

Nitash P Balsara

List of Publications by Year in descending order

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228
papers

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23567

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of subsurface structures underneath dendrites formed on cycled lithium metal electrodes. <i>Nature Materials</i> , 2014, 13, 69-73.	27.5	740
2	Polymer Electrolytes. <i>Annual Review of Materials Research</i> , 2013, 43, 503-525.	9.3	668
3	Effect of Molecular Weight on the Mechanical and Electrical Properties of Block Copolymer Electrolytes. <i>Macromolecules</i> , 2007, 40, 4578-4585.	4.8	449
4	Effect of Molecular Weight and Salt Concentration on Conductivity of Block Copolymer Electrolytes. <i>Macromolecules</i> , 2009, 42, 4632-4637.	4.8	309
5	Effect of Ion Distribution on Conductivity of Block Copolymer Electrolytes. <i>Nano Letters</i> , 2009, 9, 1212-1216.	9.1	228
6	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. <i>ACS Energy Letters</i> , 0, , 1399-1404.	17.4	228
7	Energy storage emerging: A perspective from the Joint Center for Energy Storage Research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12550-12557.	7.1	218
8	Nonflammable perfluoropolyether-based electrolytes for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3327-3331.	7.1	182
9	Negative Transference Numbers in Poly(ethylene oxide)-Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 2017, 164, E3569-E3575.	2.9	178
10	Systematic Computational and Experimental Investigation of Lithium-Ion Transport Mechanisms in Polyester-Based Polymer Electrolytes. <i>ACS Central Science</i> , 2015, 1, 198-205.	11.3	162
11	Ionic Conductivity of Block Copolymer Electrolytes in the Vicinity of Order~Disorder and Order~Order Transitions. <i>Macromolecules</i> , 2009, 42, 5642-5651.	4.8	161
12	Thermodynamics of Block Copolymers with and without Salt. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4-17.	2.6	157
13	Effect of molecular weight on conductivity of polymer electrolytes. <i>Solid State Ionics</i> , 2011, 203, 18-21.	2.7	155
14	Ionic Conductivity of Low Molecular Weight Block Copolymer Electrolytes. <i>Macromolecules</i> , 2013, 46, 914-921.	4.8	154
15	Effect of Molecular Weight and Salt Concentration on Ion Transport and the Transference Number in Polymer Electrolytes. <i>Macromolecules</i> , 2015, 48, 7882-7888.	4.8	153
16	Anisotropic Proton Conduction in Aligned Block Copolymer Electrolyte Membranes at Equilibrium with Humid Air. <i>Macromolecules</i> , 2010, 43, 292-298.	4.8	152
17	Designing Polymer Electrolytes for Safe and High Capacity Rechargeable Lithium Batteries. <i>Accounts of Chemical Research</i> , 2017, 50, 590-593.	15.6	149
18	Morphology~Conductivity Relationship of Single-Ion-Conducting Block Copolymer Electrolytes for Lithium Batteries. <i>ACS Macro Letters</i> , 2014, 3, 510-514.	4.8	148

