

30 Years of Lithium-Ion Batteries

Advanced Materials

30, e1800561

DOI: [10.1002/adma.201800561](https://doi.org/10.1002/adma.201800561)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Supercritical CO ₂ -assisted synthesis of 3D porous SiOC/Se cathode for ultrahigh areal capacity and long cycle life Li–Se batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24773-24782.	5.2	26
2	Designing Lithium–Sulfur Batteries with High-Loading Cathodes at a Lean Electrolyte Condition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43749-43759.	4.0	27
3	Unraveling the Redox Couples of V ^{III} /V ^{IV} Mixed-Valent Na ₃ V ₂ (PO ₄) ₂ O _{1.6} F _{1.4} Cathode by Parallel-Mode EPR and In Situ/Ex Situ NMR. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27224-27232.	1.5	35
4	Mechanistic Origin of the High Performance of Yolk@Shell Bi ₂ S ₃ @N-Doped Carbon Nanowire Electrodes. <i>ACS Nano</i> , 2018, 12, 12597-12611.	7.3	213
5	Phytic Acid-Assisted Formation of Hierarchical Porous CoP/C Nanoboxes for Enhanced Lithium Storage and Hydrogen Generation. <i>ACS Nano</i> , 2018, 12, 12238-12246.	7.3	175
6	Before Li Ion Batteries. <i>Chemical Reviews</i> , 2018, 118, 11433-11456.	23.0	1,492
7	Translating Materials-Level Performance into Device-Relevant Metrics for Zinc-Based Batteries. <i>Joule</i> , 2018, 2, 2519-2527.	11.7	134
8	A Facile, Low-Cost Hot-Pressing Process for Fabricating Lithium–Sulfur Cells with Stable Dynamic and Static Electrochemistry. <i>Advanced Materials</i> , 2018, 30, e1805571.	11.1	38
9	Three-Electron Redox Enabled Dithiocarboxylate Electrode for Superior Lithium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35469-35476.	4.0	24
10	Metal-Organic Frameworks for Batteries. <i>Joule</i> , 2018, 2, 2235-2259.	11.7	462
11	The Dual-Play of 3D Conductive Scaffold Embedded with Co, N Codoped Hollow Polyhedra toward High-Performance Li–S Full Cell. <i>Advanced Energy Materials</i> , 2018, 8, 1802561.	10.2	114
12	Coaxial ±-MnSe@N-doped carbon double nanotubes as superior anode materials in Li/Na-ion half/full batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15797-15806.	5.2	65
13	Ultrahigh Malleability of the Lithiation-Induced Li _x Si Phase. <i>ACS Applied Energy Materials</i> , 2018, 1, 4211-4220.	2.5	16
14	Fast chargeable P ₂ K _{2/3} [Ni _{1/3} Mn _{2/3}]O ₂ for potassium ion battery cathodes. <i>Journal of Power Sources</i> , 2019, 438, 226992.	4.0	31
15	Design, synthesis and lithium-ion storage capability of Al _{0.5} Nb _{24.5} O ₆₂ . <i>Journal of Materials Chemistry A</i> , 2019, 7, 19862-19871.	5.2	96
16	Multiscale Buffering Engineering in Silicon–Carbon Anode for Ultrastable Li-Ion Storage. <i>ACS Nano</i> , 2019, 13, 10179-10190.	7.3	73
17	Multifunctional Nano-Architecting of Si Electrode for High-Performance Lithium-Ion Battery Anode. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2776-A2783.	1.3	6
18	A modeling framework to assess specific energy, costs and environmental impacts of Li-ion and Na-ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3061-3070.	2.5	36

