

Kaoru Dokko

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6999741/publications.pdf>

Version: 2024-02-01

203
papers

14,054
citations

18436

62
h-index

22764

112
g-index

211
all docs

211
docs citations

211
times ranked

11021
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Ionic Liquids to Energy Storage and Conversion Materials and Devices. Chemical Reviews, 2017, 117, 7190-7239.	23.0	1,214
2	Oxidative-Stability Enhancement and Charge Transport Mechanism in Glyme-Lithium Salt Equimolar Complexes. Journal of the American Chemical Society, 2011, 133, 13121-13129.	6.6	663
3	Recent Advances in Electrolytes for Lithium-Sulfur Batteries. Advanced Energy Materials, 2015, 5, 1500117.	10.2	508
4	Solvate Ionic Liquid Electrolyte for Li-S Batteries. Journal of the Electrochemical Society, 2013, 160, A1304-A1310.	1.3	421
5	Glyme-Lithium Salt Equimolar Molten Mixtures: Concentrated Solutions or Solvate Ionic Liquids?. Journal of Physical Chemistry B, 2012, 116, 11323-11331.	1.2	348
6	Physicochemical Properties of Glyme-Li Salt Complexes as a New Family of Room-temperature Ionic Liquids. Chemistry Letters, 2010, 39, 753-755.	0.7	260
7	Ionic Liquid Electrolytes for Lithium-Sulfur Batteries. Journal of Physical Chemistry C, 2013, 117, 20531-20541.	1.5	259
8	Kinetic Characterization of Single Particles of LiCoO ₂ by AC Impedance and Potential Step Methods. Journal of the Electrochemical Society, 2001, 148, A422.	1.3	243
9	Criteria for solvate ionic liquids. Physical Chemistry Chemical Physics, 2014, 16, 8761.	1.3	240
10	Particle morphology, crystal orientation, and electrochemical reactivity of LiFePO ₄ synthesized by the hydrothermal method at 443 K. Journal of Materials Chemistry, 2007, 17, 4803.	6.7	230
11	Li ⁺ solvation in glyme-Li salt solvate ionic liquids. Physical Chemistry Chemical Physics, 2015, 17, 8248-8257.	1.3	222
12	Protic Ionic Liquids and Salts as Versatile Carbon Precursors. Journal of the American Chemical Society, 2014, 136, 1690-1693.	6.6	216
13	Reversibility of electrochemical reactions of sulfur supported on inverse opal carbon in glyme-Li salt molten complex electrolytes. Chemical Communications, 2011, 47, 8157.	2.2	205
14	Electrochemical impedance study of Li-ion insertion into mesocarbon microbead single particle electrode. Electrochimica Acta, 2001, 47, 885-890.	2.6	195
15	Chelate Effects in Glyme/Lithium Bis(trifluoromethanesulfonyl)amide Solvate Ionic Liquids. I. Stability of Solvate Cations and Correlation with Electrolyte Properties. Journal of Physical Chemistry B, 2014, 118, 5144-5153.	1.2	194
16	Solvent Effect of Room Temperature Ionic Liquids on Electrochemical Reactions in Lithium-Sulfur Batteries. Journal of Physical Chemistry C, 2013, 117, 4431-4440.	1.5	182
17	Change from Glyme Solutions to Quasi-ionic Liquids for Binary Mixtures Consisting of Lithium Bis(trifluoromethanesulfonyl)amide and Glymes. Journal of Physical Chemistry C, 2011, 115, 18384-18394.	1.5	174
18	Upper Limit of Nitrogen Content in Carbon Materials. Angewandte Chemie - International Edition, 2015, 54, 1302-1306.	7.2	168

