Arumugam Manthiram

List of Publications by Year
in descending order

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Version: 2024-02-01

687	82,489	258	529
papers	citations	139 h-index	260 g-index

703	703	703	32950
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interphase Stabilization of LiNi_{0.5}Mn_{1.5}O₄ Cathode for 5 Vâ€Class Allâ€Solidâ€State Batteries. Small, 2024, 20, .	10.9	5
2	Effect of Oxidative Synthesis Conditions on the Performance of Singleâ€Crystalline LiMn_{2â€}_xM_xO₄ (M = Al, Fe, and Ni) Spinel Cathodes in Lithiumâ€Ion Batteries. Small, 2024, 20, .	10.9	7
3	Demarcating the Impact of Electrolytes on Highâ€Nickel Cathodes and Lithiumâ€Metal Anode. Advanced Functional Materials, 2024, 34, .	16.0	3
4	Tuning Dopant Distribution for Stabilizing the Surface of Highâ€Nickel Layered Oxide Cathodes for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2024, 14, .	21.5	6
5	Longâ€Life Lithiumâ€Metal Batteries with an Ultraâ€Highâ€Nickel Cathode and Electrolytes with Biâ€Anion Activity. Advanced Functional Materials, 2024, 34, .	16.0	1
6	Impact of High-Nickel Cathodes and Test Conditions on the Coulombic Efficiency of Lithium Metal in Advanced Electrolytes. , 2024, 6, 109-114.		2
7	Solid-state sodium batteries with P2-type Mn-based layered oxides by utilizing anionic redox. Journal of Materials Chemistry A, 2024, 12, 3006-3013.	10.3	1
8	Boosting the electrochemical performance with functionalized dry electrodes for practical all-solid-state batteries. Journal of Materials Chemistry A, 2024, 12, 3323-3330.	10.3	2
9	Polycarbonateâ€Based Solidâ€Polymer Electrolytes for Solidâ€State Sodium Batteries. Small, 2024, 20, .	10.9	0
10	Factors Influencing Gas Evolution from Highâ€Nickel Layered Oxide Cathodes in Lithiumâ€Based Batteries. Advanced Energy Materials, 2024, 14, .	21.5	11
11	Delineating the Effects of Transitionâ€Metalâ€Ion Dissolution on Silicon Anodes in Lithiumâ€Ion Batteries. Small, 2024, 20, .	10.9	3
12	Tuning the solvation structure with salts for stable sodium-metal batteries. Nature Energy, 2024, 9, 446-456.	28.8	11
13	Crackâ€Free Singleâ€Crystalline LiNiO₂ for High Energy Density Allâ€Solidâ€State Batteries. Advanced Energy Materials, 2024, 14, .	21.5	2
14	Effects of Calcination Conditions onÂthe Structural and Electrochemical Behaviors of Highâ€Nickel, Cobaltâ€Free LiNi_{0.9}Mn_{0.1}O₂ Cathode. Advanced Energy Materials, 2024, 14, .	21.5	3
15	Rechargeable Metal-Sulfur Batteries: Key Materials to Mechanisms. Chemical Reviews, 2024, 124, 4935-5118.	49.4	11
16	Impact of LiAl Nucleation Kinetics on the Microstructural Evolution of Aluminum Foil Anodes in Lithium-ion Batteries. Journal of the Electrochemical Society, 2024, 171, 040539.	2.9	1
17	Mitigating Sodium Ordering for Enhanced Solid Solution Behavior in Layered NaNiO₂ Cathodes. Angewandte Chemie, 2024, 136, .	2.1	0
18	Structure and Properties of Na₂Sâ€“SiS₂â€“P₂S₅â€“NaPO₃ Glassy Solid Electrolytes. Inorganic Chemistry, 2024, 63, 9129-9144.	4.1	0

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19	Understanding the Effects of Al and Mn Doping on the H2â€“H3 Phase Transition in High-Nickel Layered Oxide Cathodes. Chemistry of Materials, 2024, 36, 6226-6236.	6.8	1
20	Reducing the Initial Capacity Loss in High-Nickel Cathodes with a Higher Upper Cut-off Voltage Formation Cycle Protocol. ACS Energy Letters, 2024, 9, 3316-3323.	17.8	0
21	Learning Molecular Mixture Property Using Chemistry-Aware Graph Neural Network. , 2024, 3, .		0
