Masayoshi Watanabe

List of Publications by Year
in descending order

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499	38,704	2427	3579
papers	citations	97 h-index	181 g-index

513	513	513	21143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Liquid Metalâ€“Ionic Liquid Composite Gels for Soft, Mixed Electronicâ€“Ionic Conductors. Macromolecular Chemistry and Physics, 2022, 223, 2100319.	2.2	2
2	Local Lithium-Ion Transport of a Ternary Sulfolane-Lithium Bis(trifluoromethanesulfonyl)amide-Carbonate Electrolyte: Experimental and First-Principles Molecular Dynamics Analysis toward Quasi-Solid-State Lithium-Ion Battery. Journal of the Electrochemical Society, 2022, 169, 020534.	2.9	3
3	Effects of polyimide sequence and monomer structures on CO2 permeation and mechanical properties of sulfonated polyimide/ionic liquid composite membranes. Polymer, 2022, 241, 124533.	3.8	7
4	Importance of Mass Transport in High Energy Density Lithiumâ€Sulfur Batteries Under Lean Electrolyte Conditions. Batteries and Supercaps, 2022, 5, .	4.7	6
5	Electrochemical Pretreatment of Solidâ€Electrolyte Interphase Formation for Enhanced Li₄Ti₅O₁₂ Anode Performance in a Molten Liâ^'Ca Binary Salt Hydrate Electrolyte. ChemElectroChem, 2022, 9, .	3.4	3
6	Li-Ion Transport and Solvation of a Li Salt of Weakly Coordinating Polyanions in Ethylene Carbonate/Dimethyl Carbonate Mixtures. ACS Applied Materials & Interfaces, 2022, 14, 18324-18334.	8.0	8
7	Li⁺ transference number and dynamic ion correlations in glyme-Li salt solvate ionic liquids diluted with molecular solvents. Physical Chemistry Chemical Physics, 2022, 24, 14269-14276.	2.8	10
8	Eutectic Electrolytes Composed of LiN(SO₂F)₂ and Sulfones for Li-Ion Batteries. Journal of Physical Chemistry C, 2022, 126, 10024-10034.	3.1	18
9	Comparison of Sulfur Cathode Reactions between a Concentrated Liquid Electrolyte System and a Solid-State Electrolyte System by Soft X-Ray Absorption Spectroscopy. ACS Applied Energy Materials, 2021, 4, 186-193.	5.1	10
10	Resent Advances in Self-healing Ion Gels. Nippon Gomu Kyokaishi, 2021, 94, 39-45.	0.0	0
11	Solvate electrolytes for Li and Na batteries: structures, transport properties, and electrochemistry. Physical Chemistry Chemical Physics, 2021, 23, 21419-21436.	2.8	32
12	Molecularly Tunable Polyanions for Single-Ion Conductors and Poly(solvate ionic liquids). Chemistry of Materials, 2021, 33, 524-534.	6.7	53
13	Anion effects on Li ion transference number and dynamic ion correlations in glymeâ€“Li salt equimolar mixtures. Physical Chemistry Chemical Physics, 2021, 23, 2622-2629.	2.8	30
14	Understanding the Reductive Decomposition of Highly Concentrated Li Salt/Sulfolane Electrolytes during Li Deposition and Dissolution. ACS Applied Energy Materials, 2021, 4, 1851-1859.	5.1	24
15	Direct Observation of Photoâ€Induced Reversible Solâ€“Gel Transition in Block Copolymer Selfâ€Assembly Containing an Azobenzene Ionic Liquid. Macromolecular Rapid Communications, 2021, 42, e2100091.	3.9	4
16	Investigations of Ionic Transport Mechanism of Polyether-Based Polymer Electrolytes for All-Solid-State Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 435-435.	0.0	0
17	Synthesis, mechanical properties, and ionic conductivity of rotaxane cross-linked polymers. Polymer, 2021, 227, 123844.	3.8	0
18	Structural Effects of Solvents on Li-Ion-Hopping Conduction in Highly Concentrated LiBF₄/Sulfone Solutions. Journal of Physical Chemistry B, 2021, 125, 6600-6608.	2.6	28

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19	Transport Properties of Flexible Composite Electrolytes Composed of Li_{1.5}Al_{0.5}Ti_{1.5}(PO₄)₃ and a Poly(vinylidene fluoride-co-hexafluoropropylene) Gel Containing a Highly Concentrated Li[N(SO₂CF₃)₂]/Sulfolane Electrolyte. ACS Omega, 2021, 6, 16187-16193.	3.5	7