#	ARTICLE	IF	CITATIONS
19	Anionic Effects on Solvate Ionic Liquid Electrolytes in Rechargeable Lithium-Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20509-20516.	1.5	166
20	Carbon materialization of ionic liquids: from solvents to materials. <i>Materials Horizons</i> , 2015, 2, 168-197.	6.4	165
21	Direct Evidence for Li Ion Hopping Conduction in Highly Concentrated Sulfolane-Based Liquid Electrolytes. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10736-10745.	1.2	165
22	Direct Synthesis of Nitrogen-Doped Carbon Materials from Protic Ionic Liquids and Protic Salts: Structural and Physicochemical Correlations between Precursor and Carbon. <i>Chemistry of Materials</i> , 2014, 26, 2915-2926.	3.2	156
23	Mechanism of Li Ion Desolvation at the Interface of Graphite Electrode and Glyme-Li Salt Solvate Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20246-20256.	1.5	155
24	Preparation of three dimensionally ordered macroporous carbon with mesoporous walls for electric double-layer capacitors. <i>Journal of Materials Chemistry</i> , 2008, 18, 1674.	6.7	154
25	New glyme-cyclic imide lithium salt complexes as thermally stable electrolytes for lithium batteries. <i>Journal of Power Sources</i> , 2010, 195, 6095-6100.	4.0	144
26	Porous ionic liquids: synthesis and application. <i>Chemical Science</i> , 2015, 6, 3684-3691.	3.7	143
27	Sulfolane-Based Highly Concentrated Electrolytes of Lithium Bis(trifluoromethanesulfonyl)amide: Ionic Transport, Li-Ion Coordination, and S Battery Performance. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14229-14238.	1.5	138
28	Chelate Effects in Glyme/Lithium Bis(trifluoromethanesulfonyl)amide Solvate Ionic Liquids, Part 2: Importance of Solvate-Structure Stability for Electrolytes of Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17362-17373.	1.5	137
29	Solvent Activity in Electrolyte Solutions Controls Electrochemical Reactions in Li-Ion and Li-Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3957-3970.	1.5	135
30	Synthesis of Li ⁺ Ion Conductive PEO-PSt Block Copolymer Electrolyte with Microphase Separation Structure. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A385.	2.2	134
31	Unusual Li ⁺ Ion Solvation Structure in Bis(fluorosulfonyl)amide Based Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2013, 117, 19314-19324.	1.5	133
32	Kinetic Study of Li-Ion Extraction and Insertion at LiMn ₂ O ₄ Single Particle Electrodes Using Potential Step and Impedance Methods. <i>Journal of the Electrochemical Society</i> , 2003, 150, A425.	1.3	129
33	In situ Raman spectroscopic studies of Li _x Mn ₂ O ₄ thin film cathode materials for lithium ion secondary batteries. <i>Journal of Materials Chemistry</i> , 2002, 12, 3688-3693.	6.7	118
34	Li ⁺ Solvation and Ionic Transport in Lithium Solvate Ionic Liquids Diluted by Molecular Solvents. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15792-15802.	1.5	114
35	Electrochemical investigation of LiNi _{0.5} Mn _{1.5} O ₄ thin film intercalation electrodes. <i>Electrochimica Acta</i> , 2002, 48, 79-84.	2.6	108
36	Formation of impurities on phospho-olivine LiFePO ₄ during hydrothermal synthesis. <i>Journal of Power Sources</i> , 2005, 146, 555-558.	4.0	104

#	ARTICLE	IF	CITATIONS
37	Electrochemical properties of LiFePO ₄ prepared via hydrothermal route. <i>Journal of Power Sources</i> , 2007, 165, 656-659.	4.0	104
38	Electrochemical impedance study of Li-ion insertion into mesocarbon microbead single particle electrode Part II. Disordered carbon. <i>Electrochimica Acta</i> , 2001, 47, 933-938.	2.6	101
39	In Situ Observation of LiNiO ₂ Single-Particle Fracture during Li-Ion Extraction and Insertion. <i>Electrochemical and Solid-State Letters</i> , 1999, 3, 125.	2.2	100
40	High rate discharge capability of single particle electrode of LiCoO ₂ . <i>Journal of Power Sources</i> , 2009, 189, 783-785.	4.0	97
41	Effect of Ionic Size on Solvate Stability of Glyme-Based Solvate Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1523-1534.	1.2	92
42	Structure and electron density analysis of electrochemically and chemically delithiated LiCoO ₂ single crystals. <i>Journal of Solid State Chemistry</i> , 2007, 180, 313-321.	1.4	90
43	Preparation and characterization of three dimensionally ordered macroporous Li ₄ Ti ₅ O ₁₂ anode for lithium batteries. <i>Electrochimica Acta</i> , 2007, 53, 79-82.	2.6	88
44	Thermal and Electrochemical Stability of Tetraglyme-Magnesium Bis(trifluoromethanesulfonyl)amide Complex: Electric Field Effect of Divalent Cation on Solvate Stability. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1353-1365.	1.5	88
45	Structures of [Li(glyme)] ⁺ complexes and their interactions with anions in equimolar mixtures of glymes and Li[TFSA]: analysis by molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 126-129.	1.3	87
46	From Ionic Liquids to Solvate Ionic Liquids: Challenges and Opportunities for Next Generation Battery Electrolytes. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1660-1682.	2.0	85
47	Li ⁺ Local Structure in Hydrofluoroether Diluted Li-Glyme Solvate Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3378-3387.	1.2	81
48	High-Rate Lithium Deintercalation from Lithiated Graphite Single-Particle Electrode. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8646-8650.	1.5	80
49	Intermolecular Interactions in Li ⁺ -glyme and Li ⁺ -glyme-TFSA ⁻ Complexes: Relationship with Physicochemical Properties of [Li(glyme)][TFSA] Ionic Liquids. <i>ChemPhysChem</i> , 2013, 14, 1993-2001.	1.0	79
50	Correlation between Battery Performance and Lithium Ion Diffusion in Glyme-Lithium Bis(trifluoromethanesulfonyl)amide Equimolar Complexes. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1005-A1012.	1.3	77
51	Li-ion hopping conduction in highly concentrated lithium bis(fluorosulfonyl)amide/dinitrile liquid electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9759-9768.	1.3	77
52	Protic-Salt-Derived Nitrogen/Sulfur-Codoped Mesoporous Carbon for the Oxygen Reduction Reaction and Supercapacitors. <i>ChemSusChem</i> , 2015, 8, 1608-1617.	3.6	74
53	Fabrication of all solid-state lithium-ion batteries with three-dimensionally ordered composite electrode consisting of Li _{0.35} La _{0.55} TiO ₃ and LiMn ₂ O ₄ . <i>Journal of Power Sources</i> , 2009, 189, 485-489.	4.0	73
54	Binary Protic Ionic Liquid Mixtures as a Proton Conductor: High Fuel Cell Reaction Activity and Facile Proton Transport. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27631-27639.	1.5	73