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19	Biofilm Nanofiber-Coated Separators for Dendrite-Free Lithium Metal Anode and Ultrahigh-Rate Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32373-32380.	4.0	59
20	Sn nanocrystals embedded in porous TiO ₂ /C with improved capacity for sodium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2675-2681.	3.0	13
21	On the Lithiation Mechanism of Amorphous Silicon Electrodes in Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22027-22039.	1.5	34
22	Top-down tailoring of nanostructured manganese molybdate enhances its lithium storage properties. <i>CrystEngComm</i> , 2019, 21, 5374-5381.	1.3	10
23	Hydrodynamic force-induced rapid assembly of mesoporous MnO/C hollow microtube as an anode material for lithium-ion batteries. <i>Ceramics International</i> , 2019, 45, 22281-22291.	2.3	6
24	Revealing the Chemical and Structural Evolution of V ₂ O ₅ Nanoribbons in Lithium-Ion Batteries Using In Situ Transmission Electron Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 11055-11062.	3.2	18
25	Enhanced low-temperature Li-ion storage in MXene titanium carbide by surface oxygen termination. <i>2D Materials</i> , 2019, 6, 045025.	2.0	46
26	Prospects of carbon nanomaterials for energy storage and conversion. , 2019, , 423-430.		2
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29	Advanced Lithium Metal/Carbon Nanotube Composite Anode for High-Performance Lithium/Oxygen Batteries. <i>Nano Letters</i> , 2019, 19, 6377-6384.	4.5	70
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31	A hollow CuS nanocube cathode for rechargeable Mg batteries: effect of the structure on the performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21410-21420.	5.2	58
32	Electrospun carbon nanofiber-based composites for lithium-ion batteries: Structure optimization towards high performance. <i>Composites Communications</i> , 2019, 15, 135-148.	3.3	31
33	Intercalation chemistry of graphite: alkali metal ions and beyond. <i>Chemical Society Reviews</i> , 2019, 48, 4655-4687.	18.7	534
34	Synthesis and Applications of Graphene/Iron(III) Oxide Composites. <i>ChemElectroChem</i> , 2019, 6, 4922-4948.	1.7	7
35	An innovation: Dendrite free quinone paired with ZnMn ₂ O ₄ for zinc ion storage. <i>Materials Today Energy</i> , 2019, 13, 323-330.	2.5	73
36	The Effects of Reversibility of H ₂ -H ₃ Phase Transition on Ni-Rich Layered Oxide Cathode for High-Energy Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , 2019, 7, 500.	1.8	51

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38	P2-type Na _{0.67} Co _{0.35} Ti _{0.20} Mn _{0.44} La _{0.01} O ₂ cathode material with high-rate capability for sodium-ion batteries. Journal of Rare Earths, 2019, 37, 1296-1304.	2.5	4
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43	Encapsulating NiCo ₂ O ₄ inside metal-organic framework sandwiched graphene oxide 2D composite nanosheets for high-performance lithium-ion batteries. Nanoscale, 2019, 11, 15166-15172.	2.8	27
44	Role of Stress Concentrations on the Electrochemical Response of a Li-Ion Battery Anode Particle. Journal of the Electrochemical Society, 2019, 166, A2574-A2588.	1.3	8
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56	Dendrite-Free Lithium Deposition via a Superfilling Mechanism for High-Performance Li-Metal Batteries. <i>Advanced Materials</i> , 2019, 31, e1903248.	11.1	106
57	Electrodeposition Technologies for Li-Based Batteries: New Frontiers of Energy Storage. <i>Advanced Materials</i> , 2020, 32, e1903808.	11.1	70
58	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
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60	Effects of oxalic acid concentration on the microstructures and properties of nano-VO ₂ (B). <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 2951-2959.	1.2	9
61	Anisotropically Electrochemical-Mechanical Evolution in Solid-State Batteries and Interfacial Tailored Strategy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18647-18653.	7.2	43
62	High-performance symmetric lithium-ion batteries constructed with a new bi-functional electrode Li- and Mn-rich layered oxide 0.3Li ₂ MnO ₃ ·0.7LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ . <i>Electrochimica Acta</i> , 2019, 325, 134932.	2.6	8
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64	Elucidation of Anionic and Cationic Redox Reactions in a Prototype Sodium-Layered Oxide Cathode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41304-41312.	4.0	43
65	Facile synthesis of LiVO ₃ and its electrochemical behavior in rechargeable lithium batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 853, 113505.	1.9	18
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67	Anisotropically Electrochemical-Mechanical Evolution in Solid-State Batteries and Interfacial Tailored Strategy. <i>Angewandte Chemie</i> , 2019, 131, 18820-18826.	1.6	12
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71	Preparation of Highly Porous PAN-LATP Membranes as Separators for Lithium Ion Batteries. <i>Nanomaterials</i> , 2019, 9, 1581.	1.9	13
72	O ₃ -Type Layered Ni-Rich Oxide: A High-Capacity and Superior-Rate Cathode for Sodium-Ion Batteries. <i>Small</i> , 2019, 15, e1905311.	5.2	41

