

Advances and issues in developing salt-concentrated brines

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Design of S-Substituted Fluorinated Aryl Sulfonamide-Tagged (S-FAST) Anions To Enable New Solvate Ionic Liquids for Battery Applications. <i>Chemistry of Materials</i> , 2019, 31, 7558-7564.	3.2	11
2	Highly Reversible Lithium-Metal Anode and Lithium-Sulfur Batteries Enabled by an Intrinsic Safe Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33419-33427.	4.0	38
3	A small-molecule organic cathode with fast charge/discharge capability for K-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20127-20131.	5.2	51
4	Concentrated LiODFB Electrolyte for Lithium Metal Batteries. <i>Frontiers in Chemistry</i> , 2019, 7, 494.	1.8	12
5	Concentrated Ionic-Liquid-Based Electrolytes for High-Voltage Lithium Batteries with Improved Performance at Room Temperature. <i>ChemSusChem</i> , 2019, 12, 4185-4193.	3.6	57
6	Recent research progresses in ether- and ester-based electrolytes for sodium-ion batteries. <i>Informa Mater. Rev.</i> , 2019, 1, 376-389.	8.5	183
7	Lipophilic Additives for Highly Concentrated Electrolytes in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2570-A2573.	1.3	4
8	Clyme-Li salt equimolar molten solvates with iodide/triiodide redox anions. <i>RSC Advances</i> , 2019, 9, 22668-22675.	1.7	5
9	A low-cost and dendrite-free rechargeable aluminium-ion battery with superior performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17420-17425.	5.2	111
10	Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range. <i>ACS Nano</i> , 2019, 13, 12567-12576.	7.3	66
11	Formation of a Solid Electrolyte Interphase in Hydrate-Melt Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45554-45560.	4.0	42
12	Transport in Superconcentrated LiPF_6 and LiBF_4 /Propylene Carbonate Electrolytes. <i>ACS Energy Letters</i> , 2019, 4, 2843-2849.	8.8	71
13	A Comprehensive Analysis of the Interphasial and Structural Evolution over Long-Term Cycling of Ultrahigh-Nickel Cathodes in Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1902731.	10.2	131
14	Fluorinated Solid-Electrolyte Interphase in High-Voltage Lithium Metal Batteries. <i>Joule</i> , 2019, 3, 2647-2661.	11.7	432
15	Nonflammable Electrolytes for Lithium Ion Batteries Enabled by Ultraconformal Passivation Interphases. <i>ACS Energy Letters</i> , 2019, 4, 2529-2534.	8.8	112
16	Salt-concentrated electrolytes for graphite anode in potassium ion battery. <i>Solid State Ionics</i> , 2019, 341, 115050.	1.3	33
17	Microscopic Origin of the Solid Electrolyte Interphase Formation in Fire-Extinguishing Electrolyte: Formation of Pure Inorganic Layer in High Salt Concentration. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5949-5955.	2.1	15
18	Alloy Anodes for Rechargeable Alkali-Metal Batteries: Progress and Challenge. , 2019, 1, 217-229.		135

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19	Long-Term Stable Lithium Metal Anode in Highly Concentrated Sulfolane-Based Electrolytes with Ultrafine Porous Polyimide Separator. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25833-25843.	4.0	72
20	Understanding the cathode electrolyte interface formation in aqueous electrolyte by scanning electrochemical microscopy. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12993-12996.	5.2	49
21	Understanding the Impact of a Nonfluorinated Ether-Based Electrolyte on Li-S Battery. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3653-A3659.	1.3	6
22	Correlation between Microstructure and Potassium Storage Behavior in Reduced Graphene Oxide Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45578-45585.	4.0	34
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24	Zinc anode-compatible in-situ solid electrolyte interphase via cation solvation modulation. <i>Nature Communications</i> , 2019, 10, 5374.	5.8	573
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26	Formulation of Blended Lithium Salt Electrolytes for Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3400-3415.	7.2	129
27	Water-in-salt electrolytes: An interfacial perspective. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 47, 99-110.	3.4	44
28	Interlayer separation in hydrogen titanates enables electrochemical proton intercalation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 412-421.	5.2	28
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30	Covalent organic framework-based ultrathin crystalline porous film: manipulating uniformity of fluoride distribution for stabilizing lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3459-3467.	5.2	75
31	An "interaction-mediating" strategy towards enhanced solubility and redox properties of organics for aqueous flow batteries. <i>Nano Energy</i> , 2020, 69, 104464.	8.2	29
32	Emerging rechargeable aqueous aluminum ion battery: Status, challenges, and outlooks. <i>Nano Materials Science</i> , 2020, 2, 248-263.	3.9	110
33	<i>In situ</i> observation of the potential-dependent structure of an electrolyte/electrode interface by heterodyne-detected vibrational sum frequency generation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2580-2589.	1.3	23
34	An Intrinsically Nonflammable Electrolyte for High-Performance Potassium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3638-3644.	7.2	211
35	Mechanistic Insights on Concentrated Lithium Salt/Nitroalkane Electrolyte Based on Analogy with Fluorinated Alcohols. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 570-574.	1.2	24
36	Highly Concentrated LiTFSI-EC Electrolytes for Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 200-207.	2.5	67

