

# Richard J Spontak

## List of Publications by Citations

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199  
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5,922  
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41  
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68  
g-index

205  
ext. papers

6,376  
ext. citations

6  
avg, IF

5.83  
L-index

#	Paper	IF	Citations
199	Dielectric elastomers as next-generation polymeric actuators. <i>Soft Matter</i> , <b>2007</b> , 3, 1116-1129	3.6	325
198	Thermoplastic elastomers: fundamentals and applications. <i>Current Opinion in Colloid and Interface Science</i> , <b>2000</b> , 5, 333-340	7.6	209
197	Correlated electrical conductivity and mechanical property analysis of high-density polyethylene filled with graphite and carbon fiber. <i>Polymer</i> , <b>2002</b> , 43, 2279-2286	3.9	189
196	Atomic layer deposition on electrospun polymer fibers as a direct route to AL <sub>2</sub> O <sub>3</sub> microtubes with precise wall thickness control. <i>Nano Letters</i> , <b>2007</b> , 7, 719-22	11.5	169
195	Direct measurement of interfacial curvature distributions in a bicontinuous block copolymer morphology. <i>Physical Review Letters</i> , <b>2000</b> , 84, 518-21	7.4	162
194	Transmission Electron Microtomography and Polymer Nanostructures. <i>Macromolecules</i> , <b>2010</b> , 43, 1675-1688	15.8	152
193	Solvent-regulated ordering in block copolymers. <i>Current Opinion in Colloid and Interface Science</i> , <b>1999</b> , 4, 130-139	7.6	144
192	Self-organization and polyolefin nucleation efficacy of 1,3:2,4-di-p-methylbenzylidene sorbitol. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1997</b> , 35, 2617-2628	2.6	138
191	Phase Behavior of Ordered Diblock Copolymer Blends: Effect of Compositional Heterogeneity. <i>Macromolecules</i> , <b>1996</b> , 29, 4494-4507	5.5	122
190	Volume-exclusion effects in polyethylene blends filled with carbon black, graphite, or carbon fiber. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2002</b> , 40, 1013-1025	2.6	117
189	Redox-active organometallic vesicles: aqueous self-assembly of a diblock copolymer with a hydrophilic polyferrocenylsilane polyelectrolyte block. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 1260-4	16.4	114
188	Bottlebrush Elastomers: A New Platform for Freestanding Electroactuation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604209	24	108
187	Transmission electron microtomography in polymer research. <i>Polymer</i> , <b>2009</b> , 50, 1067-1087	3.9	105
186	Membranes for Hydrogen Purification: An Important Step toward a Hydrogen-Based Economy. <i>MRS Bulletin</i> , <b>2006</b> , 31, 735-744	3.2	85
185	Dependence of the OBDD morphology on diblock copolymer molecular weight in copolymer/homopolymer blends. <i>Macromolecules</i> , <b>1993</b> , 26, 956-962	5.5	85
184	Microstructural Analysis of a Cubic Bicontinuous Morphology in a Neat SIS Triblock Copolymer. <i>Macromolecules</i> , <b>1997</b> , 30, 3938-3941	5.5	84
183	Selectivity- and size-induced segregation of molecular and nanoscale species in microphase-ordered triblock copolymers. <i>Nano Letters</i> , <b>2006</b> , 6, 2115-20	11.5	81