20	Experimental Methods for Assembly of Dendrite-free Lithium-Sulfur Batteries. Chemistry Letters, 2021, 50, 1217-1219.	1.3	2
21	Analysis of Ionic Transport and Electrode Interfacial Reaction, and NMR One-Dimensional Imaging of Ether-Based Polymer Electrolytes. Journal of the Electrochemical Society, 2021, 168, 060501.	2.9	3
22	Rate Performance of LiCoO₂ Half-cells Using Highly Concentrated Lithium Bis(fluorosulfonyl)amide Electrolytes and Their Relevance to Transport Properties. Electrochemistry, 2021, 89, 389-394.	1.4	8
23	Local Structure of Li⁺ in Superconcentrated Aqueous LiTFSA Solutions. Journal of Physical Chemistry B, 2021, 125, 7477-7484.	2.6	9
24	Design of Polymer Network and Li⁺ Solvation Enables Thermally and Oxidatively Stable, Mechanically Reliable, and Highly Conductive Polymer Gel Electrolyte for Lithium Batteries. Journal of the Electrochemical Society, 2021, 168, 090538.	2.9	6
25	Advances in Organic Ionic Materials Based on Ionic Liquids and Polymers. Bulletin of the Chemical Society of Japan, 2021, 94, 2739-2769.	3.2	10
26	Effects of Lithium Salt Concentration in Ionic Liquid Electrolytes on Battery Performance of LiNi_{0.5}Mn_{0.3}Co_{0.2}O₂/Graphite Cells. Electrochemistry, 2021, 89, 455-460.	1.4	8
27	Highly Concentrated NaN(SO₂F)₂/3-Methylsulfolane Electrolyte Solution Showing High Na-Ion Transference Number under Anion-Blocking Conditions. Electrochemistry, 2021, 89, 590-596.	1.4	3
28	Electrochemical Properties of Poly(vinylidene fluoride-<i>co</i>-hexafluoropropylene) Gel Electrolytes with High-Concentration Li Salt/Sulfolane for Lithium Batteries. Electrochemistry, 2021, 89, 567-572.	1.4	5
29	Liâ€“S Battery Using Li2S Cathode. , 2021, , 403-414.		0
30	Thermodynamic aspect of sulfur, polysulfide anion and lithium polysulfide: plausible reaction path during discharge of lithiumâ€“sulfur battery. Physical Chemistry Chemical Physics, 2021, 23, 6832-6840.	2.8	11
31	Towards practical cells: combined use of titanium black as a cathode additive and sparingly solvating electrolyte for high-energy-density lithiumâ€“sulfur batteries. Sustainable Energy and Fuels, 2021, 5, 1821-1831.	4.9	15
32	Effects of Li ion-solvent interaction on ionic transport and electrochemical properties in highly concentrated cyclic carbonate electrolytes. Journal of Non-Crystalline Solids: X, 2021, 11-12, 100071.	1.2	5
33	In Situ Impedance Spectra Analysis of Lithium-Sulfur Battery Using Sulfolane-Based Super-Concentrated Electrolyte Solution. ECS Meeting Abstracts, 2021, MA2021-02, 31-31.	0.0	1
34	Rheological and Ionic Transport Properties of Nanocomposite Electrolytes Based on Protic Ionic Liquids and Silica Nanoparticles. Langmuir, 2020, 36, 148-158.	3.5	10
35	Graphiteâ€“Lithium Sulfide Battery with a Single-Phase Sparingly Solvating Electrolyte. ACS Energy Letters, 2020, 5, 1-7.	17.4	41
36	Microphase-separated structures of ion gels consisting of ABA-type block copolymers and an ionic liquid: A key to escape from the trade-off between mechanical and transport properties. Polymer, 2020, 206, 122849.	3.8	14

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37	Reversible Ion-Conducting Switch by Azobenzene Molecule with Light-Controlled Solâ€“Gel Transitions of the PNIPAm Ion Gel. ACS Applied Materials & Interfaces, 2020, 12, 42202-42209.	8.0	32
38	Azobenzene-Based Ionic Liquid Switches Phase Separation of Poly(N-isopropylacrylamide) Aqueous Solutions as a Molecular Trigger, Leading to UV Shutdown of Ionic Transport. ACS Macro Letters, 2020, 9, 825-829.	4.8	14
39	Azobenzene Molecular Trigger Controlling Phase Transitions of PNIPAm in Ionic Liquids and Light-Controlled Adhesiveness. Macromolecules, 2020, 53, 4901-4907.	4.8	21