22	Ammonia-free synthesis of lithium manganese iron phosphate cathodes via a co-precipitation reaction. RSC Sustainability, 2024, 2, 1969-1978.	0.0	0
23	2,5<scp>â€Dimercapto</scp>â€1,3,4â€Thiadiazole (<scp>DMCT</scp>)â€Based Polymers for Rechargeable Metalâ€“Sulfur Batteries. Energy and Environmental Materials, 2023, 6, .	12.9	5
24	Nextâ€Generation Energy Harvesting and Storage Technologies for Robots Across All Scales. Advanced Intelligent Systems, 2023, 5, .	6.6	16
25	Highly Efficient Organosulfur and Lithiumâ€Metal Hosts Enabled by C@Fe₃N Sponge. Angewandte Chemie, 2023, 135, .	2.1	1
26	Highly Efficient Organosulfur and Lithiumâ€Metal Hosts Enabled by C@Fe₃N Sponge. Angewandte Chemie - International Edition, 2023, 62, .	14.2	23
27	Ultraâ€Thin Singleâ€Particleâ€Layer Sodium Betaâ€Aluminaâ€Based Composite Polymer Electrolyte Membrane for Sodiumâ€Metal Batteries. Advanced Functional Materials, 2023, 33, .	16.0	29
28	Degradation Pathways of Cobaltâ€Free LiNiO₂ Cathode in Lithium Batteries. Advanced Functional Materials, 2023, 33, .	16.0	23
29	Surface Stabilization of Cobalt-Free LiNiO₂ with Niobium for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2023, 15, 1442-1451.	8.1	15
30	Stabilizing the Interphase in Cobaltâ€Free, Ultrahighâ€Nickel Cathodes for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2023, 33, .	16.0	28
31	Stabilizing Highâ€Nickel Cathodes with Highâ€Voltage Electrolytes. Advanced Functional Materials, 2023, 33, .	16.0	22
32	A kinetic study on cobalt-free high-nickel layered oxide cathode materials for practical lithium-ion batteries. Journal of Power Sources, 2023, 558, 232633.	7.9	12
33	Laser-Assisted Surface Lithium Fluoride Decoration of a Cobalt-Free High-Voltage Spinel LiNi_{0.5}Mn_{1.5}O₄ Cathode for Long-Life Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2023, 15, 1247-1255.	8.1	11
34	Heuristics for Molten-Salt Synthesis of Single-Crystalline Ultrahigh-Nickel Layered Oxide Cathodes. ACS Applied Materials & Interfaces, 2023, 15, 12895-12907.	8.1	14
35	Inhibition of transition-metal dissolution with advanced electrolytes in batteries with silicon-graphite anodes and high-nickel cathodes. Energy Storage Materials, 2023, 56, 562-571.	18.0	17
36	In situ Interweaved Binder Framework Mitigating the Structural and Interphasial Degradations of Highâ€nickel Cathodes in Lithiumâ€ion Batteries. Angewandte Chemie, 2023, 135, .	2.1	0

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37	In situ Interweaved Binder Framework Mitigating the Structural and Interphasial Degradations of Highâ€nickel Cathodes in Lithiumâ€ion Batteries. Angewandte Chemie - International Edition, 2023, 62, .	14.2	32
38	Assessing the Intrinsic Roles of Key Dopant Elements in Highâ€Nickel Layered Oxide Cathodes in Lithiumâ€Based Batteries. Advanced Energy Materials, 2023, 13, .	21.5	39
39	Li-S batteries, what's next?. Next Energy, 2023, 1, 100012.	0.0	6
40	Design of an Online Electrochemical Mass Spectrometry System to Study Gas Evolution from Cells with Lean and Volatile Electrolytes. Small Methods, 2023, 7, .	9.3	10
41	Operation of Layered LiCoO₂ to Higher Voltages with a Localized Saturated Electrolyte. ACS Applied Materials & Interfaces, 2023, 15, 15458-15466.	8.1	6
42	Electrolytes with Solvating Inner Sheath Engineering for Practical Naâ€“S Batteries. Advanced Materials, 2023, 35, .	23.6	32
43	The Importance of Morphology on Ion Transport in Single-Ion, Comb-Branched Copolymer Electrolytes: Experiments and Simulations. Macromolecules, 2023, 56, 2790-2800.	4.9	5