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37	Concentrated Battery Electrolytes: Developing New Functions by Manipulating the Coordination States. Bulletin of the Chemical Society of Japan, 2020, 93, 109-118.	2.0	29
38	Highly Concentrated KTFSI-Glyme Electrolytes for K/Bilayered V_2O_5 Batteries, Batteries and Supercaps, 2020, 3, 261-267.	2.4	25
39	Emerging interfacial chemistry of graphite anodes in lithium-ion batteries. Chemical Communications, 2020, 56, 14570-14584.	2.2	79
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43	Advances and issues in developing metal-iodine batteries. Materials Today Energy, 2020, 18, 100534.	2.5	35
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49	Mobility-viscosity decoupling and cation transport in water-in-salt lithium electrolytes. Electrochimica Acta, 2020, 359, 136915.	2.6	18
50	Highly salt-concentrated electrolyte comprising lithium bis(fluorosulfonyl)imide and 1,3-dioxolane-based ether solvents for 4-V-class rechargeable lithium metal cell. Electrochimica Acta, 2020, 363, 137198.	2.6	17
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80	Ion transport in small-molecule and polymer electrolytes. <i>Journal of Chemical Physics</i> , 2020, 153, 100903.	1.2	53
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82	Modulating electrolyte structure for ultralow temperature aqueous zinc batteries. <i>Nature Communications</i> , 2020, 11, 4463.	5.8	431
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87	Probing the electrode-solution interfaces in rechargeable batteries by sum-frequency generation spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 170902.	1.2	27
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92	Phosphorene as Cathode Material for High-Voltage, Anti-Self-Discharge Zinc Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2020, 10, 2001024.	10.2	149
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95	Two-Plateau Li-Se Chemistry for High Volumetric Capacity Se Cathodes. <i>Angewandte Chemie</i> , 2020, 132, 14012-14018.	1.6	9
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128	A cyclic phosphate-based battery electrolyte for high voltage and safe operation. <i>Nature Energy</i> , 2020, 5, 291-298.	19.8	250
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146	Thermodynamic analysis and kinetic optimization of high-energy batteries based on multi-electron reactions. National Science Review, 2020, 7, 1367-1386.	4.6	31
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763	Revealing Structural Insights of Solid Electrolyte Interphase in High-Concentrated Non-Flammable Electrolyte for Li Metal Batteries by Cryo-TEM. <i>Small</i> , 2023, 19, .	5.2	4
764	Hydrodynamic interactions in ion transport—Theory and simulation. <i>Journal of Chemical Physics</i> , 2023, 158, .	1.2	0
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766	Electrolyte science, what's next?. , 2023, 1, 100014.		2
767	Anion type-dependent confinement effect on glass transitions of solutions of LiTFSI and LiFSI. <i>Chinese Physics B</i> , , .	0.7	0
768	Unveiling the Critical Role of Ion Coordination Configuration of Ether Electrolytes for High Voltage Lithium Metal Batteries. <i>Angewandte Chemie</i> , , .	1.6	0
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770	Competitive Solvation-Induced Interphases Enable Highly Reversible Zn Anodes. <i>ACS Energy Letters</i> , 2023, 8, 2086-2096.	8.8	34
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773	Ultrarapid Nanomanufacturing of High-Quality Bimetallic Anode Library toward Stable Potassium-Ion Storage. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	1
774	Multifunctional solvent molecule design enables high-voltage Li-ion batteries. <i>Nature Communications</i> , 2023, 14, .	5.8	32
775	Highly Oxidation-Resistant Ether Gel Electrolytes for 4.7 V High-Safety Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	7
776	Novel nanoarchitecture of 3D ion transfer channel containing nanocomposite solid polymer electrolyte membrane based on holey graphene oxide and chitosan biopolymer. <i>Chemical Engineering Journal</i> , 2023, 466, 143159.	6.6	5
806	Recent advances of structural/interfacial engineering for Na metal anode protection in liquid/solid-state electrolytes. <i>Nanoscale</i> , , .	2.8	1
811	Recycling Hazardous and Valuable Electrolyte in Spent Lithium-Ion Batteries: Urgency, Progress, Challenge, and Viable Approach. <i>Chemical Reviews</i> , 2023, 123, 8718-8735.	23.0	12
835	Recent progress in nonflammable electrolytes and cell design for safe Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2023, 11, 15576-15599.	5.2	3

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871	Electrolyte designs for safer lithium-ion and lithium-metal batteries. <i>Journal of Materials Chemistry A</i> , 0, , .	5.2	0
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911	Trend of Developing Aqueous Liquid and Gel Electrolytes for Sustainable, Safe, and High-Performance Li-Ion Batteries. <i>Nano-Micro Letters</i> , 2024, 16, .	14.4	0
916	Engineering Strategies for Suppressing the Shuttle Effect in Lithium-Sulfur Batteries. <i>Nano-Micro Letters</i> , 2024, 16, .	14.4	7
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1008	High-concentration Electrolytes for Rechargeable Batteries. , 2024, , 293-328.		0
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