40	Role of Viscosity in Deviations from the Nernstâ€“Einstein Relation. Journal of Physical Chemistry B, 2020, 124, 4774-4780.	2.6	22
41	Molten Li Salt Solvate-Silica Nanoparticle Composite Electrolytes with Tailored Rheological Properties. Electrochemistry, 2020, 88, 174-177.	1.4	1
42	Effects of fluoroethylene carbonate addition to Li-glyme solvate ionic liquids on their ionic transport properties and Si composite electrode performance. Electrochimica Acta, 2020, 353, 136559.	5.2	6
43	Recent progress in self-healable ion gels. Science and Technology of Advanced Materials, 2020, 21, 388-401.	6.1	24
44	Highly concentrated LiN(SO2CF3)2/dinitrile electrolytes: Liquid structures, transport properties, and electrochemistry. Journal of Chemical Physics, 2020, 152, 104502.	3.0	20
45	Effects of Polysulfide Solubility and Li Ion Transport on Performance of Liâ€“S Batteries Using Sparingly Solvating Electrolytes. Journal of the Electrochemical Society, 2020, 167, 070531.	2.9	52
46	Effects of Anion on Liquid Structures of Ionic Liquids at Graphene Electrode Interface Analyzed by Molecular Dynamics Simulations. Batteries and Supercaps, 2020, 3, 658-667.	4.7	4
47	Solvent effects on Li ion transference number and dynamic ion correlations in glyme- and sulfolane-based molten Li salt solvates. Physical Chemistry Chemical Physics, 2020, 22, 15214-15221.	2.8	53
48	Structures and Electrochemistry of Î³-Butyrolactone Solvates of Na Salts. Journal of Physical Chemistry C, 2020, 124, 15800-15811.	3.1	17
49	Liquidâ€State Optoelectronics Using Liquid Metal. Advanced Electronic Materials, 2020, 6, 1901135.	5.1	14
50	High Transference Number of Na Ion in Liquid-State Sulfolane Solvates of Sodium Bis(fluorosulfonyl)amide. Journal of Physical Chemistry C, 2020, 124, 4459-4469.	3.1	23
51	High performance electric double layer transistors using solvate ionic liquids. Japanese Journal of Applied Physics, 2020, 59, 030901.	1.5	2
52	Effect of network homogeneity on mechanical, thermal and electrochemical properties of solid polymer electrolytes prepared by homogeneous 4-arm poly(ethylene glycols). Soft Matter, 2020, 16, 4290-4298.	2.7	14
53	Speciation Analysis and Thermodynamic Criteria of Solvated Ionic Liquids: Ionic Liquids or Superconcentrated Solutions?. Journal of Physical Chemistry Letters, 2020, 11, 4517-4523.	4.6	16
54	Factors Affecting Li⁺ Transport Properties of Molten Li Salt Solvate Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 2948-2948.	0.0	1

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55	High Transference Number of Li Ion in Highly Concentrated Lithium Bis(trifluoromethanesulfonyl)Amide/Dinitrile Liquid Electrolytes. ECS Meeting Abstracts, 2020, MA2020-01, 372-372.	0.0	0
56	High Transference Number of Na Ion in Highly Concentrated Sodium Bis(fluorosulfonyl)Amide/Î³-Butyrolactone Electrolytes for Sodium Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 238-238.	0.0	0
57	Operando soft X-ray absorption spectroscopic study on microporous carbon-supported sulfur cathodes. RSC Advances, 2020, 10, 39875-39880.	3.6	8
58	Preparation of Li-S Polymer Battery Utilizing High Compatibility of Carbonaceous Materials with Highly Concentrated Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 3528-3528.	0.0	0
59	Lithium Polysulfide Sparingly Solvating Electrolyte for Practical High Energy Density Lithium Sulfur Battery. ECS Meeting Abstracts, 2020, MA2020-02, 280-280.	0.0	0
60	Composite Electrolyte Composed of Li1.5Al0.5Ti1.5(PO4)3 and PVDF-Based Gel Electrolyte Containing Highly Concentrated Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 940-940.	0.0	0
