Richard J Spontak

List of Publications by Year
in descending order

195 papers	7,002 citations	57758 44 h-index	76900 74 g-index
205 all docs	205 docs citations	205 times ranked	6784 citing authors

#	Article	IF	Citations
1	Dielectric elastomers as next-generation polymeric actuators. Soft Matter, 2007, 3, 1116.	2.7	360
2	Thermoplastic elastomers: fundamentals and applications. Current Opinion in Colloid and Interface Science, 2000, 5, 333-340.	7.4	290
3	Correlated electrical conductivity and mechanical property analysis of high-density polyethylene filled with graphite and carbon fiber. Polymer, 2002, 43, 2279-2286.	3.8	209
4	Direct Measurement of Interfacial Curvature Distributions in a Bicontinuous Block Copolymer Morphology. Physical Review Letters, 2000, 84, 518-521.	7.8	190
5	Atomic Layer Deposition on Electrospun Polymer Fibers as a Direct Route to Al2O3Microtubes with Precise Wall Thickness Control. Nano Letters, 2007, 7, 719-722.	9.1	179
6	Transmission Electron Microtomography and Polymer Nanostructures. Macromolecules, 2010, 43, 1675-1688.	4.8	170
7	Solvent-regulated ordering in block copolymers. Current Opinion in Colloid and Interface Science, 1999, 4, 130-139.	7.4	160
8	Bottlebrush Elastomers: A New Platform for Freestanding Electroactuation. Advanced Materials, 2017, 29, 1604209.	21.0	150
9	Self-organization and polyolefin nucleation efficacy of 1,3:2,4-di-p-methylbenzylidene sorbitol. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 2617-2628.	2.1	147
10	Phase Behavior of Ordered Diblock Copolymer Blends:Â Effect of Compositional Heterogeneity. Macromolecules, 1996, 29, 4494-4507.	4.8	144
11	Volume-exclusion effects in polyethylene blends filled with carbon black, graphite, or carbon fiber. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 1013-1025.	2.1	129
12	Redox-Active Organometallic Vesicles: Aqueous Self-Assembly of a Diblock Copolymer with a Hydrophilic Polyferrocenylsilane Polyelectrolyte Block. Angewandte Chemie - International Edition, 2004, 43, 1260-1264.	13.8	118
13	Transmission electron microtomography in polymer research. Polymer, 2009, 50, 1067-1087.	3.8	116
14	Microstructural Analysis of a Cubic Bicontinuous Morphology in a Neat SIS Triblock Copolymer. Macromolecules, 1997, 30, 3938-3941.	4.8	98
15	Dependence of the OBDD morphology on diblock copolymer molecular weight in copolymer/homopolymer blends. Macromolecules, 1993, 26, 956-962.	4.8	96
16	Membranes for Hydrogen Purification: An Important Step toward a Hydrogen-Based Economy. MRS Bulletin, 2006, 31, 735-744.	3.5	94
17	Thermoplastic elastomer gels. I. Effects of composition and processing on morphology and gel behavior. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 2379-2391.	2.1	85
18	Triblock Copolymer Organogels as High-Performance Dielectric Elastomers. Macromolecules, 2008, 41, 6100-6109.	4.8	85

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19	Ultrastretchable, cyclable and recyclable 1- and 2-dimensional conductors based on physically cross-linked thermoplastic elastomer gels. Soft Matter, 2013, 9, 7695.	2.7	84
20	Surface-Constrained Foaming of Polymer Thin Films with Supercritical Carbon Dioxide. Macromolecules, 2004, 37, 9872-9879.	4.8	83
21	Selectivity- and Size-Induced Segregation of Molecular and Nanoscale Species in Microphase-Ordered Triblock Copolymers. Nano Letters, 2006, 6, 2115-2120.	9.1	83
22	Electromechanical Response of Nanostructured Polymer Systems with no Mechanical Pre-Strain. Macromolecular Rapid Communications, 2007, 28, 1142-1147.	3.9	81
23	An integrated materials approach to ultrapermeable and ultraselective CO ₂ polymer membranes. Science, 2022, 376, 90-94.	12.6	81