182	Triblock Copolymer Organogels as High-Performance Dielectric Elastomers. <i>Macromolecules</i> , <b>2008</b> , 41, 6100-6109	5.5	78
181	Thermoplastic elastomer gels. I. Effects of composition and processing on morphology and gel behavior. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1998</b> , 36, 2379-2391	2.6	74
180	Surface-Constrained Foaming of Polymer Thin Films with Supercritical Carbon Dioxide. <i>Macromolecules</i> , <b>2004</b> , 37, 9872-9879	5.5	72
179	Ultrastretchable, cyclable and recyclable 1- and 2-dimensional conductors based on physically cross-linked thermoplastic elastomer gels. <i>Soft Matter</i> , <b>2013</b> , 9, 7695	3.6	71
178	Structure and Catalytic Properties of Pt-Modified Hyper-Cross-Linked Polystyrene Exhibiting Hierarchical Porosity. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 18234-18242	3.4	71
177	Morphological Characteristics of SEBS Thermoplastic Elastomer Gels. <i>Macromolecules</i> , <b>1996</b> , 29, 5760-5763	3.3	67
176	Polymer Nanocomposites Containing Carbon Nanofibers as Soft Printable Sensors Exhibiting Strain-Reversible Piezoresistivity. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5536-5542	15.6	66
175	Electromechanical Response of Nanostructured Polymer Systems with no Mechanical Pre-Strain. <i>Macromolecular Rapid Communications</i> , <b>2007</b> , 28, 1142-1147	4.8	66
174	Perfectly-alternating linear (AB) <sub>n</sub> multiblock copolymers: Effect of molecular design on morphology and properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2001</b> , 39, 947-955	2.6	66
173	Morphology and gas barrier properties of thin SiO <sub>x</sub> coatings on polycarbonate: Correlations with plasma-enhanced chemical vapor deposition conditions. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 704-717	2.5	62
172	Mixed protein blends composed of gelatin and Bombyx mori silk fibroin: effects of solvent-induced crystallization and composition. <i>Biomacromolecules</i> , <b>2006</b> , 7, 728-55	6.9	61
171	Tunable CO <sub>2</sub> transport through mixed polyether membranes. <i>Journal of Membrane Science</i> , <b>2005</b> , 251, 51-57	9.6	56
170	Phase Behavior and Morphological Characteristics of Compositionally Symmetric Diblock Copolymer Blends. <i>Macromolecules</i> , <b>1996</b> , 29, 8862-8870	5.5	53
169	Enhanced electroactive response of unidirectional elastomeric composites with high-dielectric-constant fibers. <i>Advanced Materials</i> , <b>2014</b> , 26, 2949-53	24	52
168	Prestrain-Free Dielectric Elastomers Based on Acrylic Thermoplastic Elastomer Gels: A Morphological and (Electro)Mechanical Property Study. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2100-2113	15.6	50
167	Phase behavior of triblock copolymers varying in molecular asymmetry. <i>Physical Review Letters</i> , <b>2005</b> , 95, 168306	7.4	48
166	Generation of functional PET microfibers through surface-initiated polymerization. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5855		47
165	Photodynamic Polymers as Comprehensive Anti-Infective Materials: Staying Ahead of a Growing Global Threat. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 25955-25959	9.5	46

164	Microphase-Separated Block Copolymers Comprising Low Surface Energy Fluorinated Blocks and Hydrophilic Blocks: Synthesis and Characterization. <i>Macromolecules</i> , <b>2002</b> , 35, 3697-3707	5.5	45
163	Cryogenic Mechanical Alloying of Poly(methyl methacrylate) with Polyisoprene and Poly(ethylene-alt-propylene). <i>Macromolecules</i> , <b>2000</b> , 33, 2595-2604	5.5	45
162	Nafion/IL hybrid membranes with tuned nanostructure for enhanced CO <sub>2</sub> separation: effects of ionic liquid and water vapor. <i>Green Chemistry</i> , <b>2018</b> , 20, 1391-1404	10	44
161	Exceptional versatility of solvated block copolymer/ionomer networks as electroactive polymers. <i>Soft Matter</i> , <b>2011</b> , 7, 1651	3.6	43
160	3D Nanometer-Scale Study of Coexisting Bicontinuous Morphologies in a Block Copolymer/Homopolymer Blend. <i>Macromolecular Rapid Communications</i> , <b>2006</b> , 27, 1424-1429	4.8	43
159	Enhanced biomimetic performance of ionic polymer-metal composite actuators prepared with nanostructured block ionomers. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 61-8	4.8	41
158	Gas-Transport and Thermal Properties of a Microphase-Ordered Poly(styrene-b-ethylene oxide-b-styrene) Triblock Copolymer and Its Blends with Poly(ethylene glycol). <i>Macromolecules</i> , <b>2004</b> , 37, 2829-2838	5.5	41
157	Advances in self-ordering macromolecules and nanostructure design. <i>Current Opinion in Colloid and Interface Science</i> , <b>1999</b> , 4, 140-146	7.6	41
156	Field-Driven Surface Segregation of Biofunctional Species on Electrospun PMMA/PEO Microfibers. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 1455-1460	4.8	40
155	Nanoparticle-regulated phase behavior of ordered block copolymers. <i>Soft Matter</i> , <b>2008</b> , 4, 1609-1612	3.6	39
154	The molecular structure and intermolecular interactions of 1,3:2,4-dibenzylidene-D-sorbitol. <i>Molecular Physics</i> , <b>2003</b> , 101, 3017-3027	1.7	39
153	Physical organogels composed of amphiphilic block copolymers and 1,3:2,4-dibenzylidene-D-sorbitol. <i>Journal of Colloid and Interface Science</i> , <b>2003</b> , 267, 509-18	9.3	38
152	Molecular, Nanostructural and Mechanical Characteristics of Lamellar Triblock Copolymer Blends: Effects of Molecular Weight and Constraint. <i>Macromolecular Rapid Communications</i> , <b>2001</b> , 22, 281-296	4.8	37
151	Self-Consistent Field Theory of Ordered Block Copolymer Blends. 1. (AB).alpha./(AB).beta. Blends. <i>Macromolecules</i> , <b>1994</b> , 27, 6363-6370	5.5	37
150	Morphological investigation of midblock-sulfonated block ionomers prepared from solvents differing in polarity. <i>Macromolecular Rapid Communications</i> , <b>2015</b> , 36, 432-8	4.8	36
149	Microfibres and macroscopic films from the coordination-driven hierarchical self-assembly of cylindrical micelles. <i>Nature Communications</i> , <b>2016</b> , 7, 12371	17.4	35
148	Addition of a Block Copolymer to Polymer Blends Produced by Cryogenic Mechanical Alloying. <i>Macromolecules</i> , <b>2000</b> , 33, 1163-1172	5.5	34
147	Mechanical and actuation behavior of electroactive nanostructured polymers. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 151, 46-52	3.9	33