61	Li-Ion Transport in Three-Layer Electrolyte of Ionic Liquid/Solid-State Electrolyte (SSE)/Ionic Liquid. ECS Meeting Abstracts, 2020, MA2020-02, 3444-3444.	0.0	0
62	(Invited) Solvate Ionic Liquids and Their Polymer Electrolytes: Possible Beyond LIB Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 797-797.	0.0	0
63	Composite Electrolytes Based on Sulfide-Based Solid Electrolytes and Highly Concentrated Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 3526-3526.	0.0	0
64	High Transference Number of Na Ion in Highly Concentrated Nan(SO2F)2/Î³-Butyrolactone Electrolytes for Sodium Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 824-824.	0.0	0
65	Effect of Ionic Structure on Transport Properties of Weakly-Coordinating Polyanions Dissolved in Non-Aqueous Solvents. ECS Meeting Abstracts, 2020, MA2020-02, 3674-3674.	0.0	0
66	Ionic Transport Properties in Sulfone-Based Solid Polymer Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 3527-3527.	0.0	0
67	Thermally, Electrochemically, and Mechanically Tough Polymer Electrolytes Containing a Solvate Ionic Liquid for Lithium Secondary Battery. ECS Meeting Abstracts, 2020, MA2020-02, 665-665.	0.0	0
68	Investigation of Li-Ion Sulfur Battery Using Highly Composed S8 Positive Electrode and Li-Doped C6 Negative Electrode. ECS Meeting Abstracts, 2020, MA2020-02, 285-285.	0.0	0
69	Self-Assembly of Block Copolymers in an Ionic Liquid and Properties of Resulting Ion Gels. ECS Meeting Abstracts, 2020, MA2020-02, 2966-2966.	0.0	0
70	High Transference Number of Li Ion in Highly Concentrated Lithium Bis(trifluoromethanesulfonyl)Amide/Dinitrile Liquid Electrolytes for Lithium Sulfur Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 3443-3443.	0.0	0
71	Effects of Polysulfide Solubility and Li Ion Transport on Liâ€“S Batteries Using Sparingly Solvating Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 366-366.	0.0	0
72	(A04 Best Poster Award Winner) Effects of Anion Species on Li Ion Transport and Electrochemical Properties in Highly Concentrated Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 822-822.	0.0	0

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73	(Invited) Soft Materials Containing Ionic Liquid As Solvent. ECS Meeting Abstracts, 2020, MA2020-02, 2963-2963.	0.0	0
74	Strategy and Issue for Li-S Batteries with High Energy Density. ECS Meeting Abstracts, 2020, MA2020-02, 3529-3529.	0.0	0
75	Ionic Liquid/Sulfonated Polyimide Composite Membranes: Effect of Polyimide Sequence on CO2 Transport Properties. ECS Meeting Abstracts, 2020, MA2020-02, 2902-2902.	0.0	0
76	Performance of Lithium Sulfur Batteries Consisting of Li2s/Carbon Composite Cathode. ECS Meeting Abstracts, 2020, MA2020-02, 3530-3530.	0.0	0
77	Preparation of Electron/Ion-Mixed Conducting Gel Using Liquid Metal and Ionic Liquid. ECS Meeting Abstracts, 2020, MA2020-02, 2967-2967.	0.0	0
78	Design of Sparingly Solvating Electrolytes for Li-S Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 453-453.	0.0	0
79	Thermodynamic Effect of Anion Activity on Electrochemical Reactions Involving Li⁺ Ions in Roomâ€Temperature Ionic Liquids. ChemElectroChem, 2019, 6, 4444-4449.	3.4	12
80	Physicochemical compatibility of highly-concentrated solvate ionic liquids and a low-viscosity solvent. RSC Advances, 2019, 9, 24922-24927.	3.6	6
81	Effect of ionic liquid structure on viscoelastic behavior of hydrogen-bonded micellar ion gels. Polymer, 2019, 178, 121694.	3.8	15
82	Glymeâ€“Li salt equimolar molten solvates with iodide/triiodide redox anions. RSC Advances, 2019, 9, 22668-22675.	3.6	5
83	Role of Cation Structure in CO2 Separation by Ionic Liquid/Sulfonated Polyimide Composite Membrane. Membranes, 2019, 9, 81.	3.0	11
84	Transport and Mechanical Properties of ABA-type Triblock Copolymer Ion Gels Correlated with Their Microstructures. Macromolecules, 2019, 52, 8430-8439.	4.8	20
