARTICLE	IF	CITATIONS
271	Structures of Point Integer Disclinations and Their Annihilation Behavior in Thermotropic Liquid Crystal Polyesters. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 241, 103-117.	0.3	16
272	Cholesteric liquid crystals: Image contrast in the TEM. <i>Liquid Crystals</i> , 1994, 16, 769-781.	0.9	43
273	Roll-Casting of block copolymers and of block copolymer-homopolymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 341-350.	2.4	74
274	Structure and morphology of Langmuir-Blodgett films of rod-like poly(phthalocyaninato) Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50 622 Td (g	0.8	6
275	Observation of a reversible thermotropic order-order transition in a diblock copolymer. <i>Macromolecules</i> , 1994, 27, 490-501.	2.2	147
276	Compositional Dependence of the Order-Disorder Transition in Diblock Copolymers. <i>Macromolecules</i> , 1994, 27, 2392-2397.	2.2	72
277	The Gyroid: A New Equilibrium Morphology in Weakly Segregated Diblock Copolymers. <i>Macromolecules</i> , 1994, 27, 4063-4075.	2.2	710
278	Lamellar Diblock Copolymer Grain Boundary Morphology. 4. Tilt Boundaries. <i>Macromolecules</i> , 1994, 27, 6137-6144.	2.2	108
279	Lamellar diblock copolymer grain boundary morphology. 2. Scherk twist boundary energy calculations. <i>Macromolecules</i> , 1994, 27, 849-861.	2.2	56
280	Fourier transform waveguide Raman spectroscopy of laminate films. , 1994, 2089, 170.		0
281	Structure and morphology of sol-gel prepared polymer-ceramic composite thin films. <i>Polymer</i> , 1993, 34, 4607-4612.	1.8	22
282	Microphase separation of block copolymer solutions in a flow field. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993, 31, 37-46.	2.4	126
283	Influence of elastic anisotropy on the structure of Neel inversion walls in liquid crystal polymers. <i>Macromolecules</i> , 1993, 26, 6531-6535.	2.2	12
284	Disclination core structure in rigid and semiflexible main-chain polymer nematic liquid crystals. <i>Macromolecules</i> , 1993, 26, 1270-1276.	2.2	31
285	Observation of a non-constant mean curvature interface in an ABC triblock copolymer. <i>Macromolecules</i> , 1993, 26, 2636-2640.	2.2	161
286	Lamellar diblock copolymer grain boundary morphology. 1. Twist boundary characterization. <i>Macromolecules</i> , 1993, 26, 4506-4520.	2.2	120
287	The ordered bicontinuous double-diamond morphology in diblock copolymer/homopolymer blends. <i>Macromolecules</i> , 1992, 25, 422-428.	2.2	141
288	Isothermal morphology diagrams for binary blends of diblock copolymer and homopolymer. <i>Macromolecules</i> , 1992, 25, 2645-2650.	2.2	210

#	ARTICLE	IF	CITATIONS
289	Direct imaging of smectic B phase of poly(p-xylylene). Journal of Polymer Science, Part B: Polymer Physics, 1992, 30, 1285-1290.	2.4	3
290	Algorithms for the computer simulation of two-dimensional projections from structures determined by dividing surfaces. Journal of Colloid and Interface Science, 1992, 148, 398-414.	5.0	15
291	Title is missing!. Die Makromolekulare Chemie, 1992, 193, 2589-2604.	1.1	45
292	Investigation of defect structures of thermotropic liquid crystal polymers by optical and scanning EM. Proceedings Annual Meeting Electron Microscopy Society of America, 1992, 50, 274-275.	0.0	0
293	Direct observation of monomer image of poly(p-xylylene) crystal. Proceedings Annual Meeting Electron Microscopy Society of America, 1992, 50, 380-381.	0.0	0
294	Ultrastructure of poly(p-phenylenebenzobisoxazole) fibers. Macromolecules, 1991, 24, 2450-2460.	2.2	99
295	Swelling of lamellar diblock copolymer by homopolymer: influences of homopolymer concentration and molecular weight. Macromolecules, 1991, 24, 6182-6188.	2.2	255
296	Morphological studies of micelle formation in block copolymer/homopolymer blends: comparison with theory. Macromolecules, 1991, 24, 3893-3900.	2.2	25
297	Segregation of block copolymer micelles to surfaces and interfaces. Macromolecules, 1991, 24, 2748-2751.	2.2	99
298	Crystal solvates in the poly[p-phenylene(benzo[1,2-d:4,5-d']bisthiazole-2,6-diyl)]/poly(phosphoric acid) system. Journal of Polymer Science, Part B: Polymer Physics, 1991, 29, 2411-2424.	2.2	24
