

Before Li Ion Batteries

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Enabling High Performance Potassium-Based Dual-Graphite Battery Cells by Highly Concentrated Electrolytes. <i>Batteries and Supercaps</i> , 2019, 2, 992-1006.	2.4	39
2	Identifying the components of the solid-electrolyte interphase in Li-ion batteries. <i>Nature Chemistry</i> , 2019, 11, 789-796.	6.6	331
3	Inspirations from Chinese Ancient Wisdom: Strategies toward Stable Interfaces in Batteries. <i>Matter</i> , 2019, 1, 300-301.	5.0	2
4	Fluor und Lithium: Ideale Partner für Elektrolyte in wiederaufladbaren Hochleistungsbatterien. <i>Angewandte Chemie</i> , 2019, 131, 16124-16147.	1.6	31
5	Crumpled Nitrogen-Doped Graphene-Wrapped Phosphorus Composite as a Promising Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30858-30864.	4.0	50
6	In Situ Electrochemical Synthesis of Novel Lithium-Rich Organic Cathodes for All-Organic Li-Ion Full Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32987-32993.	4.0	21
7	Metal-Organic-Framework-Based Cathodes for Enhancing the Electrochemical Performances of Batteries: A Review. <i>ChemElectroChem</i> , 2019, 6, 5358-5374.	1.7	36
8	Electrodeposited Cu/MWCNT composite-film: a potential current collector of silicon-based negative-electrodes for Li-ion batteries. <i>RSC Advances</i> , 2019, 9, 21939-21945.	1.7	12
9	Designing Graphite-Based Positive Electrodes and Their Properties in Dual-Ion Batteries Using Particle Size-Adjusted Active Materials. <i>Energy Technology</i> , 2019, 7, 1900528.	1.8	9
10	Intercalation chemistry of graphite: alkali metal ions and beyond. <i>Chemical Society Reviews</i> , 2019, 48, 4655-4687.	18.7	534
11	<i>In situ</i> formation of a multicomponent inorganic-rich SEI layer provides a fast charging and high specific energy Li-metal battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17782-17789.	5.2	95
12	Cyclophosphazene-based hybrid polymer electrolytes obtained <i>via</i> epoxy-amine reaction for high-performance all-solid-state lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18871-18879.	5.2	48
13	Recent Advances in Aerosol-Assisted Spray Processes for the Design and Fabrication of Nanostructured Metal Chalcogenides for Sodium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3127-3140.	1.7	19
14	Fluorine and Lithium: Ideal Partners for High-Performance Rechargeable Battery Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15978-16000.	7.2	243
15	A safe and non-flammable sodium metal battery based on an ionic liquid electrolyte. <i>Nature Communications</i> , 2019, 10, 3302.	5.8	173
16	Tetrahydrothiophene 1-oxide as highly effective co-solvent for propylene carbonate-based electrolytes. <i>Journal of Power Sources</i> , 2019, 437, 226881.	4.0	9
17	Challenges and recent advancements of functionalization of two-dimensional nanostructured molybdenum trioxide and dichalcogenides. <i>Nanoscale</i> , 2019, 11, 15709-15738.	2.8	27
18	Butyronitrile-Based Electrolytes for Fast Charging of Lithium-Ion Batteries. <i>Energies</i> , 2019, 12, 2869.	1.6	17

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19	Intercalation pseudocapacitance in a NASICON-structured Na ₂ CrTi(PO ₄) ₃ @carbon nanocomposite: towards high-rate and long-lifespan sodium-ion-based energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20604-20613.	5.2	18
20	Recent advances in understanding dendrite growth on alkali metal anodes. <i>EnergyChem</i> , 2019, 1, 100003.	10.1	146
21	High Capacity Utilization of Li Metal Anodes by Application of Celgard Separator-Reinforced Ternary Polymer Electrolyte. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2142-A2150.	1.3	26
22	Enabling High-Voltage Lithium-Metal Batteries under Practical Conditions. <i>Joule</i> , 2019, 3, 1662-1676.	11.7	598
23	Ligand-Dependent Energetics for Dehydrogenation: Implications in Li-Ion Battery Electrolyte Stability and Selective Oxidation Catalysis of Hydrogen-Containing Molecules. <i>Chemistry of Materials</i> , 2019, 31, 5464-5474.	3.2	28
24	Bismuth Nanoparticle@Carbon Composite Anodes for Ultralong Cycle Life and High-Rate Sodium-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1904771.	11.1	201
25	A Coaxial-Interweaved Hybrid Lithium Metal Anode for Long-Lifespan Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901932.	10.2	73
26	Plating/Stripping Behavior of Actual Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019, 9, 1902254.	10.2	168
27	Room-Temperature Liquid Metal Confined in MXene Paper as a Flexible, Freestanding, and Binder-Free Anode for Next-Generation Lithium-Ion Batteries. <i>Small</i> , 2019, 15, e1903214.	5.2	79
28	Exploiting Mechanistic Solvation Kinetics for Dual-Graphite Batteries with High Power Output at Extremely Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18892-18897.	7.2	117
29	Building better zinc-ion batteries: A materials perspective. <i>EnergyChem</i> , 2019, 1, 100022.	10.1	153
30	In Situ Volume Change Studies of Lithium Metal Electrode under Different Pressure. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3675-A3678.	1.3	13
31	Exploiting Mechanistic Solvation Kinetics for Dual-Graphite Batteries with High Power Output at Extremely Low Temperature. <i>Angewandte Chemie</i> , 2019, 131, 19068-19073.	1.6	26
32	An Approach for Pre-Lithiation of Li _{1+x} Ni _{0.5} Mn _{1.5} O ₄ Cathodes Mitigating Active Lithium Loss. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3531-A3538.	1.3	28
33	Architecting hierarchical shell porosity of hollow prussian blue-derived iron oxide for enhanced Li storage. <i>Journal of Microscopy</i> , 2019, 276, 53-62.	0.8	7
34	Phosphorization-Induced Void-Containing Fe ₃ O ₄ Nanoparticles Enabling Low Lithiation/Delithiation Potential for High-Performance Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 5060-5069.	1.7	10
35	Enabling reversible redox reactions in electrochemical cells using protected LiAl intermetallics as lithium metal anodes. <i>Science Advances</i> , 2019, 5, eaax5587.	4.7	84
36	On-chip micro/nano devices for energy conversion and storage. <i>Nano Today</i> , 2019, 28, 100764.	6.2	33