- 146 Dynamic rheological behavior of DBS-induced poly(propylene glycol) physical gels. *Rheologica Acta*, **2001**, 40, 30-38 2.3 33
- 145 Linear multiblock copolymer/homopolymer blends of constant composition. 1. Low-molecular-weight homopolymers. *Macromolecules*, **1993**, 26, 5118-5124 5.5 33
- 144 Enhanced Miscibility of Low-Molecular-Weight Polystyrene/Polyisoprene Blends in Supercritical CO<sub>2</sub>. *Journal of Physical Chemistry B*, **1999**, 103, 5472-5476 3.4 32
- 143 Inherently self-sterilizing charged multiblock polymers that kill drug-resistant microbes in minutes. *Materials Horizons*, **2019**, 6, 2056-2062 14.4 31
- 142 Morphological, mechanical and gas-transport characteristics of crosslinked poly(propylene glycol): homopolymers, nanocomposites and blends. *Polymer*, **2004**, 45, 5941-5950 3.9 31
- 141 A Solvent-Vapor Approach toward the Control of Block Ionomer Morphologies. *Macromolecules*, **2016**, 49, 3126-3137 5.5 29
- 140 Dissipative particle dynamics of triblock copolymer melts: a midblock conformational study at moderate segregation. *Journal of Chemical Physics*, **2014**, 141, 244911 3.9 28
- 139 Mesoblends of Polyether Block Copolymers with Poly(ethylene glycol). *Macromolecules*, **2004**, 37, 1394-1402 5.9 28
- 138 Metal Nanoparticles Grown in the Nanostructured Matrix of Poly(octadecylsiloxane). *Langmuir*, **2000**, 16, 8221-8225 4 28
- 137 Interfacial Modification as a Route to Novel Bilayered Morphologies in Binary Block Copolymer/Homopolymer Blends. *Macromolecules*, **1998**, 31, 4975-85 5.5 28
- 136 Architecture-Induced Phase Immiscibility in a Diblock/Multiblock Copolymer Blend. *Macromolecules*, **1996**, 29, 2850-2856 5.5 28
- 135 Swelling and Free-Volume Characteristics of TEMPO-Oxidized Cellulose Nanofibril Films. *Biomacromolecules*, **2018**, 19, 1016-1025 6.9 27
- 134 Gas Permeation Properties of Poly(1,1-dihydroperfluorooctyl acrylate), Poly(1,1-dihydroperfluorooctyl methacrylate), and Poly(styrene)-b-poly(1,1-dihydroperfluorooctyl acrylate) Block Copolymers. *Macromolecules*, **2001**, 34, 5611-5619 5.5 27
- 133 Responsive PET nano/microfibers via surface-initiated polymerization. *ACS Applied Materials & Interfaces*, **2012**, 4, 59-64 9.5 26
- 132 Ternary Phase Behavior of a Triblock Copolymer in the Presence of an Endblock-Selective Homopolymer and a Midblock-Selective Oil. *Macromolecules*, **2012**, 45, 6056-6067 5.5 26
- 131 Facile and solvent-free fabrication of PEG-based membranes with interpenetrating networks for CO<sub>2</sub> separation. *Journal of Membrane Science*, **2019**, 570-571, 455-463 9.6 26
- 130 Phase-Change Thermoplastic Elastomer Blends for Tunable Shape Memory by Physical Design. *Industrial & Engineering Chemistry Research*, **2016**, 55, 12590-12597 3.9 25
- 129 Formation of dispersed nanostructures from poly(ferrocenyldimethylsilane-b-dimethylsiloxane) nanotubes upon exposure to supercritical carbon dioxide. *Langmuir*, **2004**, 20, 9304-14 4 25