85	Excellent dispersibility of single-walled carbon nanotubes in highly concentrated electrolytes and application to gel electrode for Li-S batteries. Electrochemistry Communications, 2019, 109, 106598.	4.7	12
86	Key factor governing the physicochemical properties and extent of proton transfer in protic ionic liquids: Î”pK_a or chemical structure?. Physical Chemistry Chemical Physics, 2019, 21, 418-426.	2.8	42
87	Sulfolane-Based Highly Concentrated Electrolytes of Lithium Bis(trifluoromethanesulfonyl)amide: Ionic Transport, Li-Ion Coordination, and Liâ€“S Battery Performance. Journal of Physical Chemistry C, 2019, 123, 14229-14238.	3.1	138
88	Effects of Sulfur Loading, Cathode Porosity, and Electrolyte Amount on Li-S Battery Performance with Solvate Ionic Liquid Electrolyte. Electrochemistry, 2019, 87, 254-259.	1.4	11
89	Solvation Structure of Poly(benzyl methacrylate) in a Solvate Ionic Liquid: Preferential Solvation of Liâ€“Glyme Complex Cation. Journal of Physical Chemistry B, 2019, 123, 4098-4107.	2.6	2
90	Application of Protic Ionic Liquids to CO₂ Separation in a Sulfonated Polyimide-Derived Ion Gel Membrane. ACS Applied Polymer Materials, 2019, 1, 1579-1589.	4.4	25

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91	Effect of Electrolyte Composition on Performance and Stability of Lithiumâ€“Sulfur Batteries. Energy Technology, 2019, 7, 1900197.	3.8	12
92	Li-ion hopping conduction in highly concentrated lithium bis(fluorosulfonyl)amide/dinitrile liquid electrolytes. Physical Chemistry Chemical Physics, 2019, 21, 9759-9768.	2.8	77
93	Clusterâ€“Micelle Transition of a Thermo- and Photoresponsive ABC Triblock Copolymer in an Ionic Liquid. Australian Journal of Chemistry, 2019, 72, 155.	0.9	0
94	Ionic transport in highly concentrated lithium bis(fluorosulfonyl)amide electrolytes with keto ester solvents: structural implications for ion hopping conduction in liquid electrolytes. Physical Chemistry Chemical Physics, 2019, 21, 5097-5105.	2.8	35
95	Dynamic Chelate Effect on the Li⁺-Ion Conduction in Solvate Ionic Liquids. Journal of Physical Chemistry C, 2019, 123, 30228-30233.	3.1	10
96	Polymer electrolytes based on a homogeneous poly(ethylene glycol) network and their application to polymer actuators. Electrochimica Acta, 2019, 298, 866-873.	5.2	16
97	Viscoelastic change of block copolymer ion gels in a photo-switchable azobenzene ionic liquid triggered by light. Chemical Communications, 2019, 55, 1710-1713.	4.1	26
98	Solvate Ionic Liquids for Li, Na, K, and Mg Batteries. Chemical Record, 2019, 19, 708-722.	5.8	42
99	Liquid Structures and Transport Properties of Lithium Bis(fluorosulfonyl)amide/Glyme Solvate Ionic Liquids for Lithium Batteries. Australian Journal of Chemistry, 2019, 72, 70.	0.9	21
100	Ion Gels for Ionic Polymer Actuators. , 2019, , 217-232.		0
101	Protic ionic liquids with primary alkylamine-derived cations: the dominance of hydrogen bonding on observed physicochemical properties. RSC Advances, 2018, 8, 9790-9794.	3.6	23
102	Magnesium bis(trifluoromethanesulfonyl)amide complexes with triglyme and asymmetric homologues: phase behavior, coordination structures and melting point reduction. Physical Chemistry Chemical Physics, 2018, 20, 7998-8007.	2.8	19
103	Molecular dynamics study of thermodynamic stability and dynamics of [Li(glyme)]+ complex in lithium-glyme solvate ionic liquids. Journal of Chemical Physics, 2018, 148, 193809.	3.0	31
104	Photocurable ABA triblock copolymer-based ion gels utilizing photodimerization of coumarin. RSC Advances, 2018, 8, 3418-3422.	3.6	19