#	ARTICLE	IF	CITATIONS
55	One-pot pyrolysis of lithium sulfate and graphene nanoplatelet aggregates: in situ formed Li ₂ S/graphene composite for lithium-sulfur batteries. <i>Nanoscale</i> , 2015, 7, 14385-14392.	2.8	73
56	Dynamic behavior of surface film on LiCoO ₂ thin film electrode. <i>Journal of Power Sources</i> , 2008, 177, 184-193.	4.0	72
57	Three-dimensionally ordered macroporous Ni-Sn anode for lithium batteries. <i>Journal of Power Sources</i> , 2009, 189, 726-729.	4.0	72
58	Li ⁺ Ion Transport in Polymer Electrolytes Based on a Glyme-Li Salt Solvate Ionic Liquid. <i>Electrochimica Acta</i> , 2015, 175, 5-12.	2.6	70
59	Oxygen Reduction Reaction in Highly Concentrated Electrolyte Solutions of Lithium Bis(trifluoromethanesulfonyl)amide/Dimethyl Sulfoxide. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9162-9172.	1.5	70
60	Identification of Surface Impurities on LiFePO ₄ Particles Prepared by a Hydrothermal Process. <i>Journal of the Electrochemical Society</i> , 2005, 152, A2199.	1.3	69
61	Star-Shaped Polymer Electrolyte with Microphase Separation Structure for All-Solid-State Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2009, 156, A577.	1.3	68
62	Promising Cell Configuration for Next-Generation Energy Storage: Li ₂ S/Graphite Battery Enabled by a Solvate Ionic Liquid Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16053-16062.	4.0	67
63	Microvoltammetry for cathode materials at elevated temperatures: electrochemical stability of single particles. <i>Journal of Power Sources</i> , 2000, 90, 109-115.	4.0	64
64	Hydrogen-bonding supramolecular protic salt as an "all-in-one" precursor for nitrogen-doped mesoporous carbons for CO ₂ adsorption. <i>Nano Energy</i> , 2015, 13, 376-386.	8.2	64
65	Phase Diagrams and Solvate Structures of Binary Mixtures of Glymes and Na Salts. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15072-15085.	1.2	63
66	Electrochemical Reactivity of LiFePO ₄ Prepared by Hydrothermal Method. <i>Chemistry Letters</i> , 2006, 35, 338-339.	0.7	60
67	Physicochemical properties of pentaglyme-sodium bis(trifluoromethanesulfonyl)amide solvate ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11737-11746.	1.3	60
68	Three-Dimensionally Hierarchical Ni/Ni ₃ S ₂ /S Cathode for Lithium-Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38477-38485.	4.0	60
69	Polymer Electrolytes Containing Solvate Ionic Liquids: A New Approach To Achieve High Ionic Conductivity, Thermal Stability, and a Wide Potential Window. <i>Chemistry of Materials</i> , 2018, 30, 252-261.	3.2	60
70	All-solid-state micro lithium-ion batteries fabricated by using dry polymer electrolyte with micro-phase separation structure. <i>Electrochemistry Communications</i> , 2007, 9, 2013-2017.	2.3	58
71	Surface Layer Formation and Stripping Process on LiMn ₂ O ₄ and LiNi _{1/2} Mn _{3/2} O ₄ Thin Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2010, 157, A121.	1.3	58
72	Hydrothermal synthesis of LiFePO ₄ as a cathode material for lithium batteries. <i>Journal of Materials Science</i> , 2008, 43, 2138-2142.	1.7	57