24	Structure and Catalytic Properties of Pt-Modified Hyper-Cross-Linked Polystyrene Exhibiting Hierarchical Porosity. Journal of Physical Chemistry B, 2004, 108, 18234-18242.	2.6	77
25	Morphological Characteristics of SEBS Thermoplastic Elastomer Gels. Macromolecules, 1996, 29, 5760-5762.	4.8	75
26	Perfectly-alternating linear (AB)n multiblock copolymers: Effect of molecular design on morphology and properties. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 947-955.	2.1	74
27	Polymer Nanocomposites Containing Carbon Nanofibers as Soft Printable Sensors Exhibiting Strainâ€Reversible Piezoresistivity. Advanced Functional Materials, 2013, 23, 5536-5542.	14.9	73
28	Mixed Protein Blends Composed of Gelatin andBombyx moriSilk Fibroin:Â Effects of Solvent-Induced Crystallization and Composition. Biomacromolecules, 2006, 7, 728-735.	5.4	70
29	Enhanced Electroactive Response of Unidirectional Elastomeric Composites with Highâ€Dielectricâ€Constant Fibers. Advanced Materials, 2014, 26, 2949-2953.	21.0	69
30	Morphology and gas barrier properties of thin SiO_xcoatings on polycarbonate: Correlations with plasma-enhanced chemical vapor deposition conditions. Journal of Materials Research, 2000, 15, 704-717.	2.6	66
31	Phase Behavior and Morphological Characteristics of Compositionally Symmetric Diblock Copolymer Blends. Macromolecules, 1996, 29, 8862-8870.	4.8	59
32	Nafion/IL hybrid membranes with tuned nanostructure for enhanced CO₂ separation: effects of ionic liquid and water vapor. Green Chemistry, 2018, 20, 1391-1404.	9.0	59
33	Photodynamic Polymers as Comprehensive Anti-Infective Materials: Staying Ahead of a Growing Global Threat. ACS Applied Materials & Interfaces, 2018, 10, 25955-25959.	8.0	59
34	Tunable CO transport through mixed polyether membranes. Journal of Membrane Science, 2005, 251, 51-57.	8.2	57
35	Prestrainâ€Free Dielectric Elastomers Based on Acrylic Thermoplastic Elastomer Gels: A Morphological and (Electro)Mechanical Property Study. Advanced Functional Materials, 2012, 22, 2100-2113.	14.9	55
36	Phase Behavior of Triblock Copolymers Varying in Molecular Asymmetry. Physical Review Letters, 2005, 95, 168306.	7.8	53

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37	Generation of functional PET microfibers through surface-initiated polymerization. Journal of Materials Chemistry, 2012, 22, 5855.	6.7	53
38	Inherently self-sterilizing charged multiblock polymers that kill drug-resistant microbes in minutes. Materials Horizons, 2019, 6, 2056-2062.	12.2	50
39	Cryogenic Mechanical Alloying of Poly(methyl methacrylate) with Polyisoprene and Poly(ethylene-alt-propylene). Macromolecules, 2000, 33, 2595-2604.	4.8	49
40	3D Nanometer-Scale Study of Coexisting Bicontinuous Morphologies in a Block Copolymer/Homopolymer Blend. Macromolecular Rapid Communications, 2006, 27, 1424-1429.	3.9	47
41	Advances in self-ordering macromolecules and nanostructure design. Current Opinion in Colloid and Interface Science, 1999, 4, 140-146.	7.4	46
42	Microphase-Separated Block Copolymers Comprising Low Surface Energy Fluorinated Blocks and Hydrophilic Blocks:Â Synthesis and Characterization. Macromolecules, 2002, 35, 3697-3707.	4.8	46
43	The molecular structure and intermolecular interactions of 1,3:2,4-dibenzylidene-D-sorbitol. Molecular Physics, 2003, 101, 3017-3027.	1.7	45
44	Exceptional versatility of solvated block copolymer/ionomer networks as electroactive polymers. Soft Matter, 2011, 7, 1651.	2.7	45
45	Morphological Investigation of Midblockâ€Sulfonated Block Ionomers Prepared from Solvents Differing in Polarity. Macromolecular Rapid Communications, 2015, 36, 432-438.	3.9	45
46	Gas-Transport and Thermal Properties of a Microphase-Ordered Poly(styrene-b-ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (o 37, 2829-2838.	4.8	44