44	Mechanistic understanding of lithium-anode protection by organosulfide-based solid-electrolyte interphases and its implications. Journal of Materials Chemistry A, 2023, 11, 9772-9783.	10.3	5
45	Scalable Glass-Fiber-Polymer Composite Solid Electrolytes for Solid-State Sodiumâ€“Metal Batteries. ACS Applied Materials & Interfaces, 2023, 15, 20946-20957.	8.1	7
46	Insights into the Microstructural Engineering of Cobaltâ€Free, Highâ€Nickel Cathodes Based on Surface Energy for Lithiumâ€ion Batteries. Advanced Energy Materials, 2023, 13, .	21.5	13
47	A High Energyâ€Density, Cobaltâ€Free, Lowâ€Nickel LiNi_{0.7}Mn_{0.25}Al_{0.05}O₂ Cathode with a Highâ€Voltage Electrolyte for Lithiumâ€Metal Batteries. Advanced Energy Materials, 2023, 13, .	21.5	13
48	Stable Cycling with Intimate Contacts Enabled by Crystallinityâ€Controlled PTFEâ€Based Solventâ€Free Cathodes in Allâ€Solidâ€State Batteries. Small Methods, 2023, 7, .	9.3	9
49	Ethanothermal Synthesis of Octahedral-Shaped Doped Mn₂O₃ Single Crystals as a Precursor for LiMn₂O₄ Spinel Cathodes in Lithium-Ion Batteries. Journal of Physical Chemistry C, 2023, 127, 8515-8522.	3.2	5
50	Thermal Stability and Outgassing Behaviors of Highâ€nickel Cathodes in Lithiumâ€ion Batteries. Angewandte Chemie, 2023, 135, .	2.1	0
51	Thermal Stability and Outgassing Behaviors of Highâ€nickel Cathodes in Lithiumâ€ion Batteries. Angewandte Chemie - International Edition, 2023, 62, .	14.2	40
52	Lithium Tritelluride as an Electrolyte Additive for Stabilizing Lithium Deposition and Enhancing Sulfur Utilization in Anodeâ€Free Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2023, 33, .	16.0	11
53	Tuning and understanding the solvent ratios of localized saturated electrolytes for lithium-metal batteries. Journal of Materials Chemistry A, 2023, 11, 11889-11902.	10.3	5
54	Controlling the Microstructure of Cobalt-Free, High-Nickel Cathode Materials with Dopant Solubility for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2023, 15, 26585-26592.	8.1	8

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55	Reversible Sodiumâ€“Sulfur Batteries Enabled by a Synergistic Dual-Additive Design. ACS Energy Letters, 2023, 8, 2746-2752.	17.8	7
56	Battery Charge Curve Prediction via Feature Extraction and Supervised Machine Learning. Advanced Science, 2023, 10, .	12.1	3
57	Localized Highâ€Concentration Electrolytes with Lowâ€Cost Diluents Compatible with Both Cobaltâ€Free LiNiO₂ Cathode and Lithiumâ€Metal Anode. Small, 2023, 19, .	10.9	14
58	Challenges and Prospects of Sodiumâ€Ion and Potassiumâ€Ion Batteries for Mass Production. Advanced Energy Materials, 2023, 13, .	21.5	54
59	Revealing the Electrochemical Kinetics of Electrolytes in Nanosized LiFePO₄ Electrodes. Journal of the Electrochemical Society, 2023, 170, 100515.	2.9	3
60	Tellurium Nanowires for Lithiumâ€Metal Anode Stabilization in Highâ€Performance Anodeâ€Free Liâ€“S Batteries. Small Science, 2023, 3, .	10.4	4
61	Poly(vinylferrocene) as an Ionomer and Sulfur-Confining Additive for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2023, 15, 39245-39252.	8.1	3
62	Influence of Single-Crystalline Morphology on the Electrochemical Behavior of High-Nickel Layered Oxide Cathodes. Journal of the Electrochemical Society, 2023, 170, 080509.	2.9	4
63	Scalable Metal Phosphides as a Dual-Function Catalyst and Lithiumâ€“Metal Stabilizer for Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2023, 6, 9585-9593.	5.2	3