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19	Structure-Conductivity Relationship for Peptoid-Based PEO-Mimetic Polymer Electrolytes. <i>Macromolecules</i> , 2012, 45, 5151-5156.	4.8	137
20	X-ray Absorption Spectra of Dissolved Polysulfides in Lithium-Sulfur Batteries from First-Principles. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1547-1551.	4.6	134
21	Thermodynamic Properties of Block Copolymer Electrolytes Containing Imidazolium and Lithium Salts. <i>Macromolecules</i> , 2010, 43, 8282-8289.	4.8	131
22	Regular and Irregular Mixing in Blends of Saturated Hydrocarbon Polymers. <i>Macromolecules</i> , 1995, 28, 1260-1270.	4.8	130
23	Thermodynamics of Ion-Containing Polymer Blends and Block Copolymers. <i>Physical Review Letters</i> , 2011, 107, 198301.	7.8	129
24	Structure and Ionic Conductivity of Polystyrene-block-poly(ethylene oxide) Electrolytes in the High Salt Concentration Limit. <i>Macromolecules</i> , 2016, 49, 1770-1780.	4.8	129
25	Effect of Lithium-Ion Concentration on Morphology and Ion Transport in Single-Ion-Conducting Block Copolymer Electrolytes. <i>Macromolecules</i> , 2015, 48, 6589-6595.	4.8	125
26	Lithium Metal Stability in Batteries with Block Copolymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2013, 160, A464-A470.	2.9	121
27	Effect of Grain Size on the Ionic Conductivity of a Block Copolymer Electrolyte. <i>Macromolecules</i> , 2014, 47, 5424-5431.	4.8	119
28	Relationship between Conductivity, Ion Diffusion, and Transference Number in Perfluoropolyether Electrolytes. <i>Macromolecules</i> , 2016, 49, 3508-3515.	4.8	114
29	Self-assembly of crystalline nanotubes from monodisperse amphiphilic diblock copolypeptoid tiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3954-3959.	7.1	114
30	A Review of Existing and Emerging Methods for Lithium Detection and Characterization in Li-Ion and Li-Metal Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100372.	19.5	114
31	Compliant glass-polymer hybrid single ion-conducting electrolytes for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 52-57.	7.1	108
32	Characterization of Polysulfide Radicals Present in an Ether-Based Electrolyte of a Lithium-Sulfur Battery During Initial Discharge Using In Situ X-Ray Absorption Spectroscopy Experiments and First-Principles Calculations. <i>Advanced Energy Materials</i> , 2015, 5, 1500285.	19.5	107
33	Simultaneous Conduction of Electronic Charge and Lithium Ions in Block Copolymers. <i>ACS Nano</i> , 2012, 6, 1589-1600.	14.6	105
34	Factors That Control the Formation of Dendrites and Other Morphologies on Lithium Metal Anodes. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	103
35	Diffusion and migration in polymer electrolytes. <i>Progress in Polymer Science</i> , 2020, 103, 101220.	24.7	100
36	Diffraction imaging of nanocrystalline structures in organic semiconductor molecular thin films. <i>Nature Materials</i> , 2019, 18, 860-865.	27.5	99