128	Anomalous Phase Inversion in Polymer Blends Prepared by Cryogenic Mechanical Alloying. <i>Macromolecules</i> , <b>2001</b> , 34, 1536-1538	5.5	25
127	Stability of Organically Modified Montmorillonites and Their Polystyrene Nanocomposites After Prolonged Thermal Treatment. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2757-2767	9.6	24
126	Synthesis of Metal-Loaded Poly(aminoethyl)(aminopropyl)silsesquioxane Colloids and Their Self-Organization into Dendrites. <i>Nano Letters</i> , <b>2002</b> , 2, 873-876	11.5	24
125	Interfacial and topological measurements of bicontinuous polymer morphologies. <i>Physical Review E</i> , <b>2001</b> , 64, 010803	2.4	23
124	Communication: Molecular-level insights into asymmetric triblock copolymers: network and phase development. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 121103	3.9	22
123	Extended Chemical CrossLinking of a Thermoplastic Polyimide: Macroscopic and Microscopic Property Development. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 1461-1466	4.8	22
122	Effects of Pressure and Nanoparticle Functionality on CO <sub>2</sub> -Selective Nanocomposites Derived from Crosslinked Poly(ethylene glycol). <i>Macromolecular Chemistry and Physics</i> , <b>2004</b> , 205, 2409-2419	2.6	21
121	Phase Behavior of Poly(methyl methacrylate)/Poly(vinylidene fluoride) Blends in the Presence of High-Pressure Carbon Dioxide. <i>Macromolecular Chemistry and Physics</i> , <b>2003</b> , 204, 2064-2077	2.6	21
120	Evidence of Hierarchical Order in an Amphiphilic Graft Terpolymer Gel. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 12069-12071		21
119	Incorporation of an ionic liquid into a midblock-sulfonated multiblock polymer for CO <sub>2</sub> capture. <i>Journal of Membrane Science</i> , <b>2019</b> , 588, 117193	9.6	20
118	Phase Behaviour of Block Copolymer Blends		20
117	Highly Flexible Aqueous Photovoltaic Elastomer Gels Derived from Sulfonated Block Ionomers. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401941	21.8	19
116	Modification of Melt-Spun Isotactic Polypropylene and Poly(lactic acid) Bicomponent Filaments with a Premade Block Copolymer. <i>Macromolecules</i> , <b>2012</b> , 45, 913-925	5.5	19
115	Solvent-Templated Block Ionomers for Base- and Acid-Gas Separations: Effect of Humidity on Ammonia and Carbon Dioxide Permeation. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700854	4.6	18
114	Competitive hydrogen-bonding in polymer solutions with mixed solvents. <i>Soft Matter</i> , <b>2009</b> , 5, 304-307	3.6	18
113	Thermodynamics of Poly(dimethylsiloxane)/Poly(ethylmethylsiloxane) (PDMS/PEMS) Blends in the Presence of High-Pressure CO <sub>2</sub> . <i>Macromolecules</i> , <b>2004</b> , 37, 2588-2595	5.5	18
112	Humidity-responsive molecular gate-opening mechanism for gas separation in ultrasensitive nanocellulose/IL hybrid membranes. <i>Green Chemistry</i> , <b>2020</b> , 22, 3546-3557	10	17
111	Microphase-Separated Morphologies and Molecular Network Topologies in Multiblock Copolymer Gels. <i>Macromolecules</i> , <b>2018</b> , 51, 5173-5181	5.5	16