299	Grain boundaries in extended-chain polymers: Theory and experiment. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 64, 903-922.	0.8	30
300	Disclination interaction in an applied field: Stabilization of the Lehmann cluster. Physical Review A, 1991, 44, 8128-8140.	1.0	30
301	Ordered morphologies in binary blends of diblock copolymer and homopolymer and characterization of their intermaterial dividing surfaces. Journal of Chemical Physics, 1991, 95, 9367-9375.	1.2	147
302	Maximum Entropy Reconstruction of Low Dose, High Resolution Electron Microscope Images. , 1991, , 129-145.		0
303	Crystal morphology in pristine and doped films of poly (p-phenylene vinylene). Journal of Materials Science, 1990, 25, 311-320.	1.7	49
304	Director textures in bulk samples of liquid-crystal polymers. Die Makromolekulare Chemie Rapid Communications, 1990, 11, 657-662.	1.1	20
305	Image processing of partially periodic lattice images of polymers: The study of crystal defects. Ultramicroscopy, 1990, 32, 149-167.	0.8	26
306	Antiphase boundaries and ordering defects in syndiotactic polystyrene crystals. Macromolecules, 1990, 23, 4954-4958.	2.2	47

#	ARTICLE	IF	CITATIONS
307	Asymptotic behavior and Lorentz factor for small-angle elastic scattering profiles from preferentially oriented asymmetric bodies. <i>Journal of Applied Physics</i> , 1989, 66, 4188-4197.	1.1	35
308	Frank elastic-constant anisotropy measured from transmission-electron-microscope images of disclinations. <i>Physical Review Letters</i> , 1989, 62, 1993-1996.	2.9	58
309	Conversion of single crystal mats to ultrahigh modulus polyethylene: the formation of a continuous crystalline phase. <i>Polymer</i> , 1989, 30, 1615-1622.	1.8	27
310	Deformation of oriented high density polyethylene shish-kebab films. <i>Journal of Materials Science</i> , 1989, 24, 3311-3318.	1.7	66
311	The deformation of oriented high density polyethylene. <i>Journal of Materials Science</i> , 1989, 24, 3319-3327.	1.7	19
312	Crystalline phases of electrically conductive poly(p-phenylene vinylene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1989, 27, 2045-2059.	2.4	37
313	Paracrystalline structure of poly(paraphenylene vinylene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1989, 27, 469-487.	2.4	28
314	Morphological studies of micelle formation in block copolymer/homopolymer blends. <i>Journal of Chemical Physics</i> , 1989, 90, 5806-5825.	1.2	101
315	Three-dimensional model for twinning in polymer single crystals with inclined chains. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1989, 60, 177-203.	0.8	9
316	The Ordered Bicontinuous Double Diamond Structure in Binary Blends of Diblock Copolymer and Homopolymer.. <i>Materials Research Society Symposia Proceedings</i> , 1989, 171, 255.	0.1	0
317	High Compressive Strength Ordered Polymer Fibers and Films Via Sol Gel Microcomposite Processing. <i>Materials Research Society Symposia Proceedings</i> , 1989, 175, 193.	0.1	1
318	Periodic Area Minimization Surfaces in Microstructural Science. <i>Materials Research Society Symposia Proceedings</i> , 1989, 175, 315.	0.1	0
319	A variety of morphologies in diblock copolymer/homopolymer blends. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1989, 47, 346-347.	0.0	0
320	Apparatus for "on-the-fly" sample preparation of aerosol-grown block copolymer microdroplets. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1989, 47, 354-355.	0.0	1
321	Highly oriented single-phase blend films of high- and low-density polyethylene. <i>Journal of Materials Science</i> , 1988, 23, 2546-2552.	1.7	8
322	The effect of surface constraints on the ordering of block copolymer domains. <i>Journal of Materials Science</i> , 1988, 23, 1685-1694.	1.7	162
323	Properties and phase separation of reaction injection molded and solution polymerized polyureas as a function of hard block content. <i>Polymer Engineering and Science</i> , 1988, 28, 888-900.	1.5	33