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37	Influence of Electrolyte Modulus on the Local Current Density at a Dendrite Tip on a Lithium Metal Electrode. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2216-A2224.	2.9	98
38	Relationship between Steady-State Current in Symmetric Cells and Transference Number of Electrolytes Comprising Univalent and Multivalent Ions. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2720-A2722.	2.9	93
39	Optimizing Ion Transport in Polyether-Based Electrolytes for Lithium Batteries. <i>Macromolecules</i> , 2018, 51, 2847-2858.	4.8	86
40	Electrochemical Deposition and Stripping Behavior of Lithium Metal across a Rigid Block Copolymer Electrolyte Membrane. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2699-A2706.	2.9	81
41	Negative Stefan-Maxwell Diffusion Coefficients and Complete Electrochemical Transport Characterization of Homopolymer and Block Copolymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2766-A2773.	2.9	81
42	Relationship between Segmental Dynamics Measured by Quasi-Elastic Neutron Scattering and Conductivity in Polymer Electrolytes. <i>ACS Macro Letters</i> , 2018, 7, 504-508.	4.8	79
43	<i>50th Anniversary Perspective</i>: Phase Behavior of Polymer Solutions and Blends. <i>Macromolecules</i> , 2017, 50, 3051-3065.	4.8	78
44	Phase Behavior of Polystyrene- <i>block</i> -poly(2-vinylpyridine) Copolymers in a Selective Ionic Liquid Solvent. <i>Macromolecules</i> , 2009, 42, 4604-4613.	4.8	77
45	Fingerprinting Lithium-Sulfur Battery Reaction Products by X-ray Absorption Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1100-A1106.	2.9	76
46	Lithium Dendrite Growth in Glassy and Rubbery Nanostructured Block Copolymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2015, 162, A398-A405.	2.9	76
47	Beyond Local Solvation Structure: Nanometric Aggregates in Battery Electrolytes and Their Effect on Electrolyte Properties. <i>ACS Energy Letters</i> , 2022, 7, 461-470.	17.4	75
48	Salt Diffusion Coefficients in Block Copolymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2011, 158, A619.	2.9	72
49	Thermodynamics of Polymer Blends. , 2007, , 339-356.		71
50	Nanoparticle-Driven Assembly of Highly Conducting Hybrid Block Copolymer Electrolytes. <i>Macromolecules</i> , 2015, 48, 358-364.	4.8	71
51	Crystallization in Sequence-Defined Peptoid Diblock Copolymers Induced by Microphase Separation. <i>Journal of the American Chemical Society</i> , 2014, 136, 2070-2077.	13.7	70
52	Ohm's law for ion conduction in lithium and beyond-lithium battery electrolytes. <i>Journal of Chemical Physics</i> , 2019, 151, 020901.	3.0	67
53	Universal Relationship between Conductivity and Solvation-Site Connectivity in Ether-Based Polymer Electrolytes. <i>Macromolecules</i> , 2016, 49, 5244-5255.	4.8	66
54	Relationship between Ion Dissociation, Melt Morphology, and Electrochemical Performance of Lithium and Magnesium Single-Ion Conducting Block Copolymers. <i>Macromolecules</i> , 2016, 49, 9139-9147.	4.8	66

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55	Effect of Chemical Oxidation on the Self-Assembly of Organometallic Block Copolymers. <i>Journal of the American Chemical Society</i> , 2004, 126, 7446-7447.	13.7	65
56	Bending Soft Block Copolymer Nanostructures by Lithographically Directed Assembly. <i>Macromolecules</i> , 2006, 39, 2435-2437.	4.8	65
57	Lithium Polysulfide Radical Anions in Ether-Based Solvents. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18403-18410.	3.1	65
58	Effect of monomer structure on ionic conductivity in a systematic set of polyester electrolytes. <i>Solid State Ionics</i> , 2016, 289, 118-124.	2.7	62
59	Discontinuous Changes in Ionic Conductivity of a Block Copolymer Electrolyte through an Order-Disorder Transition. <i>ACS Macro Letters</i> , 2012, 1, 305-309.	4.8	60
60	Polymer and composite electrolytes. <i>MRS Bulletin</i> , 2018, 43, 759-767.	3.5	60
61	Failure Mode of Lithium Metal Batteries with a Block Copolymer Electrolyte Analyzed by X-Ray Microtomography. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1301-A1309.	2.9	59
62	Phase Behavior and Electrochemical Characterization of Blends of Perfluoropolyether, Poly(ethylene Terephthalate) and Poly(ethylene Oxide). <i>Journal of Polymer Science Part B: Polymer Physics</i> , 2018, 56, 1000-1010.	6.7	58
63	First-Order Disordered-to-Lamellar Phase Transition in Lithium Salt-Doped Block Copolymers. <i>ACS Macro Letters</i> , 2013, 2, 478-481.	4.8	57
64	Phase Behavior of Mixtures of Block Copolymers and a Lithium Salt. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8065-8074.	2.6	57
65	The evolution of cyclopropenium ions into functional polyelectrolytes. <i>Nature Communications</i> , 2015, 6, 5950.	12.8	54
66	Orientation mapping of semicrystalline polymers using scanning electron nanobeam diffraction. <i>Micron</i> , 2016, 88, 30-36.	2.2	54
67	Nanostructured Single-Ion-Conducting Hybrid Electrolytes Based on Salty Nanoparticles and Block Copolymers. <i>Macromolecules</i> , 2017, 50, 1998-2005.	4.8	53
68	Universal Relationship between Molecular Structure and Crystal Structure in Peptoid Polymers and Prevalence of the <i>cis</i> Backbone Conformation. <i>Journal of the American Chemical Society</i> , 2018, 140, 827-833.	13.7	52
69	Comparing Cycling Characteristics of Symmetric Lithium-Polymer-Lithium Cells with Theoretical Predictions. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3186-A3194.	2.9	51
70	Phase Behavior of a Block Copolymer/Salt Mixture through the Order-to-Disorder Transition. <i>Macromolecules</i> , 2014, 47, 2666-2673.	4.8	50
71	Growth of Lithium Dendrites and Globules through a Solid Block Copolymer Electrolyte as a Function of Current Density. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26797-26804.	3.1	49
72	Platelet Self-Assembly of an Amphiphilic A ₂ B ₂ C ₂ A Tetrablock Copolymer in Pure Water. <i>Macromolecules</i> , 2005, 38, 3567-3570.	4.8	48