#	ARTICLE	IF	CITATIONS
73	Synthesis of Spinel LiMn_2O_4 by a Hydrothermal Process in Supercritical Water with Heat-Treatment. <i>Journal of the Electrochemical Society</i> , 2005, 152, A391.	1.3	56
74	Three dimensionally ordered composite solid materials for all solid-state rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2005, 146, 86-89.	4.0	55
75	Solvent effects on Li ion transference number and dynamic ion correlations in glyme- and sulfolane-based molten Li salt solvates. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15214-15221.	1.3	53
76	Molecularly Tunable Polyanions for Single-Ion Conductors and Poly(solvate ionic liquids). <i>Chemistry of Materials</i> , 2021, 33, 524-534.	3.2	53
77	Incorporation of polyaniline into macropores of three-dimensionally ordered macroporous carbon electrode for electrochemical capacitors. <i>Journal of Power Sources</i> , 2009, 190, 596-600.	4.0	52
78	Effects of compatibility of polymer binders with solvate ionic liquid electrolytes on discharge and charge reactions of lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016, 307, 746-752.	4.0	52
79	Stability of Glyme Solvate Ionic Liquid as an Electrolyte for Rechargeable Li^+O_2 Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6014-6021.	4.0	52
80	Effects of Polysulfide Solubility and Li Ion Transport on Performance of Li^+S Batteries Using Sparingly Solvating Electrolytes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070531.	1.3	52
81	Electrochemical Studies of Spinel LiMn_2O_4 Films Prepared by Electrostatic Spray Deposition. <i>Bulletin of the Chemical Society of Japan</i> , 1998, 71, 2011-2015.	2.0	51
82	Electrolyte Composition in Li/O_2 Batteries with LiI Redox Mediators: Solvation Effects on Redox Potentials and Implications for Redox Shuttling. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1522-1534.	1.5	51
83	In situ FT-IR measurement for electrochemical oxidation of electrolyte with ethylene carbonate and diethyl carbonate on cathode active material used in rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2005, 146, 360-364.	4.0	50
84	Limiting current density in bis(trifluoromethylsulfonyl)amide-based ionic liquid for lithium batteries. <i>Journal of Power Sources</i> , 2011, 196, 2264-2268.	4.0	50
85	In Situ Raman Spectroscopy of Single Microparticle Li^+ Intercalation Electrodes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12549-12554.	1.2	49
86	Li^+ ion diffusion in LiMn_2O_4 thin film prepared by PVP sol-gel method. <i>Journal of Power Sources</i> , 2006, 157, 471-476.	4.0	49
87	Effect of the cation on the stability of cation-glyme complexes and their interactions with the [TfSA] ⁻ anion. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18262-18272.	1.3	49
88	Sol-gel fabrication of lithium-ion microarray battery. <i>Electrochemistry Communications</i> , 2007, 9, 857-862.	2.3	48
89	Electrochemical properties of protic ionic liquids: correlation between open circuit potential for H_2/O_2 cells under non-humidified conditions and pK_a . <i>RSC Advances</i> , 2013, 3, 4141.	1.7	45
90	A Design Approach to Lithium-Ion Battery Electrolyte Based on Diluted Solvate Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6088-A6094.	1.3	45

#	ARTICLE	IF	CITATIONS
91	Li ⁺ Local Structure in Tetraglyme Solvate Ionic Liquid Revealed by Neutron Total Scattering Experiments with the ⁶ Li Isotopic Substitution Technique. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2832-2837.	2.1	44
92	Investigation on Electrochemical Interface between Li ₄ Ti ₅ O ₁₂ and Li _{1+x} Al _x Ti _{2-x} (PO ₄) ₃ NASICON-Type Solid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2005, 152, A2138.	1.3	43
93	Solvate Ionic Liquids for Li, Na, K, and Mg Batteries. <i>Chemical Record</i> , 2019, 19, 708-722.	2.9	42
94	Raman spectro-electrochemistry of LiCoMn _{2-x} O ₄ thin film electrodes for 5 V lithium batteries. <i>Electrochemistry Communications</i> , 2004, 6, 384-388.	2.3	41
95	Composite electrode composed of bimodal porous carbon and polypyrrole for electrochemical capacitors. <i>Journal of Power Sources</i> , 2008, 185, 1589-1593.	4.0	41
96	Graphite-Lithium Sulfide Battery with a Single-Phase Sparingly Solvating Electrolyte. <i>ACS Energy Letters</i> , 2020, 5, 1-7.	8.8	41
97	Hydrothermal Synthesis of Carbon-Coated LiFePO ₄ and Its Application to Lithium Polymer Battery. <i>Journal of the Electrochemical Society</i> , 2008, 155, A909.	1.3	40
98	High-Speed voltammetry of Mn-doped LiCoO ₂ using a microelectrode technique. <i>Journal of Solid State Electrochemistry</i> , 2000, 4, 205-209.	1.2	39
99	Preparation of three dimensionally ordered macroporous Li _{0.35} La _{0.55} TiO ₃ by colloidal crystal templating process. <i>Solid State Ionics</i> , 2005, 176, 2345-2348.	1.3	39
100	EQCM Measurement of Deposition and Dissolution of Lithium in Glyme-Li Salt Molten Complex. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1529-A1533.	1.3	38
101	Comparison of Electrochemical Behavior of LiCoO ₂ Thin Films Prepared by Sol-Gel and Sputtering Processes. <i>Journal of the Electrochemical Society</i> , 2005, 152, A2229.	1.3	37
102	Preparation of LiMn ₂ O ₄ thin-film electrode on Li _{1+x} Al _x Ti _{2-x} (PO ₄) ₃ NASICON-type solid electrolyte. <i>Journal of Power Sources</i> , 2007, 174, 1100-1103.	4.0	37
103	Electrochemical Studies of Li-Ion Extraction and Insertion of LiMn ₂ O ₄ Single Crystal. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, A151.	2.2	36
104	Three-dimensionally ordered composite electrode between LiMn ₂ O ₄ and Li _{1.5} Al _{0.5} Ti _{1.5} (PO ₄) ₃ . <i>Ionics</i> , 2008, 14, 173-177.	1.2	36
105	Lithiation and Delithiation of Silicon Oxycarbide Single Particles with a Unique Microstructure. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2318-2322.	4.0	36
106	One-step, template-free synthesis of highly porous nitrogen/sulfur-codoped carbons from a single protic salt and their application to CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17849-17857.	5.2	36
107	Ionic transport in highly concentrated lithium bis(fluorosulfonyl)amide electrolytes with keto ester solvents: structural implications for ion hopping conduction in liquid electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5097-5105.	1.3	35
108	Glyme-Sodium Bis(fluorosulfonyl)amide Complex Electrolytes for Sodium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16589-16599.	1.5	34

