

# Richard J Spontak

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1656903/richard-j-spontak-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

199  
papers

5,922  
citations

41  
h-index

68  
g-index

205  
ext. papers

6,376  
ext. citations

6  
avg, IF

5.83  
L-index

#	Paper	IF	Citations
199	Advances in stimuli-responsive and functional thermoplastic elastomers <b>2022</b> , 353-404		0
198	Advances in Functionalizing the Interior and Exterior of Polymer Nanofibers <b>2022</b> , 290-344		
197	An integrated materials approach to ultrapermeable and ultrasensitive CO polymer membranes.. <i>Science</i> , <b>2022</b> , 376, 90-94	33.3	10
196	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
195	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
194	Toward Universal Photodynamic Coatings for Infection Control. <i>Frontiers in Medicine</i> , <b>2021</b> , 8, 657837	4.9	3
193	Morphological Studies of Solution-Crystallized Thermoplastic Elastomers with Polyethylene Endblocks and a Random-Copolymer Midblock. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2100442	4.8	7
192	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
191	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
190	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
189	Tapered Multiblock Star Copolymers: Synthesis, Selective Hydrogenation, and Properties. <i>Macromolecules</i> , <b>2020</b> , 53, 4422-4434	5.5	8
188	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
187	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
186	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
185	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
184	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
183	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

182	Optimization of the Rubber Formulation for Footwear Applications from the Response Surface Method. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
181	Shear-Dependent Structures of Flocculated Micro/Nanofibrillated Cellulose (MNFC) in Aqueous Suspensions. <i>Biomacromolecules</i> , <b>2020</b> , 21, 3561-3570	6.9	8
180	Network topology and stability of homologous multiblock copolymer physical gels. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 124904	3.9	1
179	Quantitative Calorimetric Studies of the Chiral Nematic Mesophase in Aqueous Cellulose Nanocrystal Suspensions. <i>Langmuir</i> , <b>2020</b> , 36, 10830-10837	4	6
178	Polymer blend compatibilization by the addition of block copolymers <b>2020</b> , 57-102		6
177	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
176	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	8.3	9
175	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
174	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
173	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
172	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
171	Inherently self-sterilizing charged multiblock polymers that kill drug-resistant microbes in minutes. <i>Materials Horizons</i> , <b>2019</b> , 6, 2056-2062	14.4	31
170	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
169	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
168	Facile and solvent-free fabrication of PEG-based membranes with interpenetrating networks for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , <b>2019</b> , 570-571, 455-463	9.6	26
167	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	
166	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
165	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

164	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
163	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
162	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
161	Swelling and Free-Volume Characteristics of TEMPO-Oxidized Cellulose Nanofibril Films. <i>Biomacromolecules</i> , <b>2018</b> , 19, 1016-1025	6.9	27
160	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
159	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
158	Microphase-Separated Morphologies and Molecular Network Topologies in Multiblock Copolymer Gels. <i>Macromolecules</i> , <b>2018</b> , 51, 5173-5181	5.5	16
157	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
156	Hierarchical Self-Assembly of Toroidal Micelles into Multidimensional Nanoporous Superstructures. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 1040-1045	6.6	14
155	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
154	Modeling Polymer Glass Transition Properties from Empirical Monomer Data with the SAFT- $\chi$ Mie Force Field. <i>Macromolecules</i> , <b>2018</b> , 51, 9526-9537	5.5	13
153	Thermoplastic Elastomer Systems Containing Carbon Nanofibers as Soft Piezoresistive Sensors. <i>ACS Omega</i> , <b>2018</b> , 3, 12648-12657	3.9	13
152	Incorporation of Metallic Species into Midblock-Sulfonated Block Ionomers. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800427	4.8	2
151	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
150	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
149	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
148	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
147	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