64	Interplay of molten salt and dopants in tuning the performance of single-crystalline LiNiO2. Journal of Power Sources, 2023, 586, 233681.	7.9	2
65	Cracking vs. surface reactivity in high-nickel cathodes for lithium-ion batteries. Joule, 2023, 7, 2430-2444.	24.0	44
66	Intercalation-type catalyst for non-aqueous room temperature sodium-sulfur batteries. Nature Communications, 2023, 14, .	12.8	30
67	Irreparable Interphase Chemistry Degradation Induced by Temperature Pulse in Lithiumâ€Ion Batteries. Angewandte Chemie, 2023, 135, .	2.1	0
68	Irreparable Interphase Chemistry Degradation Induced by Temperature Pulse in Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2023, 62, .	14.2	6
69	Roles of Mn and Co in the Air Synthesizability of Layered Oxide Cathodes for Lithium-Based Batteries. Chemistry of Materials, 2023, 35, 9352-9361.	6.8	5
70	Impact of Dopants on Suppressing Gas Evolution from High-Nickel Layered Oxide Cathodes. ACS Energy Letters, 2023, 8, 5143-5148.	17.8	9
71	Accessing a highâ€voltage nonaqueous hybrid flow battery with a sodiumâ€methylphenothiazine chemistry and a sodiumâ€ion solid electrolyte. Energy Storage, 2022, 4, e281.	4.2	5
72	Synthesis and characterization of Ca3-xLaxCo4-yCuyO9+Î´ cathodes for intermediate temperature solid oxide fuel cells. Ceramics International, 2022, 48, 455-462.	4.8	10

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73	A Selfâ€Healable Sulfide/Polymer Composite Electrolyte for Longâ€Life, Lowâ€Lithiumâ€Excess Lithiumâ€Metal Batteries. Advanced Functional Materials, 2022, 32, 2106680.	16.0	33
74	Nonaqueous hybrid redox flow energy storage with a sodiumâ€“TEMPO chemistry and a single-ion solid electrolyte separator. Energy Advances, 2022, 1, 21-27.	3.0	3
75	In Situ Grown 1Tâ€²â€MoTe₂ Nanosheets on Carbon Nanotubes as an Efficient Electrocatalyst and Lithium Regulator for Stable Lithiumâ€“Sulfur Full Cells. Advanced Energy Materials, 2022, 12, .	21.5	45
76	A Facile Potential Hold Method for Fostering an Inorganic Solidâ€Electrolyte Interphase for Anodeâ€Free Lithiumâ€Metal Batteries. Angewandte Chemie, 2022, 134, .	2.1	5
77	High-Performance Anode-Free Liâ€“S Batteries with an Integrated Li₂Sâ€“Electrocatalyst Cathode. ACS Energy Letters, 2022, 7, 583-590.	17.8	78
78	Principles and Challenges of Lithiumâ€“Sulfur Batteries. Modern Aspects of Electrochemistry, 2022, , 1-18.	0.0	2
79	High-efficiency, anode-free lithiumâ€“metal batteries with a close-packed homogeneous lithium morphology. Energy and Environmental Science, 2022, 15, 843-854.	31.3	65
80	A Facile Potential Hold Method for Fostering an Inorganic Solidâ€Electrolyte Interphase for Anodeâ€Free Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2022, 61, .	14.2	45
81	Creating a rechargeable world. CheM, 2022, 8, 312-318.	11.8	29
82	Delineating the Roles of Mn, Al, and Co by Comparing Three Layered Oxide Cathodes with the Same Nickel Content of 70% for Lithium-Ion Batteries. Chemistry of Materials, 2022, 34, 629-642.	6.8	50
83	Polyanionic insertion hosts for aqueous rechargeable batteries. Journal of Materials Chemistry A, 2022, 10, 6376-6396.	10.3	16
84	Moltenâ€Salt Synthesis of O3â€Type Layered Oxide Single Crystal Cathodes with Controlled Morphology towards Longâ€Life Sodiumâ€Ion Batteries. Small, 2022, 18, e2106927.	10.9	33
85	Insights into the Crossover Effects in Cells with Highâ€Nickel Layered Oxide Cathodes and Silicon/Graphite Composite Anodes. Advanced Energy Materials, 2022, 12, .	21.5	41