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73	Atomic-level engineering and imaging of polypeptoid crystal lattices. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22491-22499.	7.1	48
74	Effect of Anion Size on Conductivity and Transference Number of Perfluoroether Electrolytes with Lithium Salts. Journal of the Electrochemical Society, 2017, 164, A3511-A3517.	2.9	47
75	Ionic Liquid Distribution in Ordered Block Copolymer Solutions. Macromolecules, 2010, 43, 3750-3756.	4.8	45
76	High Anion Conductivity and Low Water Uptake of Phosphonium Containing Diblock Copolymer Membranes. Macromolecules, 2014, 47, 7540-7547.	4.8	44
77	3D Detection of Lithiation and Lithium Plating in Graphite Anodes during Fast Charging. ACS Nano, 2021, 15, 10480-10487.	14.6	43
78	Difference between approximate and rigorously measured transference numbers in fluorinated electrolytes. Physical Chemistry Chemical Physics, 2019, 21, 7857-7866.	2.8	42
79	Thermodynamic origins of the solvent-dependent stability of lithium polysulfides from first principles. Physical Chemistry Chemical Physics, 2017, 19, 1441-1448.	2.8	41
80	Anisotropic Ion Diffusion and Electrochemically Driven Transport in Nanostructured Block Copolymer Electrolytes. Journal of Physical Chemistry B, 2018, 122, 1537-1544.	2.6	39
81	Measurement of Three Transport Coefficients and the Thermodynamic Factor in Block Copolymer Electrolytes with Different Morphologies. Journal of Physical Chemistry B, 2020, 124, 921-935.	2.6	39
82	Membranes with artificial free-volume for biofuel production. Nature Communications, 2015, 6, 7529.	12.8	38
83	3D Printed Absorber for Capturing Chemotherapy Drugs before They Spread through the Body. ACS Central Science, 2019, 5, 419-427.	11.3	38
84	Morphology and Proton Transport in Humidified Phosphonated Peptoid Block Copolymers. Macromolecules, 2016, 49, 3083-3090.	4.8	36
85	Imaging Unstained Synthetic Polymer Crystals and Defects on Atomic Length Scales Using Cryogenic Electron Microscopy. Macromolecules, 2018, 51, 7794-7799.	4.8	36
86	Improved Li ⁺ Transport in Polyacetal Electrolytes: Conductivity and Current Fraction in a Series of Polymers. ACS Energy Letters, 2021, 6, 1886-1891.	17.4	36
87	Study of gas permeabilities through polystyrene-block-poly(ethylene oxide) copolymers. Journal of Membrane Science, 2013, 432, 83-89.	8.2	35
88	Comparing the Energy Content of Batteries, Fuels, and Materials. Journal of Chemical Education, 2013, 90, 446-452.	2.3	35
89	Discharge Characteristics of Lithium Battery Electrodes with a Semiconducting Polymer Studied by Continuum Modeling and Experiment. Journal of the Electrochemical Society, 2014, 161, A1836-A1843.	2.9	33
90	Relationship between Mobility and Lattice Strain in Electrochemically Doped Poly(3-hexylthiophene). ACS Macro Letters, 2015, 4, 1386-1391.	4.8	33

