# Richard J Spontak

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Advances in stimuli-responsive and functional thermoplastic elastomers. , 2022, , 353-404. | | 3 |
| 2 | An integrated materials approach to ultrapermeable and ultraselective CO <sub>2</sub> polymer membranes. Science, 2022, 376, 90-94. | 12.6 | 81 |
| 3 | 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 |
| 4 | Rapid and Repetitive Inactivation of SARSâ€CoVâ€2 and Human Coronavirus on Selfâ€Disinfecting Anionic Polymers. Advanced Science, 2021, 8, e2003503. | 11.2 | 22 |
| 5 | Toward Universal Photodynamic Coatings for Infection Control. Frontiers in Medicine, 2021, 8, 657837. | 2.6 | 13 |
| 6 | Morphological Studies of Solutionâ€Crystallized Thermoplastic Elastomers with Polyethylene Endblocks and a Randomâ€Copolymer Midblock. Macromolecular Rapid Communications, 2021, 42, e2100442. | 3.9 | 3 |
| 7 | Anion-Specific Water Interactions with Nanochitin: Donnan and Osmotic Pressure Effects as Revealed by Quartz Microgravimetry. Langmuir, 2021, 37, 11242-11250. | 3.5 | 6 |
| 8 | 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 |
| 9 | Mesophase characteristics of cellulose nanocrystal films prepared from electrolyte suspensions. Journal of Colloid and Interface Science, 2021, 599, 207-218. | 9.4 | 20 |
| 10 | Polymer blend compatibilization by the addition of block copolymers. , 2020, , 57-102. | | 9 |
| 11 | UV-Curable Polymer Nanocomposites Based on Poly(dimethylsiloxane) and Zirconia Nanoparticles: Reactive versus Passive Nanofillers. ACS Applied Polymer Materials, 2020, 2, 394-403. | 4.4 | 5 |
| 12 | Optimization of the Rubber Formulation for Footwear Applications from the Response Surface Method. Polymers, 2020, 12, 2032. | 4.5 | 9 |
| 13 | Shear-Dependent Structures of Flocculated Micro/Nanofibrillated Cellulose (MNFC) in Aqueous Suspensions. Biomacromolecules, 2020, 21, 3561-3570. | 5.4 | 17 |
| 14 | Network topology and stability of homologous multiblock copolymer physical gels. Journal of Chemical Physics, 2020, 153, 124904. | 3.0 | 5 |
| 15 | Quantitative Calorimetric Studies of the Chiral Nematic Mesophase in Aqueous Cellulose Nanocrystal Suspensions. Langmuir, 2020, 36, 10830-10837. | 3.5 | 12 |
| 16 | Tapered Multiblock Star Copolymers: Synthesis, Selective Hydrogenation, and Properties. Macromolecules, 2020, 53, 4422-4434. | 4.8 | 20 |
| 17 | Molecular Simulations of Thermoset Polymers Implementing Theoretical Kinetics with Top-Down Coarse-Grained Models. Macromolecules, 2020, 53, 2310-2322. | 4.8 | 10 |
| 18 | Gas-separation and physical properties of ABA triblock copolymers synthesized from polyimide and hydrophilic adamantane derivatives. Polymer, 2020, 202, 122642. | 3.8 | 4 |

| # | Article | IF | Citations |
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| 19 | Ionic complexation of endblock-sulfonated thermoplastic elastomers and their physical gels for improved thermomechanical performance. Journal of Colloid and Interface Science, 2020, 567, 419-428. | 9.4 | 3 |
| 20 | Form-stable phase-change elastomer gels derived from thermoplastic elastomer copolyesters swollen with fatty acids. Thermochimica Acta, 2020, 686, 178566. | 2.7 | 10 |
| 21 | Humidity-responsive molecular gate-opening mechanism for gas separation in ultraselective nanocellulose/IL hybrid membranes. Green Chemistry, 2020, 22, 3546-3557. | 9.0 | 35 |