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74	Atroposelective Arene Formation by Carbene-Catalyzed Formal [4+2] Cycloaddition. <i>Angewandte Chemie</i> , 2019, 131, 17789-17794.	1.6	30
75	The critical role of carbon in marrying silicon and graphite anodes for high-energy lithium-ion batteries. , 2019, 1, 57-76.		261
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77	An Ultrahigh Energy Density Quasi-Solid-State Zinc Ion Microbattery with Excellent Flexibility and Thermostability. <i>Advanced Energy Materials</i> , 2019, 9, 1901957.	10.2	111
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88	A paradigm of storage batteries. <i>Energy and Environmental Science</i> , 2019, 12, 3203-3224.	15.6	154
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103	Mechanochemical Synthesis of Graphyne with Enhanced Lithium Storage Performance. <i>Small</i> , 2019, 15, e1804710.	5.2	59
104	F-doped LiFePO ₄ @N/B/F-doped carbon as high performance cathode materials for Li-ion batteries. <i>Applied Surface Science</i> , 2019, 476, 761-768.	3.1	51
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129	Understanding the Role of Overpotentials in Lithium Ion Conversion Reactions: Visualizing the Interface. <i>ACS Nano</i> , 2019, 13, 7825-7832.	7.3	16
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131	Preparation of spinel LiMn ₂ O ₄ with porous microscopic morphology by simple coprecipitation-microwave synthesis method. <i>Ionics</i> , 2019, 25, 5213-5220.	1.2	4
132	Improving the Electrochemical Performance and Structural Stability of the LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material at High-Voltage Charging through Ti Substitution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23213-23221.	4.0	57
133	Recent Development in Separators for High-Temperature Lithium-ion Batteries. <i>Small</i> , 2019, 15, e1901689.	5.2	158
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136	Uniform Na ⁺ Doping-Induced Defects in Li- and Mn-Rich Cathodes for High-Performance Lithium-ion Batteries. <i>Advanced Science</i> , 2019, 6, 1802114.	5.6	78
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1728	A Low-Cost Liquid-Phase Method of Synthesizing High-Performance Li ₆ PS ₅ Cl Solid-Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30824-30838.	4.0	11

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1730	Electrosynthesis of Vertically Aligned Zinc Oxide Nanoflakes on 3D Porous Cu Foam Enables Dendrite-Free Li-Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33400-33409.	4.0	13
1731	Synthesis, structural and conductive properties of Nd doped garnet-type Li ₇ La ₃ Zr ₂ O ₁₂ Li-ion conductor. <i>Current Applied Physics</i> , 2022, 41, 1-6.	1.1	4
1732	Preliminary study of new electrolytes based on [MPPyr][TFSI] for lithium ion batteries. <i>Journal of Molecular Liquids</i> , 2022, 363, 119758.	2.3	4
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1734	Enhancing role of structurally integrated V ₂ C MXene nanosheets on silicon anode for lithium storage. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166213.	2.8	21
1735	Effective adsorption and acceleration redox conversion towards lithium polysulfide by nanorod-like Sb-doped SnO ₂ nanofibers for high-performance lithium-sulfur battery. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166234.	2.8	3
1736	A Dual-Salt PEO-based polymer electrolyte with Cross-Linked polymer network for High-Voltage lithium metal batteries. <i>Chemical Engineering Journal</i> , 2022, 450, 137776.	6.6	31
1737	Identifying Redox Orbitals and Defects in Lithium-Ion Cathodes with Compton Scattering and Positron Annihilation Spectroscopies: A Review. <i>Condensed Matter</i> , 2022, 7, 47.	0.8	3
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1739	Boron-Based Electrolytes for Rechargeable Magnesium Batteries: Biography and Perspective. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	5
1740	Low-Dimensional Nanomaterial Systems Formed by IVA Group Elements Allow Energy Conversion Materials to Flourish. <i>Nanomaterials</i> , 2022, 12, 2521.	1.9	1
1741	Simple preparation of Si/CNTs/C composite derived from photovoltaic waste silicon powder as high-performance anode material for Li-ion batteries. <i>Powder Technology</i> , 2022, 408, 117744.	2.1	14
1742	Metal-organic frameworks (MOFs) and their derivative as electrode materials for lithium-ion batteries. <i>Coordination Chemistry Reviews</i> , 2022, 470, 214715.	9.5	50
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1744	A ranking method for the selection of ship energy storage systems based on batteries. , 2022, , .		2
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1748	Cuprous Chloride as a New Cathode Material for Room Temperature Chloride Ion Batteries. <i>ChemElectroChem</i> , 2022, 9, .	1.7	5
1749	Direct Observation of the SEI Layer Formation Process on the Graphite Anode by <i>in situ</i> TEM. <i>Microscopy and Microanalysis</i> , 2022, 28, 2298-2299.	0.2	1
1750	The Synthesis of Manganese Hydroxide Nanowire Arrays for a High-Performance Zinc-Ion Battery. <i>Nanomaterials</i> , 2022, 12, 2514.	1.9	4
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1767	Crosslinked Nanofiber-Reinforced Solid-State Electrolytes with Polysulfide Fixation Effect Towards High Safety Flexible Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	42
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1777	Advances on Defect Engineering of Vanadium-Based Compounds for High-Energy Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	70
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1779	Microstructural Modeling and Simulation of a Carbon Black-Based Conductive Polymer Template for the Virtual Design of a Composite Material. <i>ACS Omega</i> , 2022, 7, 28820-28830.	1.6	4
1780	Simply Prepared Magnesium Vanadium Oxides as Cathode Materials for Rechargeable Aqueous Magnesium Ion Batteries. <i>Nanomaterials</i> , 2022, 12, 2767.	1.9	2
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1782	The Crucial Role of Electrode Potential of a Working Anode in Dictating the Structural Evolution of Solid Electrolyte Interphase. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	39