47	Enhanced Biomimetic Performance of Ionic Polymerâ€“Metal Composite Actuators Prepared with Nanostructured Block Ionomers. Macromolecular Rapid Communications, 2012, 33, 61-68.	3.9	44
48	Microfibres and macroscopic films from the coordination-driven hierarchical self-assembly of cylindrical micelles. Nature Communications, 2016, 7, 12371.	12.8	43
49	Fieldâ€Driven Surface Segregation of Biofunctional Species on Electrospun PMMA/PEO Microfibers. Macromolecular Rapid Communications, 2008, 29, 1455-1460.	3.9	41
50	Nanoparticle-regulated phase behavior of ordered block copolymers. Soft Matter, 2008, 4, 1609.	2.7	40
51	Mechanical and actuation behavior of electroactive nanostructured polymers. Sensors and Actuators A: Physical, 2009, 151, 46-52.	4.1	40
52	Self-Consistent Field Theory of Ordered Block Copolymer Blends. 1. (AB).alpha./(AB).beta. Blends. Macromolecules, 1994, 27, 6363-6370.	4.8	39
53	Addition of a Block Copolymer to Polymer Blends Produced by Cryogenic Mechanical Alloying. Macromolecules, 2000, 33, 1163-1172.	4.8	38
54	Molecular, Nanostructural and Mechanical Characteristics of Lamellar Triblock Copolymer Blends: Effects of Molecular Weight and Constraint. Macromolecular Rapid Communications, 2001, 22, 281-296.	3.9	38

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55	Physical organogels composed of amphiphilic block copolymers and 1,3:2,4-dibenzylidene-D-sorbitol. Journal of Colloid and Interface Science, 2003, 267, 509-518.	9.4	38
56	Facile and solvent-free fabrication of PEG-based membranes with interpenetrating networks for CO2 separation. Journal of Membrane Science, 2019, 570-571, 455-463.	8.2	38
57	Linear multiblock copolymer/homopolymer blends of constant composition. 1. Low-molecular-weight homopolymers. Macromolecules, 1993, 26, 5118-5124.	4.8	36
58	Swelling and Free-Volume Characteristics of TEMPO-Oxidized Cellulose Nanofibril Films. Biomacromolecules, 2018, 19, 1016-1025.	5.4	36
59	Incorporation of an ionic liquid into a midblock-sulfonated multiblock polymer for CO2 capture. Journal of Membrane Science, 2019, 588, 117193.	8.2	35
60	Humidity-responsive molecular gate-opening mechanism for gas separation in ultraselective nanocellulose/IL hybrid membranes. Green Chemistry, 2020, 22, 3546-3557.	9.0	35
61	Enhanced Miscibility of Low-Molecular-Weight Polystyrene/Polyisoprene Blends in Supercritical CO2. Journal of Physical Chemistry B, 1999, 103, 5472-5476.	2.6	34
62	Morphological, mechanical and gas-transport characteristics of crosslinked poly(propylene glycol): homopolymers, nanocomposites and blends. Polymer, 2004, 45, 5941-5950.	3.8	34
63	A Solvent-Vapor Approach toward the Control of Block Ionomer Morphologies. Macromolecules, 2016, 49, 3126-3137.	4.8	34
64	Architecture-Induced Phase Immiscibility in a Diblock/Multiblock Copolymer Blend. Macromolecules, 1996, 29, 2850-2856.	4.8	33
65	Dynamic rheological behavior of DBS-induced poly(propylene glycol) physical gels. Rheologica Acta, 2001, 40, 30-38.	2.4	33
66	Interfacial and topological measurements of bicontinuous polymer morphologies. Physical Review E, 2001, 64, 010803.	2.1	33
67	Dissipative particle dynamics of triblock copolymer melts: A midblock conformational study at moderate segregation. Journal of Chemical Physics, 2014, 141, 244911.	3.0	33
68	Phase-Change Thermoplastic Elastomer Blends for Tunable Shape Memory by Physical Design. Industrial & Engineering Chemistry Research, 2016, 55, 12590-12597.	3.7	32
69	Metal Nanoparticles Grown in the Nanostructured Matrix of Poly(octadecylsiloxane). Langmuir, 2000, 16, 8221-8225.	3.5	31
70	Responsive PET Nano/Microfibers via Surface-Initiated Polymerization. ACS Applied Materials & Interfaces, 2012, 4, 59-64.	8.0	31