| 22 | Dielectric and Resistive Heating of Polymeric Media: Toward Remote Thermal Activation of Stimuliâ€Responsive Soft Materials. Macromolecular Rapid Communications, 2019, 40, e1800669. | 3.9 | 0 |
| 23 | Inherently self-sterilizing charged multiblock polymers that kill drug-resistant microbes in minutes. Materials Horizons, 2019, 6, 2056-2062. | 12.2 | 50 |
| 24 | Thermomechanical and Free-Volume Properties of Polyesterâ€“Polyol Films for Coatings Applications: Role of Diol Composition. ACS Applied Polymer Materials, 2019, 1, 2398-2406. | 4.4 | 2 |
| 25 | 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 |
| 26 | Highly CO2-permeable membranes derived from a midblock-sulfonated multiblock polymer after submersion in water. NPG Asia Materials, 2019, 11, . | 7.9 | 19 |
| 27 | 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 |
| 28 | Incorporation of an ionic liquid into a midblock-sulfonated multiblock polymer for CO2 capture. Journal of Membrane Science, 2019, 588, 117193. | 8.2 | 35 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Nafion/IL hybrid membranes with tuned nanostructure for enhanced CO<sub>2</sub> separation: effects of ionic liquid and water vapor. Green Chemistry, 2018, 20, 1391-1404. | 9.0 | 59 |
| 34 | Quasiâ€Solidâ€State Dyeâ€Sensitized Solar Cells Containing a Charged Thermoplastic Elastomeric Gel Electrolyte and Hydrophilic/phobic Photosensitizers. Solar Rrl, 2018, 2, 1770155. | 5.8 | 2 |
| 35 | 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 |
| 36 | Ordering and Grain Growth in Charged Block Copolymer Bulk Films: A Comparison of Solventâ€Related Processes. Advanced Materials Interfaces, 2018, 5, 1701667. | 3.7 | 3 |

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| 37 | 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 |
| 38 | Swelling and Free-Volume Characteristics of TEMPO-Oxidized Cellulose Nanofibril Films. Biomacromolecules, 2018, 19, 1016-1025. | 5.4 | 36 |
| 39 | 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 |
| 40 | Modeling Polymer Glass Transition Properties from Empirical Monomer Data with the SAFT-Î³ Mie Force Field. Macromolecules, 2018, 51, 9526-9537. | 4.8 | 16 |
| 41 | Thermoplastic Elastomer Systems Containing Carbon Nanofibers as Soft Piezoresistive Sensors. ACS Omega, 2018, 3, 12648-12657. | 3.5 | 22 |
| 42 | Incorporation of Metallic Species into Midblockâ€Sulfonated Block Ionomers. Macromolecular Rapid Communications, 2018, 39, 1800427. | 3.9 | 3 |
| 43 | Communication: Molecular-level description of constrained chain topologies in multiblock copolymer gel networks. Journal of Chemical Physics, 2018, 148, 231101. | 3.0 | 10 |
| 44 | 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 |
| 45 | 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 |
| 46 | Microphase-Separated Morphologies and Molecular Network Topologies in Multiblock Copolymer Gels. Macromolecules, 2018, 51, 5173-5181. | 4.8 | 22 |
| 47 | Preparation of cellulose nanofibrils for imaging purposes: comparison of liquid cryogens for rapid vitrification. Cellulose, 2018, 25, 4269-4274. | 4.9 | 1 |
| 48 | Hierarchical Self-Assembly of Toroidal Micelles into Multidimensional Nanoporous Superstructures. ACS Macro Letters, 2018, 7, 1040-1045. | 4.8 | 20 |
| 49 | Molecular and morphological characterization of midblockâ€sulfonated styrenic triblock copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 490-497. | 2.1 | 4 |
| 50 | Hydrothermal Conditioning of Physical Hydrogels Prepared from a Midblockâ€Sulfonated Multiblock Copolymer. Macromolecular Rapid Communications, 2017, 38, 1600666. | 3.9 | 12 |