324	Effect of short-chain branching on the morphology of LLDPE-oriented thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1988, 26, 2385-2398.	2.4	31

#	ARTICLE	IF	CITATIONS
325	Periodic area-minimizing surfaces in block copolymers. <i>Nature</i> , 1988, 334, 598-601.	13.7	439
326	Microdomain morphology of star copolymers in the strong-segregation limit. <i>Macromolecules</i> , 1988, 21, 3221-3230.	2.2	69
327	Microfibrillar network of a rigid rod polymer. 2. Small-angle x-ray scattering. <i>Macromolecules</i> , 1988, 21, 436-441.	2.2	29
328	Microfibrillar network of a rigid rod polymer. 1. Visualization by electron microscopy. <i>Macromolecules</i> , 1988, 21, 433-435.	2.2	60
329	Structural transitions from spherical to nonspherical micelles in blends of poly(styrene-butadiene) diblock copolymer and polystyrene homopolymers. <i>Macromolecules</i> , 1988, 21, 3502-3506.	2.2	154
330	Morphology of Rigid-Rod Polymer Fibers: an Overview. <i>Materials Research Society Symposia Proceedings</i> , 1988, 134, 415.	0.1	8
331	Direct Imaging of Compressive Failure Zones in Rigid-Rod Polymer Fibers. <i>Materials Research Society Symposia Proceedings</i> , 1988, 134, 465.	0.1	4
332	â€œIn-Situ Networkâ€•Composite Fibers of Pbzt/Nylon. <i>Materials Research Society Symposia Proceedings</i> , 1988, 134, 547.	0.1	2
333	Generation of Three-Dimensional Structures by Crystal/Crystal Coalescence of Poly-Para-Xylylene in Solution. <i>Materials Research Society Symposia Proceedings</i> , 1988, 138, 485.	0.1	1
334	Formation of Solid Phases by Coagulation Of A Monodomain Nematic Solution of Poly(P-Phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 375-384.	0.3	7
335	Imaging of Textures and Defects of Thermotropic Liquid Crystalline Polyesters by Electron Microscopy. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1987, 153, 63-72.	0.3	14
336	Observation of Defects in Crystalline Polymers by HREM. <i>MRS Bulletin</i> , 1987, 12, 27-35.	1.7	12
337	Materials Science of Polymers. <i>MRS Bulletin</i> , 1987, 12, 15-17.	1.7	0
338	Ordered packing arrangements of spherical micelles of diblock copolymers in two and three dimensions. <i>Macromolecules</i> , 1987, 20, 2934-2939.	2.2	124
339	Molecular orientation and conductivity in highly drawn poly(p-phenylene vinylene). <i>Synthetic Metals</i> , 1987, 20, 85-95.	2.1	121
340	Effect of morphology on the transport of gases in block copolymers. <i>Macromolecules</i> , 1987, 20, 1129-1133.	2.2	64
341	A compositional study of the morphology of 18-armed poly(styrene-isoprene) star block copolymers. <i>Macromolecules</i> , 1987, 20, 2940-2942.	2.2	70
342	Structure Formation and Phase Transformations in Solutions of a Rigid Polymer. <i>ACS Symposium Series</i> , 1987, , 181-198.	0.5	6

#	ARTICLE	IF	CITATIONS
343	Transport-morphology relationships in segmented polybutadiene polyurethanes: 2. Analysis. <i>Polymer</i> , 1987, 28, 1674-1679.	1.8	11
344	Effect of PMMA on the morphology and $\lambda$ phase transition of oriented PVF <sub>2</sub> /PMMA blends. <i>Journal of Materials Science Letters</i> , 1987, 6, 593-598.	0.5	36
345	On the modeling of small-angle X-ray scattering from systems of oriented fibrils. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1987, 25, 1607-1614.	2.4	10
346	The adhesive behaviour of poly(p-phenylene benzobisthiazole) (PBT)/epoxy composites. <i>Journal of Materials Science</i> , 1987, 22, 419-428.	1.7	3
347	Transport-morphology relationships in segmented polybutadiene polyurethanes: 1. Experimental results. <i>Polymer</i> , 1987, 28, 1667-1673.	1.8	35
348	Fluctuation scattering in a multi-arm styrene-isoprene star diblock copolymer. <i>Polymer</i> , 1987, 28, 2252-2256.	1.8	6
349	Ordered bicontinuous double-diamond structure of star block copolymers: a new equilibrium microdomain morphology. <i>Macromolecules</i> , 1986, 19, 2197-2202.	2.2	365
350	Sharpness of the functionality-induced structural transition in poly(styrene-isoprene) star block copolymers. <i>Macromolecules</i> , 1986, 19, 1288-1290.	2.2	50