71	Anomalous Phase Inversion in Polymer Blends Prepared by Cryogenic Mechanical Alloying. Macromolecules, 2001, 34, 1536-1538.	4.8	30
72	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.	4.8	30

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73	Mesoblends of Polyether Block Copolymers with Poly(ethylene glycol). Macromolecules, 2004, 37, 1394-1402.	4.8	29
74	Interfacial Modification as a Route to Novel Bilayered Morphologies in Binary Block Copolymer/Homopolymer Blends. Macromolecules, 1998, 31, 4975-4985.	4.8	28
75	Gas Permeation Properties of Poly(1,1â€˜-dihydroperfluorooctyl acrylate), Poly(1,1â€˜-dihydroperfluorooctyl methacrylate), and Poly(styrene)-b-poly(1,1â€˜-dihydroperfluorooctyl) Tj ETQq1 1 0.784314 rgBT /Ov	4.8	27
76	Stability of Organically Modified Montmorillonites and Their Polystyrene Nanocomposites After Prolonged Thermal Treatment. Chemistry of Materials, 2007, 19, 2757-2767.	6.7	27
77	Communication: Molecular-level insights into asymmetric triblock copolymers: Network and phase development. Journal of Chemical Physics, 2014, 141, 121103.	3.0	27
78	Synthesis of Metal-Loaded Poly(aminohexyl)(aminopropyl)silsesquioxane Colloids and Their Self-Organization into Dendrites. Nano Letters, 2002, 2, 873-876.	9.1	26
79	Formation of Dispersed Nanostructures from Poly(ferrocenyldimethylsilane-b-dimethylsiloxane) Nanotubes upon Exposure to Supercritical Carbon Dioxide. Langmuir, 2004, 20, 9304-9314.	3.5	26
80	Effects of Pressure and Nanoparticle Functionality on CO2-Selective Nanocomposites Derived from Crosslinked Poly(ethylene glycol). Macromolecular Chemistry and Physics, 2004, 205, 2409-2419.	2.2	25
81	Solventâ€Templated Block Ionomers for Baseâ€•and Acidâ€Gas Separations: Effect of Humidity on Ammonia and Carbon Dioxide Permeation. Advanced Materials Interfaces, 2017, 4, 1700854.	3.7	25
82	Toughening Poly(lactic acid) with Thermoplastic Elastomers Modified by Thiolâ€“ene Click Chemistry. ACS Sustainable Chemistry and Engineering, 2019, 7, 10830-10839.	6.7	25
83	Modification of Melt-Spun Isotactic Polypropylene and Poly(lactic acid) Bicomponent Filaments with a Premade Block Copolymer. Macromolecules, 2012, 45, 913-925.	4.8	24
84	Extended Chemical CrossLinking of a Thermoplastic Polyimide: Macroscopic and Microscopic Property Development. Macromolecular Rapid Communications, 2008, 29, 1461-1466.	3.9	23
85	Evidence of Hierarchical Order in an Amphiphilic Graft Terpolymer Gel. The Journal of Physical Chemistry, 1995, 99, 12069-12071.	2.9	22
86	Phase Behavior of Poly(methyl methacrylate)/Poly(vinylidene fluoride) Blends in the Presence of High-Pressure Carbon Dioxide. Macromolecular Chemistry and Physics, 2003, 204, 2064-2077.	2.2	22
87	Phase Behaviour of Block Copolymer Blends. , 0, , 159-212.		22
88	Thermoplastic Elastomer Systems Containing Carbon Nanofibers as Soft Piezoresistive Sensors. ACS Omega, 2018, 3, 12648-12657.	3.5	22
89	Microphase-Separated Morphologies and Molecular Network Topologies in Multiblock Copolymer Gels. Macromolecules, 2018, 51, 5173-5181.	4.8	22
90	Rapid and Repetitive Inactivation of SARSâ€CoVâ€2 and Human Coronavirus on Selfâ€Disinfecting Anionic Polymers. Advanced Science, 2021, 8, e2003503.	11.2	22

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91	Competitive hydrogen-bonding in polymer solutions with mixed solvents. Soft Matter, 2009, 5, 304-307.	2.7	20
92	Highly Flexible Aqueous Photovoltaic Elastomer Gels Derived from Sulfonated Block Ionomers. Advanced Energy Materials, 2015, 5, 1401941.	19.5	20
93	Hierarchical Self-Assembly of Toroidal Micelles into Multidimensional Nanoporous Superstructures. ACS Macro Letters, 2018, 7, 1040-1045.	4.8	20
94	Tapered Multiblock Star Copolymers: Synthesis, Selective Hydrogenation, and Properties. Macromolecules, 2020, 53, 4422-4434.	4.8	20
