

Arumugam Manthiram

List of Publications by Year in descending order

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papers

77,233
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#	ARTICLE	IF	CITATIONS
1	2,5-Dimercapto-1,3,4-Thiadiazole (DMCT)-Based Polymers for Rechargeable Metal-Sulfur Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	2
2	Next-Generation Energy Harvesting and Storage Technologies for Robots Across All Scales. <i>Advanced Intelligent Systems</i> , 2023, 5, .	3.3	10
3	Accessing a high-voltage nonaqueous hybrid flow battery with a sodium-methylphenothiazine chemistry and a sodium-ion solid electrolyte. <i>Energy Storage</i> , 2022, 4, e281.	2.3	4
4	Synthesis and characterization of $\text{Ca}_{3-x}\text{La}_x\text{Co}_{4-y}\text{Cu}_y\text{O}_{9+\delta}$ cathodes for intermediate temperature solid oxide fuel cells. <i>Ceramics International</i> , 2022, 48, 455-462.	2.3	10
5	A Self-Healable Sulfide/Polymer Composite Electrolyte for Long-Life, Low-Lithium-Excess Lithium-Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, 2106680.	7.8	28
6	Nonaqueous hybrid redox flow energy storage with a sodium-TEMPO chemistry and a single-ion solid electrolyte separator. <i>Energy Advances</i> , 2022, 1, 21-27.	1.4	3
7	In Situ Grown 1T-MoTe_2 Nanosheets on Carbon Nanotubes as an Efficient Electrocatalyst and Lithium Regulator for Stable Lithium-Sulfur Full Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	40
8	High-Performance Anode-Free Li-S Batteries with an Integrated Li_2S Electrocatalyst Cathode. <i>ACS Energy Letters</i> , 2022, 7, 583-590.	8.8	65
9	Principles and Challenges of Lithium-Sulfur Batteries. <i>Modern Aspects of Electrochemistry</i> , 2022, , 1-18.	0.2	1
10	High-efficiency, anode-free lithium-metal batteries with a close-packed homogeneous lithium morphology. <i>Energy and Environmental Science</i> , 2022, 15, 843-854.	15.6	53
11	A Facile Potential Hold Method for Fostering an Inorganic Solid-Electrolyte Interphase for Anode-Free Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	36
12	Creating a rechargeable world. <i>CheM</i> , 2022, 8, 312-318.	5.8	24
13	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. <i>Chemistry of Materials</i> , 2022, 34, 629-642.	3.2	38
14	Polyanionic insertion hosts for aqueous rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6376-6396.	5.2	14
15	Molten-Salt Synthesis of O_3 -Type Layered Oxide Single Crystal Cathodes with Controlled Morphology towards Long-Life Sodium-Ion Batteries. <i>Small</i> , 2022, 18, e2106927.	5.2	24
16	Insights into the Crossover Effects in Cells with High-Nickel Layered Oxide Cathodes and Silicon/Graphite Composite Anodes. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	32
17	Nanostructured Composite Foils Produced Via Accumulative Roll Bonding as Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11408-11414.	4.0	5
18	Operating High-Energy Lithium-Metal Pouch Cells with Reduced Stack Pressure Through a Rational Lithium-Host Design. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	10