86	Nanostructured Composite Foils Produced Via Accumulative Roll Bonding as Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2022, 14, 11408-11414.	8.1	5
87	Operating Highâ€Energy Lithiumâ€Metal Pouch Cells with Reduced Stack Pressure Through a Rational Lithiumâ€Host Design. Advanced Energy Materials, 2022, 12, .	21.5	11
88	Covalent Organic Framework as an Efficient Protection Layer for a Stable Lithiumâ€Metal Anode. Angewandte Chemie, 2022, 134, .	2.1	9
89	Foldable Solidâ€State Batteries Enabled by Electrolyte Mediation in Covalent Organic Frameworks. Advanced Materials, 2022, 34, e2201410.	23.6	74
90	Thiometallate-mediated polysulfide chemistry and lithium stabilization for stable anode-free lithium-sulfur batteries. Cell Reports Physical Science, 2022, 3, 100808.	5.7	9

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91	Covalent Organic Framework as an Efficient Protection Layer for a Stable Lithiumâ€Metal Anode. Angewandte Chemie - International Edition, 2022, 61, .	14.2	50
92	Ethylene Carbonateâ€Free Electrolytes for Stable, Safer Highâ€Nickel Lithiumâ€Ion Batteries. Advanced Energy Materials, 2022, 12, .	21.5	40
93	Editorsâ€™ Choiceâ€”A Fruitful Transition of John B. Goodenough from Oxford to the University of Texas at Austin. Journal of the Electrochemical Society, 2022, 169, 034520.	2.9	1
94	Fast and Simple Ag/Cu Ion Exchange on Cu Foil for Anode-Free Lithium-Metal Batteries. ACS Applied Materials & Interfaces, 2022, 14, 17454-17460.	8.1	25
95	Lithium Trithiocarbonate as a Dualâ€Function Electrode Material for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	21.5	23
96	Surface Stabilization with Fluorine of Layered Ultrahigh-Nickel Oxide Cathodes for Lithium-Ion Batteries. Chemistry of Materials, 2022, 34, 4514-4522.	6.8	15
97	Protection of Cobalt-Free LiNiO₂ from Degradation with Localized Saturated Electrolytes in Lithium-Metal Batteries. ACS Energy Letters, 2022, 7, 2165-2172.	17.8	52
98	Stable Sodium-Based Batteries with Advanced Electrolytes and Layered-Oxide Cathodes. ACS Applied Materials & Interfaces, 2022, 14, 28865-28872.	8.1	18
99	John Goodenoughâ€™s 100th Birthday Celebration: His Impact on Science and Humanity. ACS Energy Letters, 2022, 7, 2404-2406.	17.8	3
100	Mechanical Pulverization of Co-Free Nickel-Rich Cathodes for Improved High-Voltage Cycling of Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 6996-7005.	5.2	17
101	Paving Pathways Toward Longâ€Life Graphite/LiNi_{0.5}Mn_{1.5}O₄ Full Cells: Electrochemical and Interphasial Points of View. Advanced Functional Materials, 2022, 32, .	16.0	23
102	Anodeâ€Free Lithiumâ€“Sulfur Cells Enabled by Rationally Tuning Lithium Polysulfide Molecules. Angewandte Chemie, 2022, 134, .	2.1	5
103	Anodeâ€Free Lithiumâ€“Sulfur Cells Enabled by Rationally Tuning Lithium Polysulfide Molecules. Angewandte Chemie - International Edition, 2022, 61, .	14.2	18
104	Uncovering the Solvation Structure of LiPF₆â€Based Localized Saturated Electrolytes and Their Effect on LiNiO₂â€Based Lithiumâ€Metal Batteries. Advanced Energy Materials, 2022, 12, .	21.5	46
105	Crossover Effects in Lithiumâ€Metal Batteries with a Localized High Concentration Electrolyte and Highâ€Nickel Cathodes. Advanced Materials, 2022, 34, .	23.6	52
106	Can Cobalt Be Eliminated from Lithium-Ion Batteries?. ACS Energy Letters, 2022, 7, 3058-3063.	17.8	63
107	Diffusional lithium trapping as a failure mechanism of aluminum foil anodes in lithium-ion batteries. Journal of Power Sources, 2022, 546, 231973.	7.9	22