95	Photodynamic Coatings on Polymer Microfibers for Pathogen Inactivation: Effects of Application Method and Composition. ACS Applied Materials & Interfaces, 2021, 13, 155-163.	8.0	20
96	Mesophase characteristics of cellulose nanocrystal films prepared from electrolyte suspensions. Journal of Colloid and Interface Science, 2021, 599, 207-218.	9.4	20
97	Physical Microfabrication of Shapeâ€Memory Polymer Systems via Bicomponent Fiber Spinning. Macromolecular Rapid Communications, 2016, 37, 1837-1843.	3.9	19
98	Highly CO2-permeable membranes derived from a midblock-sulfonated multiblock polymer after submersion in water. NPG Asia Materials, 2019, 11, .	7.9	19
99	Effect of chain length and surface density on looped polymers grafted to an impenetrable surface. Journal of Chemical Physics, 1995, 103, 5137-5143.	3.0	18
100	Morphological characteristics of the lyotropic and gel phases in the cellulose/NH3/NH4SCN system. Journal of Polymer Science, Part B: Polymer Physics, 1996, 34, 2049-2058.	2.1	18
101	Equilibrium conformations and dynamic relaxation of doubleâ€tethered chain molecules at an impenetrable interface. Journal of Chemical Physics, 1996, 105, 7712-7722.	3.0	18
102	Thermodynamics of Poly(dimethylsiloxane)/Poly(ethylmethylsiloxane) (PDMS/PEMS) Blends in the Presence of High-Pressure CO2. Macromolecules, 2004, 37, 2588-2595.	4.8	18
103	Crystallizationâ€Directed Anisotropic Electroactuation in Selectively Solvated Olefinic Thermoplastic Elastomers: A Thermal and (Electro)Mechanical Property Study. Advanced Functional Materials, 2018, 28, 1803467.	14.9	18
104	Property and Morphology Development in Nanocomposite Thermoplastic Elastomer Gels. Langmuir, 2005, 21, 3106-3115.	3.5	17
105	Bicomponent Block Copolymers Derived from One or More Random Copolymers as an Alternative Route to Controllable Phase Behavior. Macromolecular Rapid Communications, 2017, 38, 1700207.	3.9	17
106	Shear-Dependent Structures of Flocculated Micro/Nanofibrillated Cellulose (MNFC) in Aqueous Suspensions. Biomacromolecules, 2020, 21, 3561-3570.	5.4	17
107	Cosolvent-regulated timeâ€“composition rheological equivalence in block copolymer solutions. Soft Matter, 2010, 6, 4331.	2.7	16
108	Toward the Development of a Versatile Functionalized Silicone Coating. ACS Applied Materials & Interfaces, 2014, 6, 22544-22552.	8.0	16

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109	Adhesion and friction in polymer films on solid substrates: conformal sites analysis and corresponding surface measurements. Soft Matter, 2017, 13, 3492-3505.	2.7	16
110	Effect of polyelectrolyte on the barrier efficacy of layer-by-layer nanoclay coatings. Journal of Membrane Science, 2017, 526, 172-180.	8.2	16
111	Influence of fiber characteristics on directed electroactuation of anisotropic dielectric electroactive polymers with tunability. Composites Science and Technology, 2018, 154, 187-193.	7.8	16
112	Modeling Polymer Glass Transition Properties from Empirical Monomer Data with the SAFT-Î³ Mie Force Field. Macromolecules, 2018, 51, 9526-9537.	4.8	16
113	Platinum Nanoparticles Generated in Functionality-Enhanced Reaction Media Based on Polyoctadecylsiloxane with Long-Chain Functional Modifiers. Journal of Physical Chemistry B, 2004, 108, 6175-6185.	2.6	15
114	Magnetic field-induced alignment of nanoparticles in electrospun microfibers. RSC Advances, 2012, 2, 4603.	3.6	15
115	Complex Phase Behavior and Network Characteristics of Midblock-Solvated Triblock Copolymers as Physically Cross-Linked Soft Materials. ACS Applied Materials & Interfaces, 2017, 9, 39940-39944.	8.0	15
116	Bicontinuous Morphologies in Homologous Multiblock Copolymers and Their Homopolymer Blends. Macromolecules, 1998, 31, 7546-7549.	4.8	14