110	Property and morphology development in nanocomposite thermoplastic elastomer gels. <i>Langmuir</i> , <b>2005</b> , 21, 3106-15	4	16
109	Effect of chain length and surface density on looped polymers grafted to an impenetrable surface. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 5137-5143	3.9	16
108	Effect of polyelectrolyte on the barrier efficacy of layer-by-layer nanoclay coatings. <i>Journal of Membrane Science</i> , <b>2017</b> , 526, 172-180	9.6	15
107	Bicomponent Block Copolymers Derived from One or More Random Copolymers as an Alternative Route to Controllable Phase Behavior. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1700207	4.8	15
106	Magnetic field-induced alignment of nanoparticles in electrospun microfibers. <i>RSC Advances</i> , <b>2012</b> , 2, 4603	3.7	15
105	Cosolvent-regulated time/composition rheological equivalence in block copolymer solutions. <i>Soft Matter</i> , <b>2010</b> , 6, 4331	3.6	15
104	Morphological characteristics of the lyotropic and gel phases in the cellulose/NH <sub>3</sub> /NH <sub>4</sub> SCN system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1996</b> , 34, 2049-2058	2.6	15
103	Equilibrium conformations and dynamic relaxation of double-tethered chain molecules at an impenetrable interface. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 7712-7722	3.9	15
102	Physical Microfabrication of Shape-Memory Polymer Systems via Bicomponent Fiber Spinning. <i>Macromolecular Rapid Communications</i> , <b>2016</b> , 37, 1837-1843	4.8	15
101	Hierarchical Self-Assembly of Toroidal Micelles into Multidimensional Nanoporous Superstructures. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 1040-1045	6.6	14
100	Toward the development of a versatile functionalized silicone coating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 22544-52	9.5	14
99	Block copolymer self-organization vs. interfacial modification in bilayered thin-film laminates. <i>Soft Matter</i> , <b>2011</b> , 7, 3268	3.6	14
98	Bicontinuous Morphologies in Homologous Multiblock Copolymers and Their Homopolymer Blends. <i>Macromolecules</i> , <b>1998</b> , 31, 7546-7549	5.5	14
97	Photodynamic Coatings on Polymer Microfibers for Pathogen Inactivation: Effects of Application Method and Composition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 155-163	9.5	14
96	Redox-Active Organometallic Vesicles: Aqueous Self-Assembly of a Diblock Copolymer with a Hydrophilic Polyferrocenylsilane Polyelectrolyte Block. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 1280-1284	3.6	13
95	Platinum nanoparticles generated in functionality-enhanced reaction media based on polyoctadecylsiloxane with long-chain functional modifiers. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 6175-85	3.4	13
94	Modification of a thermoplastic elastomer gel through the addition of an endblock-selective homopolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1999</b> , 37, 1863-1872	2.6	13
93	Mesogel Networks via Selective Midblock Swelling of Lamellar Triblock Copolymers. <i>Langmuir</i> , <b>1999</b> , 15, 7886-7889	4	13



92	Modeling Polymer Glass Transition Properties from Empirical Monomer Data with the SAFT- $\Gamma$ Mie Force Field. <i>Macromolecules</i> , <b>2018</b> , 51, 9526-9537	5.5	13
91	Thermoplastic Elastomer Systems Containing Carbon Nanofibers as Soft Piezoresistive Sensors. <i>ACS Omega</i> , <b>2018</b> , 3, 12648-12657	3.9	13
90	Adhesion and friction in polymer films on solid substrates: conformal sites analysis and corresponding surface measurements. <i>Soft Matter</i> , <b>2017</b> , 13, 3492-3505	3.6	12
89	Highly CO <sub>2</sub> -permeable membranes derived from a midblock-sulfonated multiblock polymer after submersion in water. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	12
88	Dual modes of self-assembly in superstrongly segregated bicomponent triblock copolymer melts. <i>Physical Review E</i> , <b>2015</b> , 91, 010601	2.4	12
87	Complex Phase Behavior and Network Characteristics of Midblock-Solvated Triblock Copolymers as Physically Cross-Linked Soft Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39940-39944	9.5	12
86	Factors affecting time-composition equivalence in ternary block copolymer/cosolvent systems. <i>Soft Matter</i> , <b>2012</b> , 8, 1334-1343	3.6	12
85	Complex Phase Behavior of a Disordered Random-Diblock Copolymer in the Presence of a Parent Homopolymer. <i>Langmuir</i> , <b>1997</b> , 13, 2250-2258	4	12
84	Autophobicity-driven surface segregation and patterning of core-shell microgel nanoparticles. <i>Nano Letters</i> , <b>2008</b> , 8, 3010-6	11.5	12
83	Toughening Poly(lactic acid) with Thermoplastic Elastomers Modified by Thiol-ene Click Chemistry. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 10830-10839	8.3	11
82	Crystallization-Directed Anisotropic Electroactuation in Selectively Solvated Olefinic Thermoplastic Elastomers: A Thermal and (Electro)Mechanical Property Study. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803467	15.6	11
81	Thermorheological behavior of coexisting physical networks: combining SAFIN and SAMIN organogels. <i>Soft Matter</i> , <b>2012</b> , 8, 12025	3.6	11
80	Midblock-sulfonated triblock ionomers derived from a long-chain poly[styrene- <i>b</i> -butadiene- <i>b</i> -styrene] triblock copolymer. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 3430	13	11
79	Multiscale Dewetting of Low-Molecular-Weight Block Copolymer Ultrathin Films. <i>Macromolecular Rapid Communications</i> , <b>2002</b> , 23, 205-209	4.8	11
78	Topological coarsening of low-molecular-weight block copolymer ultrathin films by environmental AFM. <i>Polymer</i> , <b>2002</b> , 43, 6719-6726	3.9	11
77	ABA Triblock Copolymer Gels Modified with an A-Compatible Semicrystalline Homopolymer. <i>Langmuir</i> , <b>2002</b> , 18, 8266-8270	4	11
76	Block Copolymer/Homopolymer Mesoblends: Preparation and Characterization. <i>Macromolecules</i> , <b>2002</b> , 35, 2268-2276	5.5	11
75	Morphological and Isothermal Diffusive Probe Analyses of Low-Molecular-Weight Diblock Copolymers. <i>Macromolecules</i> , <b>1998</b> , 31, 2174-2184	5.5	11



