

# A review of rechargeable batteries for portable electron

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Modulating the d-band center of boron doped single-atom sites to boost the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20952-20957.	10.3	117
2	Recent research progresses in ether- and ester-based electrolytes for sodium-ion batteries. <i>Informa-Materi-ly</i> , 2019, 1, 376-389.	17.3	183
3	Lithium Borate Containing Bifunctional Binder To Address Both Ion Transporting and Polysulfide Trapping for High-Performance Li-S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28968-28977.	8.0	24
4	An Efficient Separator with Low Li-ion Diffusion Energy Barrier Resolving Feeble Conductivity for Practical Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901800.	19.5	61
5	Boosting Cell Performance of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ via Surface Structure Design. <i>Small</i> , 2019, 15, e1904854.	10.0	92
6	Design strategies toward catalytic materials and cathode structures for emerging Li- $\text{CO}_2$ batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21605-21633.	10.3	75
7	Expediting redox kinetics of sulfur species by atomic-scale electrocatalysts in lithium-sulfur batteries. <i>Informa-Materi-ly</i> , 2019, 1, 533-541.	17.3	261
8	Cysteine-Modified Acacia Gum as a Multifunctional Binder for Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47956-47962.	8.0	16
9	Lithiophilic montmorillonite serves as lithium ion reservoir to facilitate uniform lithium deposition. <i>Nature Communications</i> , 2019, 10, 4973.	12.8	144
10	Interface-engineered metallic 1T-MoS <sub>2</sub> nanosheet array induced via palladium doping enabling catalysis enhancement for lithium-oxygen battery. <i>Chemical Engineering Journal</i> , 2020, 382, 122854.	12.7	52
11	Achieving high energy density and high power density with pseudocapacitive materials. <i>Nature Reviews Materials</i> , 2020, 5, 5-19.	48.7	1,138
12	A Review of Composite Lithium Metal Anode for Practical Applications. <i>Advanced Materials Technologies</i> , 2020, 5, .	5.8	111
13	An inorganic-framework proton exchange membrane for direct methanol fuel cells with increased energy density. <i>Sustainable Energy and Fuels</i> , 2020, 4, 772-778.	4.9	14
14	Interface enhanced well-dispersed Co <sub>9</sub> S <sub>8</sub> nanocrystals as an efficient polysulfide host in lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 48, 109-115.	12.9	59
15	Multi-heteroatom-doped dual carbon-confined Fe <sub>3</sub> O <sub>4</sub> nanospheres as high-capacity and long-life anode materials for lithium/sodium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 494-502.	9.4	44
16	Electronic structure modulation of bifunctional oxygen catalysts for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1229-1237.	10.3	26
17	Genetic engineering of porous sulfur species with molecular target prevents host passivation in lithium sulfur batteries. <i>Energy Storage Materials</i> , 2020, 26, 65-72.	18.0	31
18	Adsorption-Catalysis Design in the Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2020, 10, 1903008.	19.5	275

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19	Engineering Frenkel defects of anti-perovskite solid-state electrolytes and their applications in all-solid-state lithium-ion batteries. Chemical Communications, 2020, 56, 1251-1254.	4.1	36
20	Crosstalk shielding of transition metal ions for long cycling lithium-metal batteries. Journal of Materials Chemistry A, 2020, 8, 4283-4289.	10.3	51
21	The recent advances in self-powered medical information sensors. Informa $\tilde{A}$ Mater $\tilde{A}$ ly, 2020, 2, 212-234.	17.3	96
22	Graphene quantum dots as the nucleation sites and interfacial regulator to suppress lithium dendrites for high-loading lithium-sulfur battery. Nano Energy, 2020, 68, 104373.	16.0	95
23	A solid-electrolyte-reinforced separator through single-step electrophoretic assembly for safe high-capacity lithium ion batteries. Journal of Power Sources, 2020, 448, 227469.	7.8	23
24	A compact inorganic layer for robust anode protection in lithium-sulfur batteries. Informa $\tilde{A}$ Mater $\tilde{A}$ ly, 2020, 2, 379-388.	17.3	197
25	Electrode Engineering by Atomic Layer Deposition for Sodium-Ion Batteries: From Traditional to Advanced Batteries. Advanced Functional Materials, 2020, 30, 1906890.	14.9	36
26	The origin of sulfuryl-containing components in SEI from sulfate additives for stable cycling of ultrathin lithium metal anodes. Journal of Energy Chemistry, 2020, 47, 128-131.	12.9	63
27	A flexible CNT@nickel silicate composite film for high-performance sodium storage. Journal of Energy Chemistry, 2020, 47, 29-37.	12.9	31
28	Na <sup>+</sup> -storage properties derived from a high pseudocapacitive behavior for nitrogen-doped porous carbon anode. Materials Letters, 2020, 261, 127064.	2.6	5
29	Boosting the Optimization of Lithium Metal Batteries by Molecular Dynamics Simulations: A Perspective. Advanced Energy Materials, 2020, 10, 2002373.	19.5	56
30	Enabling Natural Graphite in High-Voltage Aqueous Graphite    Zn Metal Dual-Ion Batteries. Advanced Energy Materials, 2020, 10, 2001256.	19.5	43
31	Optimizing Redox Reactions in Aprotic Lithium-Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2002180.	19.5	112
32	Effect of Deep Cryogenic Activated Treatment on Hemp Stem-Derived Carbon Used as Anode for Lithium-Ion Batteries. Nanoscale Research Letters, 2020, 15, 193.	5.7	7
33	Structural Insight into the Abnormal Capacity of a Co-Substituted Tunnel-Type Na <sub>0.44</sub> MnO <sub>2</sub> Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 47548-47555.	8.0	18
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35	Ion and electron-conducting additive effect on Li-ion charge storage performance of CuFe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> composite aerogel anode. Ceramics International, 2020, 46, 25330-25340.	4.8	5
36	Construction of a secondary conductive and buffer structure towards high-performance Si anodes for Li-ion batteries. Electrochimica Acta, 2020, 354, 136767.	5.2	10