117	Modification of a thermoplastic elastomer gel through the addition of an endblock-selective homopolymer. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 1863-1872.	2.1	14
118	Mesogel Networks via Selective Midblock Swelling of Lamellar Triblock Copolymers. Langmuir, 1999, 15, 7886-7889.	3.5	14
119	Phase Behavior of Poly(methyl methacrylate)/Poly(vinylidene fluoride) Blends with and without High-Pressure CO2. Macromolecules, 2003, 36, 4245-4249.	4.8	14
120	Block copolymer self-organization vs. interfacial modification in bilayered thin-film laminates. Soft Matter, 2011, 7, 3268.	2.7	14
121	Dual modes of self-assembly in superstrongly segregated bicomponent triblock copolymer melts. Physical Review E, 2015, 91, 010601.	2.1	14
122	Water-induced nanochannel networks in self-assembled block ionomers. Applied Physics Letters, 2016, 108, .	3.3	14
123	Conformational analysis of doubleâ€tethered chain molecules at an impenetrable interface: A Monte Carlo study. Journal of Chemical Physics, 1994, 101, 5179-5185.	3.0	13
124	Complex Phase Behavior of a Disordered â€œRandomâ€•Diblock Copolymer in the Presence of a Parent Homopolymer. Langmuir, 1997, 13, 2250-2258.	3.5	13
125	ABA Triblock Copolymer Gels Modified with an A-Compatible Semicrystalline Homopolymer. Langmuir, 2002, 18, 8266-8270.	3.5	13
126	Tunable Microcellular Morphologies from Poly(ferrocenylsilane) Ceramic Precursors Foamed in Supercritical CO2. Macromolecular Chemistry and Physics, 2004, 205, 2398-2408.	2.2	13

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127	Factors affecting timeâ€“composition equivalence in ternary block copolymer/cosolvent systems. Soft Matter, 2012, 8, 1334-1343.	2.7	13
128	Midblock sulfonation of a model long-chain poly(p-tert-butylstyrene-b-styrene-b-p-tert-butylstyrene) triblock copolymer. Journal of Materials Chemistry, 2012, 22, 25262.	6.7	13
129	Effect of Systematic Hydrogenation on the Phase Behavior and Nanostructural Dimensions of Block Copolymers. ACS Applied Materials & Interfaces, 2018, 10, 3186-3190.	8.0	13
130	Effect of Composition on the Molecular Dynamics of Biodegradable Isotactic Polypropylene/Thermoplastic Starch Blends. ACS Sustainable Chemistry and Engineering, 2019, 7, 16050-16059.	6.7	13
131	Toward Universal Photodynamic Coatings for Infection Control. Frontiers in Medicine, 2021, 8, 657837.	2.6	13
132	Block Copolymer/Homopolymer Mesoblends:Â Preparation and Characterization. Macromolecules, 2002, 35, 2268-2276.	4.8	12
133	Autophobicity-Driven Surface Segregation and Patterning of Coreâ^'Shell Microgel Nanoparticles. Nano Letters, 2008, 8, 3010-3016.	9.1	12
134	Thermorheological behavior of coexisting physical networks: combining SAFIN and SAMIN organogels. Soft Matter, 2012, 8, 12025.	2.7	12
135	Midblock-sulfonated triblock ionomers derived from a long-chain poly[styrene-b-butadiene-b-styrene] triblock copolymer. Journal of Materials Chemistry A, 2013, 1, 3430.	10.3	12
136	Hydrothermal Conditioning of Physical Hydrogels Prepared from a Midblockâ€Sulfonated Multiblock Copolymer. Macromolecular Rapid Communications, 2017, 38, 1600666.	3.9	12
137	Quasiâ€Solidâ€State Dyeâ€Sensitized Solar Cells Containing a Charged Thermoplastic Elastomeric Gel Electrolyte and Hydrophilic/phobic Photosensitizers. Solar Rrl, 2018, 2, 1700145.	5.8	12
138	Self-Assembly of a Midblock-Sulfonated Pentablock Copolymer in Mixed Organic Solvents: A Combined SAXS and SANS Analysis. Langmuir, 2019, 35, 1032-1039.	3.5	12
139	Quantitative Calorimetric Studies of the Chiral Nematic Mesophase in Aqueous Cellulose Nanocrystal Suspensions. Langmuir, 2020, 36, 10830-10837.	3.5	12
140	Morphological and Isothermal Diffusive Probe Analyses of Low-Molecular-Weight Diblock Copolymers. Macromolecules, 1998, 31, 2174-2184.	4.8	11