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1787	Oxygen-deficient Nb ₂ O _{5-x} decorated MCMB anode with much enhanced rate and cycle performances for Li-ion batteries. <i>Applied Surface Science</i> , 2022, 604, 154564.	3.1	4
1788	Multidimensional antimony nanomaterials tailored by electrochemical engineering for advanced sodium-ion and potassium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 628, 41-52.	5.0	7
1789	Synergistic modification of Ni-rich full concentration gradient materials with enhanced thermal stability. <i>Chemical Engineering Journal</i> , 2023, 451, 138518.	6.6	2
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1791	Cu ₃ Si-Modified Silicon Nanoparticles Encapsulated within SiO _x and Hollow Carbon for Lithium-Ion Battery Anodes. <i>ACS Applied Nano Materials</i> , 2022, 5, 14275-14284.	2.4	1
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1797	Chemical-free pressure washing system as pretreatment to harvest cathode materials. <i>Waste Management</i> , 2022, 153, 121-128.	3.7	3
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1799	One-step construction of oxygen vacancies and coating to improve lithium storage performance of Li-rich layered oxides. <i>Applied Surface Science</i> , 2022, 605, 154819.	3.1	8
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1822	Advanced layered oxide cathodes for sodium/potassium-ion batteries: Development, challenges and prospects. <i>Chemical Engineering Journal</i> , 2023, 452, 139438.	6.6	57
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1826	Stabilizing Zn Anode Interface by Simultaneously Manipulating the Thermodynamics of Zn Nucleation and Overpotential of Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	43
1827	Assembly: A Key Enabler for the Construction of Superior Silicon-Based Anodes. <i>Advanced Science</i> , 2022, 9, .	5.6	48
1828	Polycyclic Aromatic Hydrocarbon-Enabled Wet Chemical Prelithiation and Presodiation for Batteries. <i>Batteries</i> , 2022, 8, 99.	2.1	7
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1832	Carbon nanofibers derived from carbonization of electrospinning polyacrylonitrile (PAN) as high performance anode material for lithium ion batteries. <i>Journal of Porous Materials</i> , 0, , .	1.3	4
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1845	Response surface methodology of nickel and cobalt recovery from battery using acid as leaching agent. <i>International Journal of Energy and Environmental Engineering</i> , 0, .	1.3	0
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1858	Role of Interfaces in Solid-State Batteries. <i>Advanced Materials</i> , 2023, 35, .	11.1	29
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1868	Flame-Retardant Crosslinked Polymer Stabilizes Graphite-Silicon Composite Anode for Self-Extinguishing Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	6
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1908	Advanced Material Engineering to Tailor Nucleation and Growth towards Uniform Deposition for Anode-Free Lithium Metal Batteries. <i>Small</i> , 2022, 18, .	5.2	9
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1938	Entropy Stabilization Strategy for Enhancing the Local Structural Adaptability of Li-Rich Cathode Materials. <i>Advanced Materials</i> , 2023, 35, .	11.1	28
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