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19	Covalent Organic Framework as an Efficient Protection Layer for a Stable Lithium-Metal Anode. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8
20	Foldable Solid-State Batteries Enabled by Electrolyte Mediation in Covalent Organic Frameworks. <i>Advanced Materials</i> , 2022, 34, e2201410.	11.1	57
21	Thiometallate-mediated polysulfide chemistry and lithium stabilization for stable anode-free lithium-sulfur batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 100808.	2.8	8
22	Covalent Organic Framework as an Efficient Protection Layer for a Stable Lithium-Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	45
23	Ethylene Carbonate-Free Electrolytes for Stable, Safer High-Nickel Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	27
24	Editors'™ Choice™ A Fruitful Transition of John B. Goodenough from Oxford to the University of Texas at Austin. <i>Journal of the Electrochemical Society</i> , 2022, 169, 034520.	1.3	1
25	Fast and Simple Ag/Cu Ion Exchange on Cu Foil for Anode-Free Lithium-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17454-17460.	4.0	21
26	Lithium Trithiocarbonate as a Dual-Function Electrode Material for High-Performance Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	17
27	Surface Stabilization with Fluorine of Layered Ultrahigh-Nickel Oxide Cathodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2022, 34, 4514-4522.	3.2	9
28	Protection of Cobalt-Free LiNiO ₂ from Degradation with Localized Saturated Electrolytes in Lithium-Metal Batteries. <i>ACS Energy Letters</i> , 2022, 7, 2165-2172.	8.8	37
29	Correction to "Surface Stabilization with Fluorine of Layered Ultrahigh-Nickel Oxide Cathodes for Lithium-Ion Batteries". <i>Chemistry of Materials</i> , 2022, 34, 5748-5748.	3.2	0
30	Stable Sodium-Based Batteries with Advanced Electrolytes and Layered-Oxide Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28865-28872.	4.0	11
31	John Goodenough's 100th Birthday Celebration: His Impact on Science and Humanity. <i>ACS Energy Letters</i> , 2022, 7, 2404-2406.	8.8	2
32	Mechanical Pulverization of Co-Free Nickel-Rich Cathodes for Improved High-Voltage Cycling of Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 6996-7005.	2.5	12
33	Paving Pathways Toward Long-Life Graphite/LiNi _{0.5} Mn _{1.5} O ₄ Full Cells: Electrochemical and Interphasial Points of View. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	19
34	Anode-Free Lithium-Sulfur Cells Enabled by Rationally Tuning Lithium Polysulfide Molecules. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5
35	Anode-Free Lithium-Sulfur Cells Enabled by Rationally Tuning Lithium Polysulfide Molecules. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	13
36	Anode-Free Full Cells: A Pathway to High-Energy Density Lithium-Metal Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2000804.	10.2	232

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37	Ambient-Temperature All-Solid-State Sodium Batteries with a Laminated Composite Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2002144.	7.8	63
38	An in-depth understanding of the effect of aluminum doping in high-nickel cathodes for lithium-ion batteries. <i>Energy Storage Materials</i> , 2021, 34, 229-240.	9.5	120
39	Cobalt-free, high-nickel layered oxide cathodes for lithium-ion batteries: Progress, challenges, and perspectives. <i>Energy Storage Materials</i> , 2021, 34, 250-259.	9.5	145
40	A review of composite polymer-ceramic electrolytes for lithium batteries. <i>Energy Storage Materials</i> , 2021, 34, 282-300.	9.5	233
41	Self-supported MoO ₂ /MoS ₂ nano-sheets embedded in a carbon cloth as a binder-free substrate for high-energy lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2021, 367, 137482.	2.6	24
42	Evoking High-Donor-Number-Assisted and Organosulfur-Mediated Conversion in Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2021, 6, 224-231.	8.8	51
43	All-Solid-State Sodium Batteries with a Polyethylene Glycol Diacrylate-Na ₃ Zr ₂ Si ₂ PO ₁₂ Composite Electrolyte. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000061.	2.8	19
44	Toward sustainable batteries. <i>Nature Sustainability</i> , 2021, 4, 379-380.	11.5	27
45	Implications of <i>in situ</i> chalcogen substitutions in polysulfides for rechargeable batteries. <i>Energy and Environmental Science</i> , 2021, 14, 5423-5432.	15.6	43
46	A Bifunctional Hybrid Electrocatalyst for Oxygen Reduction and Oxygen Evolution Reactions: Nano-Co ₃ O ₄ -Deposited La _{0.5} Sr _{0.5} MnO ₃ via Infiltration. <i>Molecules</i> , 2021, 26, 277.	1.7	5
47	A review on infiltration techniques for energy conversion and storage devices: from fundamentals to applications. <i>Sustainable Energy and Fuels</i> , 2021, 5, 5024-5037.	2.5	18
48	In Honor of Nobel Laureate John B. Goodenough. <i>Advanced Energy Materials</i> , 2021, 11, 2002817.	10.2	1
49	Essential effect of the electrolyte on the mechanical and chemical degradation of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ cathodes upon long-term cycling. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2111-2119.	5.2	14
50	Delineating the Lithium-Electrolyte Interfacial Chemistry and the Dynamics of Lithium Deposition in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003293.	10.2	39
51	Unifying the clustering kinetics of lithium polysulfides with the nucleation behavior of Li ₂ S in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13242-13251.	5.2	28
52	Advances and Prospects of High-Voltage Spinel Cathodes for Lithium-Based Batteries. <i>Small Methods</i> , 2021, 5, e2001196.	4.6	63
53	Crossover Effects in Batteries with High-Nickel Cathodes and Lithium-Metal Anodes. <i>Advanced Functional Materials</i> , 2021, 31, 2010267.	7.8	65
54	Unraveling the Intricacies of Residual Lithium in High-Ni Cathodes for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2021, 6, 941-948.	8.8	86