74	Conformational analysis of double-tethered chain molecules at an impenetrable interface: A Monte Carlo study. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 5179-5185	3.9	11
73	Water-induced nanochannel networks in self-assembled block ionomers. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 101907	3.4	11
72	Hydrothermal Conditioning of Physical Hydrogels Prepared from a Midblock-Sulfonated Multiblock Copolymer. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1600666	4.8	10
71	Quasi-Solid-State Dye-Sensitized Solar Cells Containing a Charged Thermoplastic Elastomeric Gel Electrolyte and Hydrophilic/phobic Photosensitizers. <i>Solar Rrl</i> , <b>2018</b> , 2, 1700145	7.1	10
70	Midblock sulfonation of a model long-chain poly(p-tert-butylstyrene-b-styrene-b-p-tert-butylstyrene) triblock copolymer. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 25262		10
69	Electroactuation of solvated triblock copolymer dielectric elastomers: Decoupling the roles of mechanical prestrain and specimen thickness. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2011</b> , 49, 1569-1582	2.6	10
68	In situ Growth of Pd Nanoparticles in Crosslinked Polymer Matrices. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 1926-1931	4.8	10
67	Tunable Microcellular Morphologies from Poly(ferrocenylsilane) Ceramic Precursors Foamed in Supercritical CO <sub>2</sub> . <i>Macromolecular Chemistry and Physics</i> , <b>2004</b> , 205, 2398-2408	2.6	10
66	Dewetting of Star Nanogel/Homopolymer Blends from an Immiscible Homopolymer Substrate. <i>Macromolecules</i> , <b>2004</b> , 37, 7857-7860	5.5	10
65	Phase Behavior of Poly(methyl methacrylate)/Poly(vinylidene fluoride) Blends with and without High-Pressure CO <sub>2</sub> . <i>Macromolecules</i> , <b>2003</b> , 36, 4245-4249	5.5	10
64	Influence of fiber characteristics on directed electroactuation of anisotropic dielectric electroactive polymers with tunability. <i>Composites Science and Technology</i> , <b>2018</b> , 154, 187-193	8.6	10
63	Communication: Molecular-level description of constrained chain topologies in multiblock copolymer gel networks. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 231101	3.9	10
62	An integrated materials approach to ultrapermeable and ultraselective CO polymer membranes.. <i>Science</i> , <b>2022</b> , 376, 90-94	33.3	10
61	Effect of Composition on the Molecular Dynamics of Biodegradable Isotactic Polypropylene/Thermoplastic Starch Blends. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16050-16059	8.2	9
60	Effect of Systematic Hydrogenation on the Phase Behavior and Nanostructural Dimensions of Block Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3186-3190	9.5	9
59	Solid-State Blending of Polymers by Cryogenic Mechanical Alloying. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 629, 1		9
58	Spectroscopic and Rheological Cross-Analysis of Polyester Polyol Cure Behavior: Role of Polyester Secondary Hydroxyl Content. <i>ACS Omega</i> , <b>2019</b> , 4, 932-939	3.9	9
57	Film-Stabilizing Attributes of Polymeric Core-Shell Nanoparticles. <i>ACS Nano</i> , <b>2015</b> , 9, 7940-9	16.7	8