351	Visualization of interfacial urethane polymerizations by means of a new microstage reactor. <i>Polymer</i> , 1986, 27, 1423-1432.	1.8	13
352	Structure investigation of poly(p-phenylene vinylene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1986, 24, 2793-2804.	2.4	142
353	Direct visualization of microstructural deformation processes in polyethylene. <i>Journal of Materials Science</i> , 1986, 21, 2239-2253.	1.7	109
354	Are domains in liquid crystalline polymers arrays of disclinations?. <i>Nature</i> , 1986, 324, 655-657.	13.7	67
355	The crystal habit and morphology of polybutylene terephthalate and related copolymers. <i>Polymer</i> , 1986, 27, 66-70.	1.8	24
356	The structure of MDI/BDO-based polyurethanes: Diffraction studies on model compounds and oriented thin films. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1985, 23, 1915-1932.	1.0	49
357	Microstructure of high modulus solid state extruded polyethylene: 2. X-ray scattering studies of 12, 24 and 36 extrusion draw ratio. <i>Polymer</i> , 1985, 26, 17-26.	1.8	23
358	Mesophase texture and defects in thermotropic liquid-crystalline polymers. <i>Faraday Discussions of the Chemical Society</i> , 1985, 79, 229.	2.2	94
359	An electron microscopy and X-ray diffraction study of the microstructures of melt-drawn polyethylene films. <i>Journal of Materials Science</i> , 1984, 19, 2098-2110.	1.7	42
360	Visualization of ordered spherical microdomains of block copolymers by phase contrast electron microscopy. <i>Journal of Materials Science Letters</i> , 1984, 3, 137-140.	0.5	12

#	ARTICLE	IF	CITATIONS
361	Hard-sphere interactions between spherical domains in diblock copolymers. <i>Macromolecules</i> , 1984, 17, 1712-1718.	2.2	507
362	Phase separation in linear and cross-linked polyurethanes. <i>Journal of Macromolecular Science - Physics</i> , 1983, 22, 553-575.	0.4	37
363	Phase contrast imaging of styrene-isoprene and styrene-butadiene block copolymers. <i>Macromolecules</i> , 1983, 16, 1514-1525.	2.2	59
364	Investigation of two crystal forms in MDI/BDO-based polyurethanes. <i>Journal of Macromolecular Science - Physics</i> , 1983, 22, 509-528.	0.4	88
365	Microstructure of high modulus solid state extruded polyethylene: 1. Electron microscopy studies of 12, 24 and 36 Å— EDR. <i>Polymer</i> , 1982, 23, 1069-1076.	1.8	20
366	Dark field imaging of semicrystalline polymers by scanning transmission electron microscopy. <i>Journal of Materials Science</i> , 1981, 16, 1-9.	1.7	20
367	Defocus electron microscopy of multiphase polymers: use and misuse. <i>Polymer</i> , 1981, 22, 333-341.	1.8	61
368	Morphology of crystalline polyurethane hard segment domains and spherulites. <i>Polymer</i> , 1980, 21, 388-392.	1.8	76
369	Morphological characterization of reaction injection moulded (RIM) polyester-based polyurethanes. <i>Polymer</i> , 1980, 21, 393-402.	1.8	53
370	Structure of High Modulus Fibers of Poly-p-Phenylene Benzobisthiazole. <i>ACS Symposium Series</i> , 1980, , 303-313.	0.5	37
371	Critical evaluation of electron microscope evidence for order in glassy polymers. <i>Polymer</i> , 1979, 20, 1413-1422.	1.8	31
372	Mass loss and etching of frozen hydrated specimens. <i>Journal of Microscopy</i> , 1979, 117, 321-332.	0.8	42
373	Electron Beam Heating Temperature Profiles in Moderately Thick Cold Stage STEM/SEM Specimens. <i>Journal of Microscopy</i> , 1978, 113, 69-75.	0.8	29
374	Image intensification and the electron microscopy of radiation sensitive polymers. <i>Polymer</i> , 1974, 15, 37-41.	1.8	43
375	Photonic Crystals. , 0, , 139-181.		0
376	Appendix C: MATLAB Program to Calculate Reflectance versus Frequency for One-dimensional Phononic Crystals. , 0, , 297-304.		0
377	Periodic Structures and Interference Lithography. , 0, , 97-112.		1
378	Phononic Crystals. , 0, , 183-213.		0

#	ARTICLE	IF	CITATIONS
379	Structural Periodicity. , 0, , 1-28.		0
380	Fabrication of Periodic Structures. , 0, , 113-137.		1
381	Dynamic Martensitic Phase Transformation in Single-Crystal Silver Microcubes. SSRN Electronic Journal, 0, , .	0.4	0