146	Nanotechnological strategies yielding high-barrier plastic food packaging <b>2017</b> , 1-43		2
145	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
144	Molecular Dynamics Study of Polystyrene-b-poly(ethylene oxide) Asymmetric Diblock Copolymer Systems. <i>Langmuir</i> , <b>2017</b> , 33, 8856-8868	4	4
143	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
142	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
141	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
140	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
139	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
138	Bottlebrush Elastomers: A New Platform for Freestanding Electroactuation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604209	24	108
137	Phase-Change Thermoplastic Elastomer Blends for Tunable Shape Memory by Physical Design. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 12590-12597	3.9	25
136	Microfibrils 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
135	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
134	Dielectric Elastomers (DEs) as EAPs: Materials <b>2016</b> , 1-28		
133	Multipurpose Polymeric Coating for Functionalizing Inert Polymer Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5694-705	9.5	7
132	Water-induced nanochannel networks in self-assembled block ionomers. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 101907	3.4	11
131	A Solvent-Vapor Approach toward the Control of Block Ionomer Morphologies. <i>Macromolecules</i> , <b>2016</b> , 49, 3126-3137	5.5	29
130	Dielectric Elastomers (DEs) as EAPs: Materials <b>2016</b> , 687-714		
129	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

128	Film-Stabilizing Attributes of Polymeric Core-Shell Nanoparticles. <i>ACS Nano</i> , <b>2015</b> , 9, 7940-9	16.7	8
127	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
126	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
125	Highly Flexible Aqueous Photovoltaic Elastomer Gels Derived from Sulfonated Block Ionomers. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401941	21.8	19
124	Dissipative particle dynamics of triblock copolymer melts: a midblock conformational study at moderate segregation. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 244911	3.9	28
123	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
122	Enhanced electroactive response of unidirectional elastomeric composites with high-dielectric-constant fibers. <i>Advanced Materials</i> , <b>2014</b> , 26, 2949-53	24	52
121	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
120	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
119	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
118	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
117	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 <sup>13</sup>	13	11
116	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
115	Macromol. Rapid Commun. 1/2012. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 100-100	4.8	
114	Responsive PET nano/microfibers via surface-initiated polymerization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 59-64	9.5	26
113	Thermorheological behavior of coexisting physical networks: combining SAFIN and SAMIN organogels. <i>Soft Matter</i> , <b>2012</b> , 8, 12025	3.6	11
112	Generation of functional PET microfibers through surface-initiated polymerization. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5855		47
111	Factors affecting time/composition equivalence in ternary block copolymer/cosolvent systems. <i>Soft Matter</i> , <b>2012</b> , 8, 1334-1343	3.6	12

110	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
109	Ternary Phase Behavior of a Triblock Copolymer in the Presence of an Endblock-Selective Homopolymer and a Midblock-Selective Oil. <i>Macromolecules</i> , <b>2012</b> , 45, 6056-6067	5.5	26
108	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
107	Magnetic field-induced alignment of nanoparticles in electrospun microfibers. <i>RSC Advances</i> , <b>2012</b> , 2, 4603	3.7	15
106	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
105	Interfacial stabilization of bilayered nanolaminates by asymmetric block copolymers. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 101602	3.4	3
104	Selectively solvated triblock copolymer networks under biaxial strain. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 101908	3.4	7
103	Deviation from time-composition equivalence in polymer solutions with selective cosolvents. <i>AIP Advances</i> , <b>2011</b> , 1, 042159	1.5	4
102	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
101	Block copolymer self-organization vs. interfacial modification in bilayered thin-film laminates. <i>Soft Matter</i> , <b>2011</b> , 7, 3268	3.6	14
100	Exceptional versatility of solvated block copolymer/ionomer networks as electroactive polymers. <i>Soft Matter</i> , <b>2011</b> , 7, 1651	3.6	43
99	(Electro)mechanical behavior of selectively solvated diblock/triblock copolymer blends. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 242901	3.4	6
98	Transmission Electron Microtomography and Polymer Nanostructures. <i>Macromolecules</i> , <b>2010</b> , 43, 1675-1688	15.8	152
97	Cosolvent-regulated time/composition rheological equivalence in block copolymer solutions. <i>Soft Matter</i> , <b>2010</b> , 6, 4331	3.6	15
96	Nanoparticle Network Formation in Nanostructured and Disordered Block Copolymer Matrices. <i>Nanoscale Research Letters</i> , <b>2010</b> , 5, 1712-8	5	2
95	Transmission electron microtomography in polymer research. <i>Polymer</i> , <b>2009</b> , 50, 1067-1087	3.9	105
94	Mechanical and actuation behavior of electroactive nanostructured polymers. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 151, 46-52	3.9	33
93	Competitive hydrogen-bonding in polymer solutions with mixed solvents. <i>Soft Matter</i> , <b>2009</b> , 5, 304-307	3.6	18