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37	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. Batteries and Supercaps, 2020, 3, 1262-1274.	4.7	53
38	On the challenge of large energy storage by electrochemical devices. Electrochimica Acta, 2020, 354, 136771.	5.2	62
39	Anionic vacancy-dependent activity of the $\text{CoSe}_2$ with a tunable interfacial electronic structure on the N-doped carbon cloth for advanced $\text{Li}^{+}\text{O}_2$ batteries. Journal of Materials Chemistry A, 2020, 8, 16636-16648.	10.3	31
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42	Electroactive Materials for Next-Generation Redox Flow Batteries: From Inorganic to Organic. ACS Symposium Series, 2020, , 1-47.	0.5	14
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44	Bare Mo-Based Ordered Double-Transition Metal MXenes as High-Performance Anode Materials for Aluminum-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 25769-25774.	3.1	23
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48	Hierarchical Defect Engineering for $\text{LiCoO}_2$ through Low-Solubility Trace Element Doping. Chem, 2020, 6, 2759-2769.	11.7	74
49	Ink-Based Additive Nanomanufacturing of Functional Materials for Human-Integrated Smart Wearables. Advanced Intelligent Systems, 2020, 2, 2000117.	6.1	17
50	A high voltage Li-ion full-cell battery with $\text{MnCo}_2\text{O}_4/\text{LiCoPO}_4$ electrodes. Ceramics International, 2020, 46, 26147-26155.	4.8	10
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52	IC Design for a Two-Mode Buck Converter Optimized for Both Light and Heavy Load. , 2020, , .		3
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59	A novel bifunctional oxygen electrode architecture enabled by heterostructures self-scaffolding for lithium–oxygen batteries. <i>Journal of Energy Chemistry</i> , 2020, 51, 216-221.	12.9	6
60	Tuning the electronic band structure of Mott–Schottky heterojunctions modified with surface sulfur vacancy achieves an oxygen electrode with high catalytic activity for lithium–oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11337-11345.	10.3	38
61	Transparent Flexible Heteroepitaxy of NiO Coated AZO Nanorods Arrays on Muscovites for Enhanced Energy Storage Application. <i>Small</i> , 2020, 16, 2000020.	10.0	10
62	Cycling a Lithium Metal Anode at 90 °C in a Liquid Electrolyte. <i>Angewandte Chemie</i> , 2020, 132, 15221-15225.	2.0	57
63	Cycling a Lithium Metal Anode at 90 °C in a Liquid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15109-15113.	13.8	61
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71	Fiber-Shape $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$ @N-Doped Carbon as a Cathode Material with Enhanced Cycling Stability for Na-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25920-25929.	8.0	58
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109	Toward Green Battery Cells: Perspective on Materials and Technologies. <i>Small Methods</i> , 2020, 4, 2000039.	8.6	177



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111	Multifunctional Selenium Vacancy Coupling with Interface Engineering Enables High-Stability Li <sup>+</sup> /O <sub>2</sub> Battery. ACS Sustainable Chemistry and Engineering, 2020, 8, 6667-6674.	6.7	22
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113	Novel In Situ Gas Formation Analysis Technique Using a Multilayer Pouch Bag Lithium Ion Cell Equipped with Gas Sampling Port. Journal of the Electrochemical Society, 2020, 167, 060516.	2.9	23
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147	Critical Advances in Ambient Air Operation of Nonaqueous Rechargeable Li-Air Batteries. <i>Small</i> , 2021, 17, e1903854.	10.0	45
148	Li <sub>2</sub> S-Based Li-ion Sulfur Batteries: Progress and Prospects. <i>Small</i> , 2021, 17, e1903934.	10.0	41
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