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55	Sustainable Battery Materials for Next-Generation Electrical Energy Storage. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000102.	2.8	52
56	Zinc-Doped High-Nickel, Low-Cobalt Layered Oxide Cathodes for High-Energy-Density Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15324-15332.	4.0	84
57	Layered lithium cobalt oxide cathodes. <i>Nature Energy</i> , 2021, 6, 323-323.	19.8	75
58	High-Energy-Density, Long-Life Lithium-Sulfur Batteries with Practically Necessary Parameters Enabled by Low-Cost Fe-Ni Nanoalloy Catalysts. <i>ACS Nano</i> , 2021, 15, 8583-8591.	7.3	75
59	Stabilizing ultrahigh-nickel layered oxide cathodes for high-voltage lithium metal batteries. <i>Materials Today</i> , 2021, 44, 15-24.	8.3	53
60	Tailoring Lithium Polysulfide Coordination and Clustering Behavior through Cationic Electrostatic Competition. <i>Chemistry of Materials</i> , 2021, 33, 3457-3466.	3.2	31
61	A perspective on single-crystal layered oxide cathodes for lithium-ion batteries. <i>Energy Storage Materials</i> , 2021, 37, 143-160.	9.5	210
62	Artificial dual solid-electrolyte interfaces based on in situ organothiol transformation in lithium sulfur battery. <i>Nature Communications</i> , 2021, 12, 3031.	5.8	138
63	Ionic Liquid (IL) Laden Metal-Organic Framework (IL-MOF) Electrolyte for Quasi-Solid-State Sodium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24662-24669.	4.0	42
64	Intrinsic Li Distribution in Layered Transition-Metal Oxides Using Low-Dose Scanning Transmission Electron Microscopy and Spectroscopy. <i>Chemistry of Materials</i> , 2021, 33, 4638-4650.	3.2	7
65	Wet-CO ₂ Pretreatment Process for Reducing Residual Lithium in High-Nickel Layered Oxides for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27096-27105.	4.0	23
66	A review on the stability and surface modification of layered transition-metal oxide cathodes. <i>Materials Today</i> , 2021, 46, 155-182.	8.3	132
67	In-Depth Analysis of the Degradation Mechanisms of High-Nickel, Low/No-Cobalt Layered Oxide Cathodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100858.	10.2	79
68	Rationally Designed PEGDA-LLZTO Composite Electrolyte for Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30703-30711.	4.0	51
69	Dysprosium doping effects on perovskite oxides for air and fuel electrodes of solid oxide cells. <i>Journal of Power Sources</i> , 2021, 497, 229873.	4.0	11
70	Elemental Foil Anodes for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2666-2672.	8.8	55
71	Unveiling the Stabilities of Nickel-Based Layered Oxide Cathodes at an Identical Degree of Delithiation in Lithium-Based Batteries. <i>Advanced Materials</i> , 2021, 33, e2100804.	11.1	62
72	Lithium-based polyanion oxide cathodes. <i>Nature Energy</i> , 2021, 6, 844-845.	19.8	25