108	Taming polysulfides in sulfur-based batteries via electrolyte-soluble thiomolybdate additives. Journal of Materials Chemistry A, 2022, 10, 17572-17585.	10.3	4

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109	A Lithium-Ion Conducting Polysulfide Polymer for Flexible Batteries. , 2022, 4, 1904-1911.		4
110	Lithiumâ€Metal Batteries via Suppressing Li Dendrite Growth and Improving Coulombic Efficiency. Small Structures, 2022, 3, .	12.9	32
111	A Dualâ€Phase Electrolyte for Highâ€Energy Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	21.5	14
112	Facile Synthesis of O3-Type NaNi_{0.5}Mn_{0.5}O₂ Single Crystals with Improved Performance in Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 52729-52737.	8.1	23
113	Sodium trithiocarbonate cathode for high-performance sodiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2022, 11, 130-140.	10.3	5
114	A Review on Application of Poly(3,4-ethylenedioxythiophene) (PEDOT) in Rechargeable Batteries. Organic Materials, 2022, 4, 292-300.	2.1	0
115	Anodeâ€Free Full Cells: A Pathway to Highâ€Energy Density Lithiumâ€Metal Batteries. Advanced Energy Materials, 2021, 11, 2000804.	21.5	268
116	Ambientâ€Temperature Allâ€Solidâ€State Sodium Batteries with a Laminated Composite Electrolyte. Advanced Functional Materials, 2021, 31, 2002144.	16.0	69
117	An in-depth understanding of the effect of aluminum doping in high-nickel cathodes for lithium-ion batteries. Energy Storage Materials, 2021, 34, 229-240.	18.0	136
118	Cobalt-free, high-nickel layered oxide cathodes for lithium-ion batteries: Progress, challenges, and perspectives. Energy Storage Materials, 2021, 34, 250-259.	18.0	176
119	A review of composite polymer-ceramic electrolytes for lithium batteries. Energy Storage Materials, 2021, 34, 282-300.	18.0	275
120	Self-supported MoO2/MoS2 nano-sheets embedded in a carbon cloth as a binder-free substrate for high-energy lithiumâ€“sulfur batteries. Electrochimica Acta, 2021, 367, 137482.	5.3	26
121	Evoking High-Donor-Number-Assisted and Organosulfur-Mediated Conversion in Lithiumâ€“Sulfur Batteries. ACS Energy Letters, 2021, 6, 224-231.	17.8	58
122	Allâ€Solidâ€State Sodium Batteries with a Polyethylene Glycol Diacrylateâ€“Na₃Zr₂Si₂PO₁₂ Composite Electrolyte. Advanced Energy and Sustainability Research, 2021, 2, 2000061.	5.9	24
123	Toward sustainable batteries. Nature Sustainability, 2021, 4, 379-380.	20.4	31
124	Implications of in situ chalcogen substitutions in polysulfides for rechargeable batteries. Energy and Environmental Science, 2021, 14, 5423-5432.	31.3	46
125	Gustatory Dysfunction Is Closely Associated With Frailty in Patients With Chronic Kidney Disease. Journal of Renal Nutrition, 2021, 31, 49-56.	2.2	13
126	Role of DNA Methyl-CpG-Binding Protein MeCP2 in Rett Syndrome Pathobiology and Mechanism of Disease. Biomolecules, 2021, 11, 75.	4.1	40

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127	A review on infiltration techniques for energy conversion and storage devices: from fundamentals to applications. Sustainable Energy and Fuels, 2021, 5, 5024-5037.	4.7	20
128	In Honor of Nobel Laureate John B. Goodenough. Advanced Energy Materials, 2021, 11, 2002817.	21.5	1
129	Essential effect of the electrolyte on the mechanical and chemical degradation of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ cathodes upon long-term cycling. Journal of Materials Chemistry A, 2021, 9, 2111-2119.	10.3	18