#	ARTICLE	IF	CITATIONS
109	Preparation of Li ₄ Ti ₅ O ₁₂ spherical particles for rechargeable lithium batteries. Journal of the European Ceramic Society, 2006, 26, 577-581.	2.8	33
110	Nitrogen-Doped Inverse Opal Carbons Derived from an Ionic Liquid Precursor for the Oxygen Reduction Reaction. ChemElectroChem, 2015, 2, 1080-1085.	1.7	33
111	Simple combination of a protic salt and an iron halide: precursor for a Fe, N and S co-doped catalyst for the oxygen reduction reaction in alkaline and acidic media. Journal of Materials Chemistry A, 2018, 6, 1138-1149.	5.2	33
112	Solvate electrolytes for Li and Na batteries: structures, transport properties, and electrochemistry. Physical Chemistry Chemical Physics, 2021, 23, 21419-21436.	1.3	32
113	Recent investigations on thin films and single particles of transition metal oxides for lithium batteries. Journal of Power Sources, 2001, 97-98, 518-524.	4.0	31
114	Favorable combination of positive and negative electrode materials with glyme-Li salt complex electrolytes in lithium ion batteries. Journal of Power Sources, 2011, 196, 3874-3880.	4.0	30
115	Surface layer formation of LiCoO ₂ thin film electrodes in non-aqueous electrolyte containing lithium bis(oxalate)borate. Journal of Power Sources, 2012, 210, 60-66.	4.0	30
116	Dissociation and Diffusion of Glyme-Sodium Bis(trifluoromethanesulfonyl)amide Complexes in Hydrofluoroether-Based Electrolytes for Sodium Batteries. Journal of Physical Chemistry C, 2016, 120, 23339-23350.	1.5	30
117	Anion effects on Li ion transference number and dynamic ion correlations in glyme-Li salt equimolar mixtures. Physical Chemistry Chemical Physics, 2021, 23, 2622-2629.	1.3	30
118	Three-dimensionally ordered macroporous carbons having walls composed of hollow mesosized spheres. Chemical Communications, 2006, , 4099.	2.2	29
119	Electric Double-Layer Capacitance of Inverse Opal Carbon Prepared Through Carbonization of Poly(Furfuryl Alcohol) in Contact with Polymer Gel Electrolyte Containing Ionic Liquid. Polymers for Advanced Technologies, 2011, 22, 1254-1260.	1.6	29
120	Solvate Ionic Liquid, [Li(triglyme)1][NTf ₂], as Electrolyte for Rechargeable Li-Air Battery: Discharge Depth and Reversibility. Chemistry Letters, 2013, 42, 1053-1055.	0.7	29
121	Tuning NaO ₂ Cube Sizes by Controlling Na ⁺ and Solvent Activity in Na-O ₂ Batteries. Journal of Physical Chemistry C, 2018, 122, 18316-18328.	1.5	29
122	Structural Effects of Solvents on Li-Ion-Hopping Conduction in Highly Concentrated LiBF ₄ /Sulfone Solutions. Journal of Physical Chemistry B, 2021, 125, 6600-6608.	1.2	28
123	Bimodal Porous Carbon as a Negative Electrode Material for Lithium-Ion Capacitors. Electrochemistry, 2007, 75, 635-640.	0.6	27
124	Pentaglyme-K salt binary mixtures: phase behavior, solvate structures, and physicochemical properties. Physical Chemistry Chemical Physics, 2015, 17, 2838-2849.	1.3	27
125	Si/Li ₂ S Battery with Solvate Ionic Liquid Electrolyte. Electrochemistry, 2016, 84, 887-890.	0.6	27
126	Suppression of Water Absorption by Molecular Design of Ionic Liquid Electrolyte for Li-Air Battery. Advanced Energy Materials, 2017, 7, 1601753.	10.2	27