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37	Synthesis and Electrochemical Energy Storage Applications of Micro/Nanostructured Spherical Materials. <i>Nanomaterials</i> , 2019, 9, 1207.	1.9	15
38	The Role of Electrolyte Additives on the Interfacial Chemistry and Thermal Reactivity of Si-Anode-Based Li-Ion Battery. <i>ACS Applied Energy Materials</i> , 2019, 2, 6513-6527.	2.5	46
39	Li-free Cathode Materials for High Energy Density Lithium Batteries. <i>Joule</i> , 2019, 3, 2086-2102.	11.7	239
40	Probing and quantifying cathode charge heterogeneity in Li ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23628-23661.	5.2	55
41	Utilization of Petroleum Coke Soot as Energy Storage Material. <i>Energies</i> , 2019, 12, 3195.	1.6	3
42	Shedding X-ray Light on the Interfacial Electrochemistry of Silicon Anodes for Li-Ion Batteries. <i>Accounts of Chemical Research</i> , 2019, 52, 2673-2683.	7.6	25
43	A paradigm of storage batteries. <i>Energy and Environmental Science</i> , 2019, 12, 3203-3224.	15.6	154
44	Nonflammable Electrolytes for Lithium Ion Batteries Enabled by Ultraconformal Passivation Interphases. <i>ACS Energy Letters</i> , 2019, 4, 2529-2534.	8.8	112
45	Understanding the impact of calcination time of high-voltage spinel $\text{Li}_1+\text{Ni}_0.5\text{Mn}_1.5\text{O}_4$ on structure and electrochemical behavior. <i>Electrochimica Acta</i> , 2019, 325, 134901.	2.6	14
46	Molecular Brush with Dense PEG Side Chains: Design of a Well-Defined Polymer Electrolyte for Lithium-Ion Batteries. <i>Macromolecules</i> , 2019, 52, 7234-7243.	2.2	72
47	Tunable pseudocapacitive contribution by dimension control in nanocrystalline-constructed $(\text{Mg}_{0.2}\text{Co}_{0.2}\text{Ni}_{0.2}\text{Cu}_{0.2}\text{Zn}_{0.2})\text{O}$ solid solutions to achieve superior lithium-storage properties. <i>RSC Advances</i> , 2019, 9, 28908-28915.	1.7	36
48	Salt-concentrated electrolytes for graphite anode in potassium ion battery. <i>Solid State Ionics</i> , 2019, 341, 115050.	1.3	33
49	Bifunctional Lithium Carboxylate for Stabilizing Both Lithium-Metal Anode and High-Voltage Cathode in Ether Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39715-39721.	4.0	5
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53	Scalable, Large-Area Printing of Pore-Array Electrodes for Ultrahigh Power Electrochemical Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37859-37866.	4.0	14
54	Biomass-Derived Carbon Paper to Sandwich Magnetite Anode for Long-Life Li-Ion Battery. <i>ACS Nano</i> , 2019, 13, 11901-11911.	7.3	82

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56	Diffusionless charge transfer. Nature Energy, 2019, 4, 93-94.	19.8	20
57	Hierarchically porous CuO nano-labyrinths as binder-free anodes for long-life and high-rate lithium ion batteries. Nano Energy, 2019, 59, 229-236.	8.2	67
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59	Potassium perylene-tetracarboxylate with two-electron redox behaviors as a highly stable organic anode for K-ion batteries. Chemical Communications, 2019, 55, 1801-1804.	2.2	84
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63	A 2D/2D graphitic carbon nitride/N-doped graphene hybrid as an effective polysulfide mediator in lithium-sulfur batteries. Materials Chemistry Frontiers, 2019, 3, 1807-1815.	3.2	19
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74	1-ethyl-3-methylimidazolium tetrafluoroborate (EMI-BF ₄) as an ionic liquid-type electrolyte additive to enhance the low-temperature performance of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ /graphite batteries. Electrochimica Acta, 2019, 317, 146-154.	2.6	46
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143	Reciprocal space imaging of ionic correlations in intercalation compounds. <i>Nature Materials</i> , 2020, 19, 63-68.	13.3	34
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