56	Tapered Multiblock Star Copolymers: Synthesis, Selective Hydrogenation, and Properties. <i>Macromolecules</i> , <b>2020</b> , 53, 4422-4434	5.5	8
55	Molecular Simulations of Thermoset Polymers Implementing Theoretical Kinetics with Top-Down Coarse-Grained Models. <i>Macromolecules</i> , <b>2020</b> , 53, 2310-2322	5.5	8
54	Controlled black liquor viscosity reduction through salting-in. <i>AIChE Journal</i> , <b>1996</b> , 42, 2319-2326	3.6	8
53	Shear-Dependent Structures of Flocculated Micro/Nanofibrillated Cellulose (MNFC) in Aqueous Suspensions. <i>Biomacromolecules</i> , <b>2020</b> , 21, 3561-3570	6.9	8
52	Rapid and Repetitive Inactivation of SARS-CoV-2 and Human Coronavirus on Self-Disinfecting Anionic Polymers. <i>Advanced Science</i> , <b>2021</b> , 8, e2003503	13.6	8
51	Solution self-assembly of ABC triblock terpolymers with a central crystallizable poly(ferrocenyldimethylsilane) core-forming segment. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 2559-2569	4.9	7
50	Olefinic Thermoplastic Elastomer Gels: Combining Polymer Crystallization and Microphase Separation in a Selective Solvent. <i>ACS Macro Letters</i> , <b>2016</b> , 5, 1273-1277	6.6	7
49	Multipurpose Polymeric Coating for Functionalizing Inert Polymer Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5694-705	9.5	7
48	Selectively solvated triblock copolymer networks under biaxial strain. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 101908	3.4	7
47	Form-stable phase-change elastomer gels derived from thermoplastic elastomer copolyesters swollen with fatty acids. <i>Thermochimica Acta</i> , <b>2020</b> , 686, 178566	2.9	7
46	Self-Assembly of a Midblock-Sulfonated Pentablock Copolymer in Mixed Organic Solvents: A Combined SAXS and SANS Analysis. <i>Langmuir</i> , <b>2019</b> , 35, 1032-1039	4	7
45	Mesophase characteristics of cellulose nanocrystal films prepared from electrolyte suspensions. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 599, 207-218	9.3	7
44	Nanoscale considerations responsible for diverse macroscopic phase behavior in monosubstituted isobutyl-POSS/poly(ethylene oxide) blends. <i>Soft Matter</i> , <b>2017</b> , 13, 8672-8677	3.6	6
43	(Electro)mechanical behavior of selectively solvated diblock/triblock copolymer blends. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 242901	3.4	6
42	Quantitative Calorimetric Studies of the Chiral Nematic Mesophase in Aqueous Cellulose Nanocrystal Suspensions. <i>Langmuir</i> , <b>2020</b> , 36, 10830-10837	4	6
41	Polymer blend compatibilization by the addition of block copolymers <b>2020</b> , 57-102		6
40	DESIGNING DIELECTRIC ELASTOMERS OVER MULTIPLE LENGTH SCALES FOR 21ST CENTURY SOFT MATERIALS TECHNOLOGIES. <i>Rubber Chemistry and Technology</i> , <b>2017</b> , 90, 207-224	1.7	5
39	Tuning the performance of aqueous photovoltaic elastomer gels by solvent polarity and nanostructure development. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2017</b> , 55, 85-95	2.6	5