141	Multiscale Dewetting of Low-Molecular-Weight Block Copolymer Ultrathin Films. Macromolecular Rapid Communications, 2002, 23, 205-209.	3.9	11
142	Topological coarsening of low-molecular-weight block copolymer ultrathin films by environmental AFM. Polymer, 2002, 43, 6719-6726.	3.8	11
143	Dewetting of Star Nanogel/Homopolymer Blends from an Immiscible Homopolymer Substrate. Macromolecules, 2004, 37, 7857-7860.	4.8	11
144	In situ Growth of Pd Nanoparticles in Crosslinked Polymer Matrices. Macromolecular Rapid Communications, 2008, 29, 1926-1931.	3.9	11

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145	Electroactuation of solvated triblock copolymer dielectric elastomers: Decoupling the roles of mechanical prestrain and specimen thickness. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1569-1582.	2.1	11
146	Spectroscopic and Rheological Cross-Analysis of Polyester Polyol Cure Behavior: Role of Polyester Secondary Hydroxyl Content. ACS Omega, 2019, 4, 932-939.	3.5	11
147	Solid-State Blending of Polymers by Cryogenic Mechanical Alloying. Materials Research Society Symposia Proceedings, 2000, 629, 1.	0.1	10
148	Film-Stabilizing Attributes of Polymeric Coreâ€“Shell Nanoparticles. ACS Nano, 2015, 9, 7940-7949.	14.6	10
149	Communication: Molecular-level description of constrained chain topologies in multiblock copolymer gel networks. Journal of Chemical Physics, 2018, 148, 231101.	3.0	10
150	Molecular Simulations of Thermoset Polymers Implementing Theoretical Kinetics with Top-Down Coarse-Grained Models. Macromolecules, 2020, 53, 2310-2322.	4.8	10
151	Form-stable phase-change elastomer gels derived from thermoplastic elastomer copolyesters swollen with fatty acids. Thermochimica Acta, 2020, 686, 178566.	2.7	10
152	Controlled black liquor viscosity reduction through salting-in. AICHE Journal, 1996, 42, 2319-2326.	3.6	9
153	Multipurpose Polymeric Coating for Functionalizing Inert Polymer Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 5694-5705.	8.0	9
154	Polymer blend compatibilization by the addition of block copolymers. , 2020, , 57-102.		9
155	Optimization of the Rubber Formulation for Footwear Applications from the Response Surface Method. Polymers, 2020, 12, 2032.	4.5	9
156	Olefinic Thermoplastic Elastomer Gels: Combining Polymer Crystallization and Microphase Separation in a Selective Solvent. ACS Macro Letters, 2016, 5, 1273-1277.	4.8	8
157	DESIGNING DIELECTRIC ELASTOMERS OVER MULTIPLE LENGTH SCALES FOR 21ST CENTURY SOFT MATERIALS TECHNOLOGIES. Rubber Chemistry and Technology, 2017, 90, 207-224.	1.2	8
158	Cellulose nanofibers and the film-formation dilemma: Drying temperature and tunable optical, mechanical and wetting properties of nanocomposite films composed of waterborne sulfopolyesters. Journal of Colloid and Interface Science, 2021, 598, 369-378.	9.4	8
159	Selectively solvated triblock copolymer networks under biaxial strain. Applied Physics Letters, 2011, 99, 101908.	3.3	7
160	Solution self-assembly of ABC triblock terpolymers with a central crystallizable poly(ferrocenyldimethylsilane) core-forming segment. Polymer Chemistry, 2019, 10, 2559-2569.	3.9	7
161	(Electro)mechanical behavior of selectively solvated diblock/triblock copolymer blends. Applied Physics Letters, 2011, 99, .	3.3	6
162	Nanoscale considerations responsible for diverse macroscopic phase behavior in monosubstituted isobutyl-POSS/poly(ethylene oxide) blends. Soft Matter, 2017, 13, 8672-8677.	2.7	6

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163	Tuning the performance of aqueous photovoltaic elastomer gels by solvent polarity and nanostructure development. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 85-95.	2.1	6
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