92	Nanoparticle-regulated phase behavior of ordered block copolymers. <i>Soft Matter</i> , <b>2008</b> , 4, 1609-1612	3.6	39
91	Triblock Copolymer Organogels as High-Performance Dielectric Elastomers. <i>Macromolecules</i> , <b>2008</b> , 41, 6100-6109	5.5	78
90	Autophobicity-driven surface segregation and patterning of core-shell microgel nanoparticles. <i>Nano Letters</i> , <b>2008</b> , 8, 3010-6	11.5	12
89	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
88	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
87	In situ Growth of Pd Nanoparticles in Crosslinked Polymer Matrices. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 1926-1931	4.8	10
86	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
85	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
84	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
83	Dielectric elastomers as next-generation polymeric actuators. <i>Soft Matter</i> , <b>2007</b> , 3, 1116-1129	3.6	325
82	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
81	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
80	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
79	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, 728-35	6.9	61
78	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
77	Property and morphology development in nanocomposite thermoplastic elastomer gels. <i>Langmuir</i> , <b>2005</b> , 21, 3106-15	4	16
76	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
75	Phase behavior of triblock copolymers varying in molecular asymmetry. <i>Physical Review Letters</i> , <b>2005</b> , 95, 168306	7.4	48



74	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
73	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
72	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
71	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
70	Morphological, mechanical and gas-transport characteristics of crosslinked poly(propylene glycol): homopolymers, nanocomposites and blends. <i>Polymer</i> , <b>2004</b> , 45, 5941-5950	3.9	31
69	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
68	Formation of dispersed nanostructures from poly(ferrocenyldimethylsilane-b-dimethylsiloxane) nanotubes upon exposure to supercritical carbon dioxide. <i>Langmuir</i> , <b>2004</b> , 20, 9304-14	4	25
67	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
66	Mesoblends of Polyether Block Copolymers with Poly(ethylene glycol). <i>Macromolecules</i> , <b>2004</b> , 37, 1394-1402	3.9	28
65	Surface-Constrained Foaming of Polymer Thin Films with Supercritical Carbon Dioxide. <i>Macromolecules</i> , <b>2004</b> , 37, 9872-9879	5.5	72
64	Dewetting of Star Nanogel/Homopolymer Blends from an Immiscible Homopolymer Substrate. <i>Macromolecules</i> , <b>2004</b> , 37, 7857-7860	5.5	10
63	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
62	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
61	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
60	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
59	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
58	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
57	Multiscale Dewetting of Low-Molecular-Weight Block Copolymer Ultrathin Films. <i>Macromolecular Rapid Communications</i> , <b>2002</b> , 23, 205-209	4.8	11

56	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
55	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
54	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
53	ABA Triblock Copolymer Gels Modified with an A-Compatible Semicrystalline Homopolymer. <i>Langmuir</i> , <b>2002</b> , 18, 8266-8270	4	11
52	Block Copolymer/Homopolymer Mesoblends: Preparation and Characterization. <i>Macromolecules</i> , <b>2002</b> , 35, 2268-2276	5.5	11
51	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
50	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
49	Dynamic rheological behavior of DBS-induced poly(propylene glycol) physical gels. <i>Rheologica Acta</i> , <b>2001</b> , 40, 30-38	2.3	33
48	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
47	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
46	Interfacial and topological measurements of bicontinuous polymer morphologies. <i>Physical Review E</i> , <b>2001</b> , 64, 010803	2.4	23
45	Anomalous Phase Inversion in Polymer Blends Prepared by Cryogenic Mechanical Alloying. <i>Macromolecules</i> , <b>2001</b> , 34, 1536-1538	5.5	25
44	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. <i>Macromolecules</i> , <b>2001</b> , 34, 5611-5619	5.5	27
43	Thermoplastic elastomers: fundamentals and applications. <i>Current Opinion in Colloid and Interface Science</i> , <b>2000</b> , 5, 333-340	7.6	209
42	Microcellular Polymeric Foams (MPFs) Generated Continuously in Supercritical Carbon Dioxide. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 629, 1		3
41	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
40	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
39	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