38	Miscibilization of reactive polymers during early-stage spinodal decomposition. <i>AIChE Journal</i> , <b>1998</b> , 44, 416-426	3.6	5
37	Stress Relaxation Activation in Rubber-Modified Polymer Systems Exhibiting Controlled Miscibility through Blending. <i>Macromolecules</i> , <b>2000</b> , 33, 2290-2292	5.5	5
36	Molecular Dynamics Study of Polystyrene-b-poly(ethylene oxide) Asymmetric Diblock Copolymer Systems. <i>Langmuir</i> , <b>2017</b> , 33, 8856-8868	4	4
35	Deviation from time-composition equivalence in polymer solutions with selective cosolvents. <i>AIP Advances</i> , <b>2011</b> , 1, 042159	1.5	4
34	Gas-separation and physical properties of ABA triblock copolymers synthesized from polyimide and hydrophilic adamantane derivatives. <i>Polymer</i> , <b>2020</b> , 202, 122642	3.9	3
33	Ordering and Grain Growth in Charged Block Copolymer Bulk Films: A Comparison of Solvent-Related Processes. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701667	4.6	3
32	Interfacial stabilization of bilayered nanolaminates by asymmetric block copolymers. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 101602	3.4	3
31	Compositionally symmetric diblock copolymer blends of moderate polydispersity. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1997</b> , 35, 2653-2658	2.6	3
30	Microcellular Polymeric Foams (MPFs) Generated Continuously in Supercritical Carbon Dioxide. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 629, 1		3
29	Effect of molecular weight on crystalline structure in thermotropic random copolymers. <i>Journal of Polymer Science, Part C: Polymer Letters</i> , <b>1990</b> , 28, 271-278		3
28	UV-Curable Polymer Nanocomposites Based on Poly(dimethylsiloxane) and Zirconia Nanoparticles: Reactive versus Passive Nanofillers. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 394-403	4.3	3
27	Toward Universal Photodynamic Coatings for Infection Control. <i>Frontiers in Medicine</i> , <b>2021</b> , 8, 657837	4.9	3
26	Molecular and morphological characterization of midblock-sulfonated styrenic triblock copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2017</b> , 55, 490-497	2.6	2
25	Thermomechanical and Free-Volume Properties of Polyester Polyol Films for Coatings Applications: Role of Diol Composition. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 2398-2406	4.3	2
24	Ionic complexation of endblock-sulfonated thermoplastic elastomers and their physical gels for improved thermomechanical performance. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 567, 419-428	9.3	2
23	Nanotechnological strategies yielding high-barrier plastic food packaging <b>2017</b> , 1-43		2
22	Nanoscale distribution and segregation of midblock-selective co-penetrants in ABA triblock copolymer lamellae. <i>RSC Advances</i> , <b>2013</b> , 3, 22863	3.7	2
21	Nanoparticle Network Formation in Nanostructured and Disordered Block Copolymer Matrices. <i>Nanoscale Research Letters</i> , <b>2010</b> , 5, 1712-8	5	2

20	The response of microstructure to processing in a series of poly(siloxaneimide) copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1993</b> , 31, 467-474	2.6	2
19	Determination of Bulk and Solution Morphologies by Transmission Electron Microscopy 1649-1685		2
18	Optimization of the Rubber Formulation for Footwear Applications from the Response Surface Method. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
17	Incorporation of Metallic Species into Midblock-Sulfonated Block Ionomers. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800427	4.8	2
16	Thermoplastic elastomer gels. I. Effects of composition and processing on morphology and gel behavior <b>1998</b> , 36, 2379		2
15	Quasi-Solid-State Dye-Sensitized Solar Cells Containing a Charged Thermoplastic Elastomeric Gel Electrolyte and Hydrophilic/phobic Photosensitizers. <i>Solar Rrl</i> , <b>2018</b> , 2, 1770155	7.1	1
14	Nanostructured Organogels via Molecular Self-Assembly 791-834		1
13	Morphological development and rheological changes of phenoxy/SAN blends during in-situ polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2007</b> , 45, 2614-2619	2.6	1
12	Network topology and stability of homologous multiblock copolymer physical gels. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 124904	3.9	1
11	Anion-Specific Water Interactions with Nanochitin: Donnan and Osmotic Pressure Effects as Revealed by Quartz Microgravimetry. <i>Langmuir</i> , <b>2021</b> , 37, 11242-11250	4	1
10	Determination of Bulk and Solution Morphologies by Transmission Electron Microscopy 1-42		1
9	Preparation of cellulose nanofibrils for imaging purposes: comparison of liquid cryogens for rapid vitrification. <i>Cellulose</i> , <b>2018</b> , 25, 4269-4274	5.5	0
8	Cellulose nanofibers and the film-formation dilemma: Drying temperature and tunable optical, mechanical and wetting properties of nanocomposite films composed of waterborne sulfopolyesters. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 598, 369-378	9.3	0
7	Advances in stimuli-responsive and functional thermoplastic elastomers <b>2022</b> , 353-404		0
6	Dielectric Elastomers (DEs) as EAPs: Materials <b>2016</b> , 1-28		
5	Macromol. Rapid Commun. 1/2012. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 100-100	4.8	
4	Dielectric Elastomers (DEs) as EAPs: Materials <b>2016</b> , 687-714		
3	Dielectric and Resistive Heating of Polymeric Media: Toward Remote Thermal Activation of Stimuli-Responsive Soft Materials. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1800669	4.8	

- 2 Morphological Studies of Solution-Crystallized Thermoplastic Elastomers with Polyethylene Endblocks and a Random-Copolymer Midblock. *Macromolecular Rapid Communications*, **2021**, 42, e210044<sup>8</sup>
- 1 Advances in Functionalizing the Interior and Exterior of Polymer Nanofibers **2022**, 290-344