#	ARTICLE	IF	CITATIONS
127	LiMnPO ₄ Nanoparticles Prepared through the Reaction between Li ₃ PO ₄ and Molten Aqua-complex of MnSO ₄ . Journal of the Electrochemical Society, 2011, 158, A1275.	1.3	26
128	In Situ Raman Spectroelectrochemistry of Oxygen Species on Gold Electrodes in High Temperature Molten Carbonate Melts. Journal of the Electrochemical Society, 2004, 151, A2042.	1.3	25
129	In Situ Raman Microscopy of a Single Graphite Microflake Electrode in a Li ⁺ -Containing Electrolyte. Journal of Physical Chemistry B, 2004, 108, 4789-4793.	1.2	25
130	Optimization of Pore Structure of Cathodic Carbon Supports for Solvate Ionic Liquid Electrolytes Based Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 27803-27813.	4.0	24
131	Understanding the Reductive Decomposition of Highly Concentrated Li Salt/Sulfolane Electrolytes during Li Deposition and Dissolution. ACS Applied Energy Materials, 2021, 4, 1851-1859.	2.5	24
132	Protic ionic liquids with primary alkylamine-derived cations: the dominance of hydrogen bonding on observed physicochemical properties. RSC Advances, 2018, 8, 9790-9794.	1.7	23
133	Enhanced Electrochemical Stability of Molten Li Salt Hydrate Electrolytes by the Addition of Divalent Cations. Journal of Physical Chemistry C, 2018, 122, 20167-20175.	1.5	23
134	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.	1.5	23
135	Synthesis, Crystal Structure, and Magnetic Property of Delithiated Li _x MnO ₂ (x < 0.1) Single Crystals: A Novel Disordered Rocksalt-Type Manganese Dioxide. Chemistry of Materials, 2003, 15, 2984-2990.	3.2	21
136	Charge/discharge performances of glyme-lithium salt equimolar complex electrolyte for lithium secondary batteries. Journal of Power Sources, 2013, 243, 323-327.	4.0	21
137	Liquid Structures and Transport Properties of Lithium Bis(fluorosulfonyl)amide/Glyme Solvate Ionic Liquids for Lithium Batteries. Australian Journal of Chemistry, 2019, 72, 70.	0.5	21
138	Highly concentrated LiN(SO ₂ CF ₃) ₂ /dinitrile electrolytes: Liquid structures, transport properties, and electrochemistry. Journal of Chemical Physics, 2020, 152, 104502.	1.2	20
139	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.	1.3	19
140	Effects of non-equimolar lithium salt glyme solvate ionic liquid on the control of interfacial degradation in lithium secondary batteries. RSC Advances, 2016, 6, 33043-33047.	1.7	18
141	Eutectic Electrolytes Composed of LiN(SO ₂ F) ₂ and Sulfones for Li-Ion Batteries. Journal of Physical Chemistry C, 2022, 126, 10024-10034.	1.5	18
142	Polyaniline as a Functional Binder for LiFePO ₄ Cathodes in Lithium Batteries. Chemistry Letters, 2011, 40, 828-830.	0.7	17
143	Lithium-tin Alloy/Sulfur Battery with a Solvate Ionic Liquid Electrolyte. Electrochemistry, 2015, 83, 914-917.	0.6	17
144	Structures and Electrochemistry of γ -Butyrolactone Solvates of Na Salts. Journal of Physical Chemistry C, 2020, 124, 15800-15811.	1.5	17

#	ARTICLE	IF	CITATIONS
145	Structure and Electron Density Analysis of Lithium Manganese Oxides by Single-crystal X-ray Diffraction. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 1483-1490.	0.7	16
146	Preparation of micro-dot electrodes of LiCoO ₂ and Li ₄ Ti ₅ O ₁₂ for lithium micro-batteries. <i>Electrochimica Acta</i> , 2005, 51, 966-971.	2.6	16
147	Speciation Analysis and Thermodynamic Criteria of Solvated Ionic Liquids: Ionic Liquids or Superconcentrated Solutions?. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4517-4523.	2.1	16
148	(Keynote) Protic Ionic Liquids Based on a Super-Strong Acid: Bulk and Electrochemical Properties. <i>ECS Transactions</i> , 2013, 50, 285-291.	0.3	15
149	Effects of Carbon Electrode Materials on Performance of Ionic Polymer Actuators Having Electric Double-Layer Capacitor Structure. <i>Electrochemistry</i> , 2013, 81, 849-852.	0.6	15
150	Towards practical cells: combined use of titanium black as a cathode additive and sparingly solvating electrolyte for high-energy-density lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1821-1831.	2.5	15
151	Limiting Current Density in Ionic Liquid Electrolyte for Lithium Batteries. <i>Electrochemistry</i> , 2010, 78, 349-352.	0.6	14
152	Effect of Anion in Glyme-based Electrolyte for Li-O ₂ Batteries: Stability/Solubility of Discharge Intermediate. <i>Chemistry Letters</i> , 2017, 46, 573-576.	0.7	14
153	High Resolution Cyclic Voltammograms of LiMn _{2-x} Ni _x O ₄ with a Microelectrode Technique. <i>Electrochemistry</i> , 1998, 66, 1188-1193.	0.3	13
154	Thermodynamic Effect of Anion Activity on Electrochemical Reactions Involving Li ⁺ Ions in Room-Temperature Ionic Liquids. <i>ChemElectroChem</i> , 2019, 6, 4444-4449.	1.7	12
155	Excellent dispersibility of single-walled carbon nanotubes in highly concentrated electrolytes and application to gel electrode for Li-S batteries. <i>Electrochemistry Communications</i> , 2019, 109, 106598.	2.3	12
156	Effects of Sulfur Loading, Cathode Porosity, and Electrolyte Amount on Li-S Battery Performance with Solvate Ionic Liquid Electrolyte. <i>Electrochemistry</i> , 2019, 87, 254-259.	0.6	11
157	Thermodynamic aspect of sulfur, polysulfide anion and lithium polysulfide: plausible reaction path during discharge of lithium-sulfur battery. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6832-6840.	1.3	11
158	Dynamic Chelate Effect on the Li ⁺ -Ion Conduction in Solvate Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30228-30233.	1.5	10
159	Rheological and Ionic Transport Properties of Nanocomposite Electrolytes Based on Protic Ionic Liquids and Silica Nanoparticles. <i>Langmuir</i> , 2020, 36, 148-158.	1.6	10
160	Microvoltammetric Studies on Single Particle Voltammetry of LiNiO ₂ and LiCoO ₂ . In situ Observation of Particle Splitting during Li-ion Extraction/Insertion. <i>Electrochemistry</i> , 1997, 65, 954-962.	0.3	10
161	Li ⁺ transference number and dynamic ion correlations in glyme-Li salt solvate ionic liquids diluted with molecular solvents. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 14269-14276.	1.3	10
162	Local Structure of Li ⁺ in Superconcentrated Aqueous LiTFSa Solutions. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7477-7484.	1.2	9