| 51 | 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 |
| 52 | Effect of polyelectrolyte on the barrier efficacy of layer-by-layer nanoclay coatings. Journal of Membrane Science, 2017, 526, 172-180. | 8.2 | 16 |
| 53 | Molecular Dynamics Study of Polystyrene-b-poly(ethylene oxide) Asymmetric Diblock Copolymer Systems. Langmuir, 2017, 33, 8856-8868. | 3.5 | 5 |
| 54 | 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 |

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| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | Bottlebrush Elastomers: A New Platform for Freestanding Electroactuation. Advanced Materials, 2017, 29, 1604209. | 21.0 | 150 |
| 60 | Nanotechnological strategies yielding high-barrier plastic food packaging. , 2017, , 1-43. | | 3 |
| 61 | DESIGNING DIELECTRIC ELASTOMERS OVER MULTIPLE LENGTH SCALES FOR 21ST CENTURY SOFT MATERIALS TECHNOLOGIES. Rubber Chemistry and Technology, 2017, 90, 207-224. | 1.2 | 8 |
| 62 | Water-induced nanochannel networks in self-assembled block ionomers. Applied Physics Letters, 2016, 108, . | 3.3 | 14 |
| 63 | A Solvent-Vapor Approach toward the Control of Block Ionomer Morphologies. Macromolecules, 2016, 49, 3126-3137. | 4.8 | 34 |
| 64 | Dielectric Elastomers (DEs) as EAPs: Materials. , 2016, , 687-714. | | 1 |
| 65 | Physical Microfabrication of Shapeâ€Memory Polymer Systems via Bicomponent Fiber Spinning. Macromolecular Rapid Communications, 2016, 37, 1837-1843. | 3.9 | 19 |
| 66 | Phase-Change Thermoplastic Elastomer Blends for Tunable Shape Memory by Physical Design. Industrial & Engineering Chemistry Research, 2016, 55, 12590-12597. | 3.7 | 32 |
| 67 | Microfibres and macroscopic films from the coordination-driven hierarchical self-assembly of cylindrical micelles. Nature Communications, 2016, 7, 12371. | 12.8 | 43 |
| 68 | Olefinic Thermoplastic Elastomer Gels: Combining Polymer Crystallization and Microphase Separation in a Selective Solvent. ACS Macro Letters, 2016, 5, 1273-1277. | 4.8 | 8 |
| 69 | Dielectric Elastomers (DEs) as EAPs: Materials. , 2016, , 1-28. | | 0 |
| 70 | Multipurpose Polymeric Coating for Functionalizing Inert Polymer Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 5694-5705. | 8.0 | 9 |
| 71 | Morphological Investigation of Midblockâ€Sulfonated Block Ionomers Prepared from Solvents Differing in Polarity. Macromolecular Rapid Communications, 2015, 36, 432-438. | 3.9 | 45 |
| 72 | Highly Flexible Aqueous Photovoltaic Elastomer Gels Derived from Sulfonated Block Ionomers. Advanced Energy Materials, 2015, 5, 1401941. | 19.5 | 20 |

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| 73 | Film-Stabilizing Attributes of Polymeric Coreâ€“Shell Nanoparticles. ACS Nano, 2015, 9, 7940-7949. | 14.6 | 10 |
| 74 | Dual modes of self-assembly in superstrongly segregated bicomponent triblock copolymer melts. Physical Review E, 2015, 91, 010601. | 2.1 | 14 |
| 75 | Communication: Molecular-level insights into asymmetric triblock copolymers: Network and phase development. Journal of Chemical Physics, 2014, 141, 121103. | 3.0 | 27 |
| 76 | Enhanced Electroactive Response of Unidirectional Elastomeric Composites with Highâ€Dielectricâ€Constant Fibers. Advanced Materials, 2014, 26, 2949-2953. | 21.0 | 69 |
| 77 | Toward the Development of a Versatile Functionalized Silicone Coating. ACS Applied Materials & Interfaces, 2014, 6, 22544-22552. | 8.0 | 16 |