105	Electrolyte Composition in Li/O₂ Batteries with LiI Redox Mediators: Solvation Effects on Redox Potentials and Implications for Redox Shuttling. Journal of Physical Chemistry C, 2018, 122, 1522-1534.	3.1	51
106	Advanced Materials Based on Polymers and Ionic Liquids. Chemical Record, 2018, 18, 391-409.	5.8	51
107	Structure and dynamics of ionic liquids: general discussion. Faraday Discussions, 2018, 206, 291-337.	3.2	8
108	Polymer Electrolytes Containing Solvate Ionic Liquids: A New Approach To Achieve High Ionic Conductivity, Thermal Stability, and a Wide Potential Window. Chemistry of Materials, 2018, 30, 252-261.	6.7	60

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109	Simple combination of a protic salt and an iron halide: precursor for a Fe,ÂN and S co-doped catalyst for the oxygen reduction reaction in alkaline and acidic media. Journal of Materials Chemistry A, 2018, 6, 1138-1149.	10.3	33
110	Controlled Solâ€“Gel Transitions of a Thermoresponsive Polymer in a Photoswitchable Azobenzene Ionic Liquid as a Molecular Trigger. Angewandte Chemie - International Edition, 2018, 57, 227-230.	13.8	60
111	Controlled Solâ€“Gel Transitions of a Thermoresponsive Polymer in a Photoswitchable Azobenzene Ionic Liquid as a Molecular Trigger. Angewandte Chemie, 2018, 130, 233-236.	2.0	12
112	Photohealable ion gels based on the reversible dimerisation of anthracene. Chemical Communications, 2018, 54, 13371-13374.	4.1	24
113	Direct Evidence for Li Ion Hopping Conduction in Highly Concentrated Sulfolane-Based Liquid Electrolytes. Journal of Physical Chemistry B, 2018, 122, 10736-10745.	2.6	165
114	Solid polymer electrolytes based on polystyreneâ€polyether block copolymers having branched ether structure. Polymers for Advanced Technologies, 2018, 30, 736.	3.2	4
115	From Ionic Liquids to Solvate Ionic Liquids: Challenges and Opportunities for Next Generation Battery Electrolytes. Bulletin of the Chemical Society of Japan, 2018, 91, 1660-1682.	3.2	85
116	Sulfonated Polyimide/Ionic Liquid Composite Membranes for CO₂ Separation: Transport Properties in Relation to Their Nanostructures. Macromolecules, 2018, 51, 7112-7120.	4.8	40
117	Photo/thermoresponsive ABC triblock copolymer-based ion gels: photoinduced structural transitions. Soft Matter, 2018, 14, 9088-9095.	2.7	18
118	Neutron scattering studies on short- and long-range layer structures and related dynamics in imidazolium-based ionic liquids. Journal of Chemical Physics, 2018, 149, 054502.	3.0	20
119	Selfâ€Healing Micellar Ion Gels Based on Multiple Hydrogen Bonding. Advanced Materials, 2018, 30, e1802792.	21.0	208
120	Tuning NaO₂ Cube Sizes by Controlling Na⁺ and Solvent Activity in Naâ€“O₂ Batteries. Journal of Physical Chemistry C, 2018, 122, 18316-18328.	3.1	29
121	Glymeâ€“Sodium Bis(fluorosulfonyl)amide Complex Electrolytes for Sodium Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 16589-16599.	3.1	34
122	Ionic polymer actuators using poly(ionic liquid) electrolytes. European Polymer Journal, 2018, 106, 266-272.	5.4	38
123	Block copolymer self-assembly in ionic liquids. Physical Chemistry Chemical Physics, 2018, 20, 25123-25139.	2.8	34
124	Enhanced Electrochemical Stability of Molten Li Salt Hydrate Electrolytes by the Addition of Divalent Cations. Journal of Physical Chemistry C, 2018, 122, 20167-20175.	3.1	23
125	Ionic Liquids and Ionâ€“conductive Polymer Membranes. Membrane, 2018, 43, 93.	0.0	0
126	Boundary layer friction of solvate ionic liquids as a function of potential. Faraday Discussions, 2017, 199, 311-322.	3.2	30

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127	Application of Ionic Liquids to Energy Storage and Conversion Materials and Devices. Chemical Reviews, 2017, 117, 7190-7239.	47.7	1,214