#	ARTICLE	IF	CITATIONS
163	Rate Performance of LiCoO ₂ ; Half-cells Using Highly Concentrated Lithium Bis(fluorosulfonyl)amide Electrolytes and Their Relevance to Transport Properties. <i>Electrochemistry</i> , 2021, 89, 389-394.	0.6	8
164	Li-Ion Transport and Solvation of a Li Salt of Weakly Coordinating Polyanions in Ethylene Carbonate/Dimethyl Carbonate Mixtures. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18324-18334.	4.0	8
165	Transport Properties of Flexible Composite Electrolytes Composed of Li _{1.5} Al _{0.5} Ti _{1.5} (PO ₄) ₃ and a Poly(vinylidene fluoride-co-hexafluoropropylene) Gel Containing a Highly Concentrated Li[N(SO ₂ CF ₃) ₂]/Sulfolane Electrolyte. <i>ACS Omega</i> , 2021, 6, 16187-16193.	1.6	7
166	Microvoltammetry of lithium nickel oxide single particle: deterioration of the redox behavior by water molecules. <i>Electrochemistry Communications</i> , 2000, 2, 717-719.	2.3	6
167	Effects of fluoroethylene carbonate addition to Li-glyme solvate ionic liquids on their ionic transport properties and Si composite electrode performance. <i>Electrochimica Acta</i> , 2020, 353, 136559.	2.6	6
168	Design of Polymer Network and Li ⁺ Solvation Enables Thermally and Oxidatively Stable, Mechanically Reliable, and Highly Conductive Polymer Gel Electrolyte for Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090538.	1.3	6
169	Importance of Mass Transport in High Energy Density Lithium-Sulfur Batteries Under Lean Electrolyte Conditions. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	6
170	Gas Phase Hydrogen Electrooxidation Using an Integrated Ultramicroelectrode. <i>Chemistry Letters</i> , 2001, 30, 508-509.	0.7	5
171	Glyme-Li salt equimolar molten solvates with iodide/triiodide redox anions. <i>RSC Advances</i> , 2019, 9, 22668-22675.	1.7	5
172	Electrochemical Properties of Poly(vinylidene fluoride-co-hexafluoropropylene) Gel Electrolytes with High-Concentration Li Salt/Sulfolane for Lithium Batteries. <i>Electrochemistry</i> , 2021, 89, 567-572.	0.6	5
173	Fabrication of Thin Film Electrodes of LiM _x Mn _{2-x} O ₄ (M = Ni, Co) for 5 Volt Lithium Batteries. <i>Electrochemistry</i> , 2003, 71, 1061-1063.	0.6	5
174	Effects of Li ion-solvent interaction on ionic transport and electrochemical properties in highly concentrated cyclic carbonate electrolytes. <i>Journal of Non-Crystalline Solids: X</i> , 2021, 11-12, 100071.	0.5	5
175	Rapid evaluation of charge/discharge properties for lithium manganese oxide particles at elevated temperatures. <i>Journal of Solid State Electrochemistry</i> , 2002, 6, 188-193.	1.2	4
176	Micro-patterning of LiMn ₂ O ₄ Electrode Using Sol-Gel Process for Lithium Micro-batteries. <i>Chemistry Letters</i> , 2005, 34, 984-985.	0.7	4
177	Effects of Anion on Liquid Structures of Ionic Liquids at Graphene Electrode Interface Analyzed by Molecular Dynamics Simulations. <i>Batteries and Supercaps</i> , 2020, 3, 658-667.	2.4	4
178	Studies on Electrochemical Oxidation of Propylene Carbonate Electrolyte on LiMn ₂ O ₄ Thin Film Electrode. <i>Electrochemistry</i> , 2005, 73, 54-59.	0.6	4
179	Preparation of Three-dimensionally Ordered Macroporous Li _{1.5} Al _{0.5} Ti _{1.5} (PO ₄) ₃ by Colloidal Crystal Templating Method. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2006, 53, 856-859.	0.1	3
180	Protic Ionic Liquids Based on a Super-Strong Base: Correlation between Physicochemical Properties and pK _a . <i>Materials Research Society Symposia Proceedings</i> , 2012, 1473, 1.	0.1	3