| 78 | Dissipative particle dynamics of triblock copolymer melts: A midblock conformational study at moderate segregation. Journal of Chemical Physics, 2014, 141, 244911. | 3.0 | 33 |
| 79 | 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 |
| 80 | Nanoscale distribution and segregation of midblock-selective co-penetrants in ABA triblock copolymer lamellae. RSC Advances, 2013, 3, 22863. | 3.6 | 2 |
| 81 | Polymer Nanocomposites Containing Carbon Nanofibers as Soft Printable Sensors Exhibiting Strainâ€Reversible Piezoresistivity. Advanced Functional Materials, 2013, 23, 5536-5542. | 14.9 | 73 |
| 82 | 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 |
| 83 | Interfacial stabilization of bilayered nanolaminates by asymmetric block copolymers. Applied Physics Letters, 2012, 100, 101602. | 3.3 | 3 |
| 84 | Responsive PET Nano/Microfibers via Surface-Initiated Polymerization. ACS Applied Materials & Interfaces, 2012, 4, 59-64. | 8.0 | 31 |
| 85 | Thermorheological behavior of coexisting physical networks: combining SAFIN and SAMIN organogels. Soft Matter, 2012, 8, 12025. | 2.7 | 12 |
| 86 | Generation of functional PET microfibers through surface-initiated polymerization. Journal of Materials Chemistry, 2012, 22, 5855. | 6.7 | 53 |
| 87 | Factors affecting timeâ€“composition equivalence in ternary block copolymer/cosolvent systems. Soft Matter, 2012, 8, 1334-1343. | 2.7 | 13 |
| 88 | 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 |
| 89 | 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 |
| 90 | 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 |

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| 91 | Magnetic field-induced alignment of nanoparticles in electrospun microfibers. RSC Advances, 2012, 2, 4603. | 3.6 | 15 |
| 92 | 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 |
| 93 | Enhanced Biomimetic Performance of Ionic Polymerâ€“Metal Composite Actuators Prepared with Nanostructured Block Ionomers. Macromolecular Rapid Communications, 2012, 33, 61-68. | 3.9 | 44 |
| 94 | Macromol. Rapid Commun. 1/2012. Macromolecular Rapid Communications, 2012, 33, 100-100. | 3.9 | 0 |
| 95 | Block copolymer self-organization vs. interfacial modification in bilayered thin-film laminates. Soft Matter, 2011, 7, 3268. | 2.7 | 14 |
| 96 | Exceptional versatility of solvated block copolymer/ionomer networks as electroactive polymers. Soft Matter, 2011, 7, 1651. | 2.7 | 45 |
| 97 | Selectively solvated triblock copolymer networks under biaxial strain. Applied Physics Letters, 2011, 99, 101908. | 3.3 | 7 |
| 98 | Deviation from time-composition equivalence in polymer solutions with selective cosolvents. AIP Advances, 2011, 1, . | 1.3 | 4 |
| 99 | 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 |
| 100 | (Electro)mechanical behavior of selectively solvated diblock/triblock copolymer blends. Applied Physics Letters, 2011, 99, . | 3.3 | 6 |
| 101 | Nanoparticle Network Formation in Nanostructured and Disordered Block Copolymer Matrices. Nanoscale Research Letters, 2010, 5, 1712-1718. | 5.7 | 2 |
| 102 | Transmission Electron Microtomography and Polymer Nanostructures. Macromolecules, 2010, 43, 1675-1688. | 4.8 | 170 |
| 103 | Cosolvent-regulated timeâ€“composition rheological equivalence in block copolymer solutions. Soft Matter, 2010, 6, 4331. | 2.7 | 16 |
| 104 | Transmission electron microtomography in polymer research. Polymer, 2009, 50, 1067-1087. | 3.8 | 116 |