128	Stability of Glyme Solvate Ionic Liquid as an Electrolyte for Rechargeable Liâ^'O₂ Batteries. ACS Applied Materials & Interfaces, 2017, 9, 6014-6021.	8.0	52
129	Effect of Anion in Glyme-based Electrolyte for Li-O₂ Batteries: Stability/Solubility of Discharge Intermediate. Chemistry Letters, 2017, 46, 573-576.	1.3	14
130	Oxygen Reduction Reaction in Highly Concentrated Electrolyte Solutions of Lithium Bis(trifluoromethanesulfonyl)amide/Dimethyl Sulfoxide. Journal of Physical Chemistry C, 2017, 121, 9162-9172.	3.1	70
131	Microscopic Structure of Solvated Poly(benzyl methacrylate) in an Imidazolium-Based Ionic Liquid: High-Energy X-ray Total Scattering and All-Atom MD Simulation Study. Macromolecules, 2017, 50, 4780-4786.	4.8	27
132	Sulfonated polyimide/ionic liquid composite membranes for carbon dioxide separation. Polymer Journal, 2017, 49, 671-676.	2.7	28
133	Tetra-PEG Network Containing Ionic Liquid Synthesized via Michael Addition Reaction and Its Application to Polymer Actuator. Macromolecules, 2017, 50, 2906-2915.	4.8	51
134	A Polymer Electrolyte Containing Solvate Ionic Liquid with Increased Mechanical Strength Formed by Self-assembly of ABA-type Ionomer Triblock Copolymer. Electrochimica Acta, 2017, 235, 287-294.	5.2	25
135	Exceptionally High Electric Double Layer Capacitances of Oligomeric Ionic Liquids. Journal of the American Chemical Society, 2017, 139, 16072-16075.	13.7	42
136	Three-Dimensionally Hierarchical Ni/Ni₃S₂/S Cathode for Lithiumâ€"Sulfur Battery. ACS Applied Materials & Interfaces, 2017, 9, 38477-38485.	8.0	60
137	Physicochemical Characterization of a Photoinduced Solâ€"Gel Transition of an Azobenzene-Containing ABA Triblock Copolymer/Ionic Liquid System. Macromolecules, 2017, 50, 6788-6795.	4.8	15
138	Thermosensitive Phase Separation Behavior of Poly(benzyl methacrylate)/Solvate Ionic Liquid Solutions. Langmuir, 2017, 33, 14105-14114.	3.5	17
139	Effect of the cation on the stability of cationâ€"glyme complexes and their interactions with the [TFSA]^{â^'} anion. Physical Chemistry Chemical Physics, 2017, 19, 18262-18272.	2.8	49
140	Micellization/Demicellization Self-Assembly Change of ABA Triblock Copolymers Induced by a Photoswitchable Ionic Liquid with a Small Molecular Trigger. Macromolecules, 2017, 50, 5377-5384.	4.8	14
141	Effect of Variation in Anion Type and Glyme Length on the Nanostructure of the Solvate Ionic Liquid/Graphite Interface as a Function of Potential. Journal of Physical Chemistry C, 2017, 121, 15728-15734.	3.1	14
142	Suppression of Water Absorption by Molecular Design of Ionic Liquid Electrolyte for Liâ€"Air Battery. Advanced Energy Materials, 2017, 7, 1601753.	19.5	27
143	A Design Approach to Lithium-Ion Battery Electrolyte Based on Diluted Solvate Ionic Liquids. Journal of the Electrochemical Society, 2017, 164, A6088-A6094.	2.9	45
144	Electrochemical Deposition and Dissolution of Lithium on a Carbon Fiber Composite Electrode in a Solvate Ionic Liquid. Electrochemistry, 2017, 85, 667-670.	1.4	7

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145	Long-cycle-life Lithium-sulfur Batteries with Lithium Solvate Ionic Liquids. Electrochemistry, 2017, 85, 680-682.	1.4	33
146	Amphoteric water as acid and base for protic ionic liquids and their electrochemical activity when used as fuel cell electrolytes. Faraday Discussions, 2017, 206, 353-364.	3.2	16
147	Li⁺ Local Structure in Liâ€“Tetraglyme Solvate Ionic Liquid Revealed by Neutron Total Scattering Experiments with the ^{6/7}Li Isotopic Substitution Technique. Journal of Physical Chemistry Letters, 2016, 7, 2832-2837.	4.6	44
148	Selfâ€Assembly of Polyether Diblock Copolymers in Water and Ionic Liquids. Macromolecular Rapid Communications, 2016, 37, 1207-1211.	3.9	11
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