#	ARTICLE	IF	CITATIONS
181	Effects of Lithium Salt Concentration in Ionic Liquid Electrolytes on Battery Performance of $\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2/\text{Graphite}$ Cells. <i>Electrochemistry</i> , 2021, 89, 455-460.		
182	Highly Concentrated $\text{NaN}(\text{SO}_2\text{F})_3$ -Methylsulfolane Electrolyte Solution Showing High Na-Ion Transference Number under Anion-Blocking Conditions. <i>Electrochemistry</i> , 2021, 89, 590-596.	0.6	3
183	<i>In Situ</i> Assessment of LiMn_2O_4 Degradation During Prolonged Exposure in Carbonate-Based Electrolytes. <i>Electrochemistry</i> , 2003, 71, 1168-1171.	0.6	3
184	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. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020534.	1.3	3
185	Electrochemical Pretreatment of Solid-Electrolyte Interphase Formation for Enhanced $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Anode Performance in a Molten Li^+Ca Binary Salt Hydrate Electrolyte. <i>ChemElectroChem</i> , 2022, 9, .	1.7	3
186	$\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ -Hybridized Gel Polymer Cathode and Gel Polymer Electrolyte Containing a Sulfolane-Based Highly Concentrated Electrolyte for the Fabrication of a 5 V Class of Flexible Lithium Batteries. <i>ACS Omega</i> , 0, .	1.6	3
187	Enhancement on Proton Conductivity of Three-Dimensionally Ordered Macroporous Silica Membrane by Surface Sulfonation. <i>Key Engineering Materials</i> , 2006, 301, 143-146.	0.4	2
188	NANOCOMPOSITE ELECTRODES CONSISTING OF 3DOM CARBON WITH BIMODAL POROUS STRUCTURE AND CONDUCTING POLYMERS FOR ELECTROCHEMICAL CAPACITORS. <i>Functional Materials Letters</i> , 2009, 02, 19-22.	0.7	2
189	Solvate Ionic Liquids and Their Application to Lithium Batteries: Glyme-Lithium Bis(fluorosulfonyl)amide Equimolar Complexes. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1473, 20.	0.1	2
190	Study on Fundamental Properties of Solvate Electrolytes and Their Application in Batteries. <i>Electrochemistry</i> , 2022, .	0.6	2
191	HYDROTHERMAL SYNTHESIS OF LiFePO_4 FOR RECHARGEABLE LITHIUM BATTERIES. <i>Phosphorus Research Bulletin</i> , 2005, 19, 152-157.	0.1	1
192	PREPARATION OF TiO_2 THIN-FILM ELECTRODE ON $\text{Li}_{1+x}\text{Al}_x\text{Ti}_{2-x}(\text{PO}_4)_3$ SOLID ELECTROLYTE. <i>Phosphorus Research Bulletin</i> , 2005, 19, 130-135.	0.1	1
193	Preparation of Three Dimensionally Ordered Macroporous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Electrode. <i>Key Engineering Materials</i> , 2006, 320, 263-266.	0.4	1
194	Preparation of Three Dimensionally Ordered Macroporous LiCoO_2 Cathode for Lithium Batteries. <i>Key Engineering Materials</i> , 2007, 350, 195-198.	0.4	1
195	Electrochemical Characteristics of Porous Electrode Consisting of Spherical LiMn_2O_4 Particles. <i>Electrochemistry</i> , 2009, 77, 309-314.	0.6	1
196	Room-Temperature Ionic Liquid Electrolytes for Alkali Metal-Sulfur Batteries. <i>Hyomen Kagaku</i> , 2013, 34, 309-314.	0.0	1
197	Molten Li Salt Solvate-Silica Nanoparticle Composite Electrolytes with Tailored Rheological Properties. <i>Electrochemistry</i> , 2020, 88, 174-177.	0.6	1
198	Synthesis, Crystal Structure, and Magnetic Property of Delithiated Li_xMnO_2 ($x < 0.1$) Single Crystals: A Novel Disordered Rocksalt-Type Manganese Dioxide.. <i>ChemInform</i> , 2003, 34, no.	0.1	0

#	ARTICLE	IF	CITATIONS
199	Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2003.		
200	Preparation of Lithium Ion Conductive Li _{4.2} Al _{0.2} Si _{0.8} O ₄ Thin Films Using Sol-Gel Process. Key Engineering Materials, 2006, 301, 91-94.	0.4	0
201	Electrochemistry, 2008, 76, 691-695.	0.6	0
202	S8 Cathode. , 2021, , 347-355.		0
203	Electrochemical Pretreatment of Solid Electrolyte Interphase Formation for Enhanced Li ₄ Ti ₅ O ₁₂ Anode Performance in a Molten Li-Ca Binary Salt Hydrate Electrolyte. ChemElectroChem, 0, , .	1.7	0