| 105 | Mechanical and actuation behavior of electroactive nanostructured polymers. Sensors and Actuators A: Physical, 2009, 151, 46-52. | 4.1 | 40 |
| 106 | Competitive hydrogen-bonding in polymer solutions with mixed solvents. Soft Matter, 2009, 5, 304-307. | 2.7 | 20 |
| 107 | Fieldâ€Driven Surface Segregation of Biofunctional Species on Electrospun PMMA/PEO Microfibers. Macromolecular Rapid Communications, 2008, 29, 1455-1460. | 3.9 | 41 |
| 108 | Extended Chemical CrossLinking of a Thermoplastic Polyimide: Macroscopic and Microscopic Property Development. Macromolecular Rapid Communications, 2008, 29, 1461-1466. | 3.9 | 23 |

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| 109 | In situ Growth of Pd Nanoparticles in Crosslinked Polymer Matrices. Macromolecular Rapid Communications, 2008, 29, 1926-1931. | 3.9 | 11 |
| 110 | Nanoparticle-regulated phase behavior of ordered block copolymers. Soft Matter, 2008, 4, 1609. | 2.7 | 40 |
| 111 | Triblock Copolymer Organogels as High-Performance Dielectric Elastomers. Macromolecules, 2008, 41, 6100-6109. | 4.8 | 85 |
| 112 | Autophobicity-Driven Surface Segregation and Patterning of Coreâ^'Shell Microgel Nanoparticles. Nano Letters, 2008, 8, 3010-3016. | 9.1 | 12 |
| 113 | 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 |
| 114 | Stability of Organically Modified Montmorillonites and Their Polystyrene Nanocomposites After Prolonged Thermal Treatment. Chemistry of Materials, 2007, 19, 2757-2767. | 6.7 | 27 |
| 115 | Electromechanical Response of Nanostructured Polymer Systems with no Mechanical Pre-Strain. Macromolecular Rapid Communications, 2007, 28, 1142-1147. | 3.9 | 81 |
| 116 | Morphological development and rheological changes of phenoxy/SAN blends during inâ€šitu polymerization. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 2614-2619. | 2.1 | 1 |
| 117 | Dielectric elastomers as next-generation polymeric actuators. Soft Matter, 2007, 3, 1116. | 2.7 | 360 |
| 118 | Selectivity- and Size-Induced Segregation of Molecular and Nanoscale Species in Microphase-Ordered Triblock Copolymers. Nano Letters, 2006, 6, 2115-2120. | 9.1 | 83 |
| 119 | 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 |
| 120 | Membranes for Hydrogen Purification: An Important Step toward a Hydrogen-Based Economy. MRS Bulletin, 2006, 31, 735-744. | 3.5 | 94 |
| 121 | 3D Nanometer-Scale Study of Coexisting Bicontinuous Morphologies in a Block Copolymer/Homopolymer Blend. Macromolecular Rapid Communications, 2006, 27, 1424-1429. | 3.9 | 47 |
| 122 | Tunable CO transport through mixed polyether membranes. Journal of Membrane Science, 2005, 251, 51-57. | 8.2 | 57 |
| 123 | Phase Behavior of Triblock Copolymers Varying in Molecular Asymmetry. Physical Review Letters, 2005, 95, 168306. | 7.8 | 53 |
| 124 | Property and Morphology Development in Nanocomposite Thermoplastic Elastomer Gels. Langmuir, 2005, 21, 3106-3115. | 3.5 | 17 |
| 125 | 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 |
| 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 | 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 |
| 128 | Morphological, mechanical and gas-transport characteristics of crosslinked poly(propylene glycol): homopolymers, nanocomposites and blends. Polymer, 2004, 45, 5941-5950. | 3.8 | 34 |
| 129 | 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 |