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91	Comparing Experimental Measurements of Limiting Current in Polymer Electrolytes with Theoretical Predictions. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3228-A3234.	2.9	33
92	Comparing Two Electrochemical Approaches for Measuring Transference Numbers in Concentrated Electrolytes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3014-A3021.	2.9	32
93	Investigating the Effect of Added Salt on the Chain Dimensions of Poly(ethylene oxide) through Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2019, 52, 8724-8732.	4.8	32
94	Neutron Scattering from Pressurized Polyolefin Blends near the Limits of Metastability. <i>Macromolecules</i> , 2000, 33, 7977-7989.	4.8	31
95	In Situ X-ray Absorption Spectroscopy Studies of Discharge Reactions in a Thick Cathode of a Lithium Sulfur Battery. <i>Journal of the Electrochemical Society</i> , 2017, 164, A18-A27.	2.9	31
96	Relationship between morphology and conductivity of block-copolymer based battery separators. <i>Journal of Membrane Science</i> , 2012, 394-395, 175-183.	8.2	28
97	Pervaporation-assisted catalytic conversion of xylose to furfural. <i>Green Chemistry</i> , 2016, 18, 4073-4085.	9.0	28
98	Reentrant phase behavior and coexistence in asymmetric block copolymer electrolytes. <i>Soft Matter</i> , 2018, 14, 2789-2795.	2.7	28
99	Extended Cycling through Rigid Block Copolymer Electrolytes Enabled by Reducing Impurities in Lithium Metal Electrodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 8197-8206.	5.1	28
100	Dissolution of Lithium Metal in Poly(ethylene oxide). <i>ACS Energy Letters</i> , 2019, 4, 903-907.	17.4	28
101	Does conventional nucleation occur during phase separation in polymer blends?. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 1793-1809.	2.1	27
102	Effect of Cross-Linking on the Structure and Thermodynamics of Lamellar Block Copolymers. <i>Macromolecules</i> , 2006, 39, 4848-4859.	4.8	27
103	Correlations between Salt-Induced Crystallization, Morphology, Segmental Dynamics, and Conductivity in Amorphous Block Copolymer Electrolytes. <i>Macromolecules</i> , 2018, 51, 1733-1740.	4.8	27
104	Liquid-Crystalline Phase Behavior in Polypeptoid Diblock Copolymers. <i>Macromolecules</i> , 2018, 51, 9519-9525.	4.8	27
105	Anomalous Self-Assembly and Ion Transport in Nanostructured Organic-Inorganic Solid Electrolytes. <i>ACS Macro Letters</i> , 2018, 7, 1056-1061.	4.8	27
106	Establishing a unified framework for ion solvation and transport in liquid and solid electrolytes. <i>Trends in Chemistry</i> , 2021, 3, 807-818.	8.5	27
107	Water Uptake and Proton Conductivity in Porous Block Copolymer Electrolyte Membranes. <i>Macromolecules</i> , 2015, 48, 5648-5655.	4.8	26
108	Liquid perfluoropolyether electrolytes with enhanced ionic conductivity for lithium battery applications. <i>Polymer</i> , 2016, 100, 126-133.	3.8	26