38	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
37	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
36	Metal Nanoparticles Grown in the Nanostructured Matrix of Poly(octadecylsiloxane). <i>Langmuir</i> , <b>2000</b> , 16, 8221-8225	4	28
35	Solid-State Blending of Polymers by Cryogenic Mechanical Alloying. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 629, 1		9
34	Solvent-regulated ordering in block copolymers. <i>Current Opinion in Colloid and Interface Science</i> , <b>1999</b> , 4, 130-139	7.6	144
33	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
32	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
31	Enhanced Miscibility of Low-Molecular-Weight Polystyrene/Polyisoprene Blends in Supercritical CO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 5472-5476	3.4	32
30	Mesogel Networks via Selective Midblock Swelling of Lamellar Triblock Copolymers. <i>Langmuir</i> , <b>1999</b> , 15, 7886-7889	4	13
29	Miscibilization of reactive polymers during early-stage spinodal decomposition. <i>AIChE Journal</i> , <b>1998</b> , 44, 416-426	3.6	5
28	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
27	Morphological and Isothermal Diffusive Probe Analyses of Low-Molecular-Weight Diblock Copolymers. <i>Macromolecules</i> , <b>1998</b> , 31, 2174-2184	5.5	11
26	Interfacial Modification as a Route to Novel Bilayered Morphologies in Binary Block Copolymer/Homopolymer Blends. <i>Macromolecules</i> , <b>1998</b> , 31, 4975-85	5.5	28
25	Bicontinuous Morphologies in Homologous Multiblock Copolymers and Their Homopolymer Blends. <i>Macromolecules</i> , <b>1998</b> , 31, 7546-7549	5.5	14
24	Thermoplastic elastomer gels. I. Effects of composition and processing on morphology and gel behavior <b>1998</b> , 36, 2379		2
23	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
22	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
21	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

20	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
19	Architecture-Induced Phase Immiscibility in a Diblock/Multiblock Copolymer Blend. <i>Macromolecules</i> , <b>1996</b> , 29, 2850-2856	5.5	28
18	Phase Behavior and Morphological Characteristics of Compositionally Symmetric Diblock Copolymer Blends. <i>Macromolecules</i> , <b>1996</b> , 29, 8862-8870	5.5	53
17	Phase Behavior of Ordered Diblock Copolymer Blends: Effect of Compositional Heterogeneity. <i>Macromolecules</i> , <b>1996</b> , 29, 4494-4507	5.5	122
16	Morphological Characteristics of SEBS Thermoplastic Elastomer Gels. <i>Macromolecules</i> , <b>1996</b> , 29, 5760-5763	5.5	67
15	Controlled black liquor viscosity reduction through salting-in. <i>AIChE Journal</i> , <b>1996</b> , 42, 2319-2326	3.6	8
14	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
13	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
12	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
11	Evidence of Hierarchical Order in an Amphiphilic Graft Terpolymer Gel. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 12069-12071		21
10	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
9	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
8	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
7	Linear multiblock copolymer/homopolymer blends of constant composition. 1. Low-molecular-weight homopolymers. <i>Macromolecules</i> , <b>1993</b> , 26, 5118-5124	5.5	33
6	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
5	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
4	Nanostructured Organogels via Molecular Self-Assembly791-834		1
3	Phase Behaviour of Block Copolymer Blends159-212		20

2	Determination of Bulk and Solution Morphologies by Transmission Electron Microscopy1649-1685	2
1	Determination of Bulk and Solution Morphologies by Transmission Electron Microscopy1-42	1