130	Delineating the Lithiumâ€“Electrolyte Interfacial Chemistry and the Dynamics of Lithium Deposition in Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2003293.	21.5	50
131	Serum Response Factor (SRF) Drives the Transcriptional Upregulation of the MDM4 Oncogene in HCC. Cancers, 2021, 13, 199.	3.8	8
132	Unifying the clustering kinetics of lithium polysulfides with the nucleation behavior of Li₂S in lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2021, 9, 13242-13251.	10.3	34
133	Advances and Prospects of Highâ€Voltage Spinel Cathodes for Lithiumâ€Based Batteries. Small Methods, 2021, 5, e2001196.	9.3	71
134	Crossover Effects in Batteries with Highâ€Nickel Cathodes and Lithiumâ€Metal Anodes. Advanced Functional Materials, 2021, 31, 2010267.	16.0	73
135	Unraveling the Intricacies of Residual Lithium in High-Ni Cathodes for Lithium-Ion Batteries. ACS Energy Letters, 2021, 6, 941-948.	17.8	103
136	Sustainable Battery Materials for Nextâ€Generation Electrical Energy Storage. Advanced Energy and Sustainability Research, 2021, 2, 2000102.	5.9	67
137	Zinc-Doped High-Nickel, Low-Cobalt Layered Oxide Cathodes for High-Energy-Density Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 15324-15332.	8.1	99
138	Layered lithium cobalt oxide cathodes. Nature Energy, 2021, 6, 323-323.	28.8	87
139	High-Energy-Density, Long-Life Lithiumâ€“Sulfur Batteries with Practically Necessary Parameters Enabled by Low-Cost Feâ€“Ni Nanoalloy Catalysts. ACS Nano, 2021, 15, 8583-8591.	14.9	88
140	Stabilizing ultrahigh-nickel layered oxide cathodes for high-voltage lithium metal batteries. Materials Today, 2021, 44, 15-24.	17.6	60
141	Tailoring Lithium Polysulfide Coordination and Clustering Behavior through Cationic Electrostatic Competition. Chemistry of Materials, 2021, 33, 3457-3466.	6.8	37
142	A perspective on single-crystal layered oxide cathodes for lithium-ion batteries. Energy Storage Materials, 2021, 37, 143-160.	18.0	248
143	FAK inhibition alone or in combination with adjuvant therapies reduces cancer stem cell activity. Npj Breast Cancer, 2021, 7, 65.	5.3	20
144	Artificial dual solid-electrolyte interfaces based on in situ organothiol transformation in lithium sulfur battery. Nature Communications, 2021, 12, 3031.	12.8	163

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145	Ionic Liquid (IL) Laden Metalâ€“Organic Framework (IL-MOF) Electrolyte for Quasi-Solid-State Sodium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 24662-24669.	8.1	46
146	Intrinsic Li Distribution in Layered Transition-Metal Oxides Using Low-Dose Scanning Transmission Electron Microscopy and Spectroscopy. Chemistry of Materials, 2021, 33, 4638-4650.	6.8	7
147	Wet-CO₂ Pretreatment Process for Reducing Residual Lithium in High-Nickel Layered Oxides for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 27096-27105.	8.1	25
148	A review on the stability and surface modification of layered transition-metal oxide cathodes. Materials Today, 2021, 46, 155-182.	17.6	157
149	Inâ€Depth Analysis of the Degradation Mechanisms of Highâ€Nickel, Low/Noâ€Cobalt Layered Oxide Cathodes for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2100858.	21.5	99
150	Rationally Designed PEGDAâ€“LLZTO Composite Electrolyte for Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 30703-30711.	8.1	57
151	Dysprosium doping effects on perovskite oxides for air and fuel electrodes of solid oxide cells. Journal of Power Sources, 2021, 497, 229873.	7.9	11
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