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109	Mesoporous Block Copolymer Morphology Studied by Contrast-Matched Resonant Soft X-ray Scattering. <i>Macromolecules</i> , 2012, 45, 9188-9195.	4.8	25
110	Conductivity of carbonate- and perfluoropolyether-based electrolytes in porous separators. <i>Journal of Power Sources</i> , 2016, 323, 158-165.	7.8	24
111	Synthesis of Well-Defined Polyethylene- <i>b</i> -Polydimethylsiloxane- <i>b</i> -Polyethylene Triblock Copolymers by Diimide-Based Hydrogenation of Polybutadiene Blocks. <i>Macromolecules</i> , 2014, 47, 4151-4159.	4.8	23
112	Mechanism of ion transport in perfluoropolyether electrolytes with a lithium salt. <i>Soft Matter</i> , 2017, 13, 5389-5396.	2.7	23
113	Organizing thermodynamic data obtained from multicomponent polymer electrolytes: Salt-containing polymer blends and block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1177-1187.	2.1	23
114	Fermentation of hydrolysate detoxified by pervaporation through block copolymer membranes. <i>Green Chemistry</i> , 2014, 16, 4206-4213.	9.0	22
115	Continuous pervaporation-assisted furfural production catalyzed by CrCl ₃ . <i>Green Chemistry</i> , 2018, 20, 2903-2912.	9.0	22
116	Order-Disorder Transitions in Cross-Linked Block Copolymer Solids. <i>Macromolecules</i> , 2005, 38, 1277-1285.	4.8	21
117	Modifying Li ⁺ and Anion Diffusivities in Polyacetal Electrolytes: A Pulsed-Field-Gradient NMR Study of Ion Self-Diffusion. <i>Chemistry of Materials</i> , 2021, 33, 4915-4926.	6.7	21
118	Rate Constants of Electrochemical Reactions in a Lithium-Sulfur Cell Determined by Operando X-ray Absorption Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3487-A3495.	2.9	20
119	Comparing Experimental Phase Behavior of Ion-Doped Block Copolymers with Theoretical Predictions Based on Selective Ion Solvation. <i>Macromolecules</i> , 2020, 53, 3956-3966.	4.8	20
120	Segmental Dynamics Measured by Quasi-Elastic Neutron Scattering and Ion Transport in Chemically Distinct Polymer Electrolytes. <i>Macromolecules</i> , 2020, 53, 2406-2411.	4.8	20
121	Block Copolymer Membranes for Efficient Capture of a Chemotherapy Drug. <i>ACS Macro Letters</i> , 2016, 5, 936-941.	4.8	19
122	Dependence of Morphology, Shear Modulus, and Conductivity on the Composition of Lithiated and Magnesiated Single-Ion-Conducting Block Copolymer Electrolytes. <i>Macromolecules</i> , 2017, 50, 8765-8776.	4.8	19
123	Theoretical Interpretation of Ion Velocities in Concentrated Electrolytes Measured by Electrophoretic NMR. <i>Journal of the Electrochemical Society</i> , 2019, 166, A264-A267.	2.9	19
124	Effect of Solvent Motion on Ion Transport in Electrolytes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040524.	2.9	19
125	Responsive Solids from Cross-Linked Block Copolymers. <i>Physical Review Letters</i> , 2003, 90, 155505.	7.8	18
126	Effect of thermal history on the ionic conductivity of block copolymer electrolytes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 927-934.	2.1	18