| 130 | Formation of Dispersed Nanostructures from Poly(ferrocenyldimethylsilane-b-dimethylsiloxane) Nanotubes upon Exposure to Supercritical Carbon Dioxide. Langmuir, 2004, 20, 9304-9314. | 3.5 | 26 |
| 131 | Thermodynamics of Poly(dimethylsiloxane)/Poly(ethylmethylsiloxane) (PDMS/PEMS) Blends in the Presence of High-Pressure CO2. Macromolecules, 2004, 37, 2588-2595. | 4.8 | 18 |
| 132 | Mesoblends of Polyether Block Copolymers with Poly(ethylene glycol). Macromolecules, 2004, 37, 1394-1402. | 4.8 | 29 |
| 133 | Surface-Constrained Foaming of Polymer Thin Films with Supercritical Carbon Dioxide. Macromolecules, 2004, 37, 9872-9879. | 4.8 | 83 |
| 134 | Dewetting of Star Nanogel/Homopolymer Blends from an Immiscible Homopolymer Substrate. Macromolecules, 2004, 37, 7857-7860. | 4.8 | 11 |
| 135 | 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 |
| 136 | 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<br>37, 2829-2838. | 4.8 | 44 |
| 137 | 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 |
| 138 | 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 |
| 139 | Phase Behavior of Poly(methyl methacrylate)/Poly(vinylidene fluoride) Blends with and without High-Pressure CO2. Macromolecules, 2003, 36, 4245-4249. | 4.8 | 14 |
| 140 | The molecular structure and intermolecular interactions of 1,3:2,4-dibenzylidene-D-sorbitol. Molecular Physics, 2003, 101, 3017-3027. | 1.7 | 45 |
| 141 | ABA Triblock Copolymer Gels Modified with an A-Compatible Semicrystalline Homopolymer. Langmuir, 2002, 18, 8266-8270. | 3.5 | 13 |
| 142 | Block Copolymer/Homopolymer Mesoblends:Â Preparation and Characterization. Macromolecules, 2002, 35, 2268-2276. | 4.8 | 12 |
| 143 | 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 |
| 144 | Synthesis of Metal-Loaded Poly(aminohexyl)(aminopropyl)silsesquioxane Colloids and Their Self-Organization into Dendrites. Nano Letters, 2002, 2, 873-876. | 9.1 | 26 |

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| 145 | Multiscale Dewetting of Low-Molecular-Weight Block Copolymer Ultrathin Films. Macromolecular Rapid Communications, 2002, 23, 205-209. | 3.9 | 11 |
| 146 | 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 |
| 147 | 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 |
| 148 | Topological coarsening of low-molecular-weight block copolymer ultrathin films by environmental AFM. Polymer, 2002, 43, 6719-6726. | 3.8 | 11 |
| 149 | Anomalous Phase Inversion in Polymer Blends Prepared by Cryogenic Mechanical Alloying. Macromolecules, 2001, 34, 1536-1538. | 4.8 | 30 |
| 150 | Gas Permeation Properties of Poly(1,1â€˜-dihydroperfluorooctyl acrylate), Poly(1,1â€˜-dihydroperfluorooctyl methacrylate), and Poly(styrene)-b-poly(1,1â€˜-dihydroperfluorooctyl) Tj ETQq0 0 0 rgBT /Overlock 10 | 4.8 | 27 |
| 151 | Dynamic rheological behavior of DBS-induced poly(propylene glycol) physical gels. Rheologica Acta, 2001, 40, 30-38. | 2.4 | 33 |
| 152 | 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 |
| 153 | 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 |
| 154 | Interfacial and topological measurements of bicontinuous polymer morphologies. Physical Review E, 2001, 64, 010803. | 2.1 | 33 |
| 155 | Solid-State Blending of Polymers by Cryogenic Mechanical Alloying. Materials Research Society Symposia Proceedings, 2000, 629, 1. | 0.1 | 10 |
| 156 | Thermoplastic elastomers: fundamentals and applications. Current Opinion in Colloid and Interface Science, 2000, 5, 333-340. | 7.4 | 290 |
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