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127	Development and Validation of Endovascular Chemotherapy Filter Device for Removing High-Dose Doxorubicin: Preclinical Study. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014, 8, 0410081-410088.	0.7	18
128	Effect of processing and end groups on the crystal structure of polypeptoids studied by cryogenic electron microscopy at atomic length scales. <i>Soft Matter</i> , 2019, 15, 4723-4736.	2.7	18
129	Structure and Thermodynamics of Hybrid Organic-Inorganic Diblock Copolymers with Salt. <i>Macromolecules</i> , 2019, 52, 3165-3175.	4.8	18
130	Impact of Salt Concentration on Nonuniform Lithium Electrodeposition through Rigid Block Copolymer Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47878-47885.	8.0	18
131	Miscible Polyether/Poly(ether-acetal) Electrolyte Blends. <i>Macromolecules</i> , 2020, 53, 5728-5739.	4.8	18
132	The Transference Number. <i>Energy and Environmental Materials</i> , 2022, 5, 366-369.	12.8	18
133	Composition Dependence of the Flory-Huggins Interaction Parameters of Block Copolymer Electrolytes and the Isotaxis Point. <i>Macromolecules</i> , 2019, 52, 5590-5601.	4.8	17
134	Uncovering Local Correlations in Polymer Electrolytes by X-ray Scattering and Molecular Dynamics Simulations. <i>Macromolecules</i> , 2021, 54, 6639-6648.	4.8	17
135	Electric-Field-Induced Spatially Dynamic Heterogeneity of Solvent Motion and Cation Transference in Electrolytes. <i>Physical Review Letters</i> , 2022, 128, .	7.8	17
136	Liquid Sulfur Impregnation of Microporous Carbon Accelerated by Nanoscale Interfacial Effects. <i>Nano Letters</i> , 2017, 17, 2517-2523.	9.1	16
137	Electrochemical properties of poly(ethylene oxide) electrolytes above the entanglement threshold. <i>Solid State Ionics</i> , 2021, 364, 115609.	2.7	16
138	Impact of Frictional Interactions on Conductivity, Diffusion, and Transference Number in Ether- and Perfluoroether-Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 120540.	2.9	16
139	Microphase segregation in molten randomly grafted copolymers. <i>Journal of Chemical Physics</i> , 2001, 115, 3387-3400.	3.0	15
140	Direct Imaging of Nanoscale Acidic Clusters in a Polymer Electrolyte Membrane. <i>Journal of the American Chemical Society</i> , 2011, 133, 20700-20703.	13.7	15
141	Comparing Measurements of Limiting Current of Electrolytes with Theoretical Predictions up to the Solubility Limit. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23872-23881.	3.1	15
142	Resolving the Morphology of Peptoid Vesicles at the 1 nm Length Scale Using Cryogenic Electron Microscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1195-1205.	2.6	15
143	Limiting Current in Nanostructured Block Copolymer Electrolytes. <i>Macromolecules</i> , 2021, 54, 4010-4022.	4.8	15
144	Temperature and concentration dependence of the ionic transport properties of poly(ethylene oxide) electrolytes. <i>Solid State Ionics</i> , 2021, 370, 115751.	2.7	15

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145	Does coarsening begin during the initial stages of spinodal decomposition?. Journal of Chemical Physics, 2005, 122, 214903.	3.0	14
146	Minimizing the Concentration of Diblock Copolymer Needed To Organize Blends of Weakly Segregated Polymers by Tuning Attractive and Repulsive Interactions. Macromolecules, 2007, 40, 1207-1217.	4.8	14
147	Conductivity and water uptake in block copolymers containing protonated polystyrene sulfonate and their imidazolium salts. Soft Matter, 2011, 7, 4446.	2.7	14
148	Pervaporation of organic compounds from aqueous mixtures using polydimethylsiloxane-containing block copolymer membranes. AIChE Journal, 2015, 61, 2789-2794.	3.6	14
149	Conductivity of Block Copolymer Electrolytes Containing Lithium Polysulfides. Macromolecules, 2015, 48, 4863-4873.	4.8	14
150	Toward Bottom-Up Understanding of Transport in Concentrated Battery Electrolytes. ACS Central Science, 2022, 8, 880-890.	11.3	14
151	Birefringence and Depolarized Light Scattering from Ordered Block Copolymers with Anisotropic Distributions of Grain Orientations Produced by Shear Flow. Macromolecules, 2004, 37, 4185-4195.	4.8	13
152	Influence of Miscibility on Poly(ethylene oxide) Crystallization from Disordered Melts of Block Copolymers with Lithium and Magnesium Counterions. Macromolecules, 2017, 50, 4827-4839.	4.8	13
153	Simulation of local ion transport in lamellar block copolymer electrolytes based on electron micrographs. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 266-274.	2.1	13
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