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73	Rational Design of Coating Ions via Advantageous Surface Reconstruction in High-Nickel Layered Oxide Cathodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101112.	10.2	58
74	Understanding Zn-Ion Insertion Chemistry through Nonaqueous Electrochemical Investigation of 2H-NbSe ₂ . <i>Advanced Materials Interfaces</i> , 2021, 8, 2100878.	1.9	3
75	Influence of Calendering on the Electrochemical Performance of LiNi _{0.9} Mn _{0.05} Al _{0.05} O ₂ Cathodes in Lithium-Ion Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42898-42908.	4.0	37
76	Understanding the Limited Electrochemical Zn-Ion Insertion into 2H-MoS ₂ and 2H-WSe ₂ : A Case Study of 2H-NbS ₂ . <i>ACS Applied Energy Materials</i> , 2021, 4, 8849-8856.	2.5	3
77	Long-life LiNi _{0.5} Mn _{1.5} O ₄ /graphite lithium-ion cells with an artificial graphite-electrolyte interface. <i>Energy Storage Materials</i> , 2021, 43, 499-508.	9.5	22
78	Surface-Modified Na(Ni _{0.3} Fe _{0.4} Mn _{0.3})O ₂ Cathodes with Enhanced Cycle Life and Air Stability for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 11735-11742.	2.5	31
79	A Cobalt- and Manganese-Free High-Nickel Layered Oxide Cathode for Long-Life, Safer Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, .	10.2	79
80	Role of Electrolyte in Overcoming the Challenges of LiNiO ₂ Cathode in Lithium Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3809-3816.	8.8	34
81	Aluminum-Silicon Alloy Foils as Low-Cost, Environmentally Friendly Anodes for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 14515-14524.	3.2	17
82	Stable Dendrite-Free Sodium-Sulfur Batteries Enabled by a Localized High-Concentration Electrolyte. <i>Journal of the American Chemical Society</i> , 2021, 143, 20241-20248.	6.6	71
83	Long-Term Cycling of a Mn-Rich High-Voltage Spinel Cathode by Stabilizing the Surface with a Small Dose of Iron. <i>ACS Applied Energy Materials</i> , 2021, 4, 13297-13306.	2.5	7
84	An In-Depth Analysis of the Transformation of Tin Foil Anodes during Electrochemical Cycling in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120544.	1.3	4
85	Nitrate additives for lithium batteries: Mechanisms, applications, and prospects. <i>EScience</i> , 2021, 1, 108-123.	25.0	98
86	Thermodynamics of Antisite Defects in Layered NMC Cathodes: Systematic Insights from High-Precision Powder Diffraction Analyses. <i>Chemistry of Materials</i> , 2020, 32, 1002-1010.	3.2	44
87	Toward Long-Life, Ultrahigh-Nickel Layered Oxide Cathodes for Lithium-Ion Batteries: Optimizing the Interphase Chemistry with a Dual-Functional Polymer. <i>Chemistry of Materials</i> , 2020, 32, 759-768.	3.2	14
88	A Unique Single-Ion Mediation Approach for Crossover-Free Nonaqueous Redox Flow Batteries with a Na + Ion Solid Electrolyte. <i>Small Methods</i> , 2020, 4, 1900697.	4.6	7
89	Tailoring the Pore Size of a Polypropylene Separator with a Polymer Having Intrinsic Nanoporosity for Suppressing the Polysulfide Shuttle in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1902872.	10.2	72
90	Long-Life, High-Rate Lithium-Sulfur Cells with a Carbon-Free VN Host as an Efficient Polysulfide Adsorbent and Lithium Dendrite Inhibitor. <i>Advanced Energy Materials</i> , 2020, 10, 1903241.	10.2	120

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91	High-Energy, Single-Ion-Mediated Nonaqueous Zinc-TEMPO Redox Flow Battery. ACS Applied Materials & Interfaces, 2020, 12, 48654-48661.	4.0	13
92	Towards more environmentally and socially responsible batteries. Energy and Environmental Science, 2020, 13, 4087-4097.	15.6	74
93	Industrialization of Layered Oxide Cathodes for Lithium-ion and Sodium-ion Batteries: A Comparative Perspective. Energy Technology, 2020, 8, 2000723.	1.8	36
94	A Review of the Design of Advanced Binders for High-Performance Batteries. Advanced Energy Materials, 2020, 10, 2002508.	10.2	202
95	Enabling high areal capacity for Co-free high voltage spinel materials in next-generation Li-ion batteries. Journal of Power Sources, 2020, 473, 228579.	4.0	55
96	Impact of Residual Lithium on the Adoption of High-Nickel Layered Oxide Cathodes for Lithium-ion Batteries. Chemistry of Materials, 2020, 32, 9479-9489.	3.2	81
97	Synthesis of LiNiO ₂ at Moderate Oxygen Pressure and Long-Term Cyclability in Lithium-ion Full Cells. ACS Applied Materials & Interfaces, 2020, 12, 52826-52835.	4.0	51
98	Degradation of High-Nickel Layered Oxide Cathodes from Surface to Bulk: A Comprehensive Structural, Chemical, and Electrical Analysis. Advanced Energy Materials, 2020, 10, 2001035.	10.2	66
99	Xanthogen Polysulfides as a New Class of Electrode Material for Rechargeable Batteries. Advanced Energy Materials, 2020, 10, 2001658.	10.2	36
100	Long-Life, Ultrahigh-Nickel Cathodes with Excellent Air Storage Stability for High-Energy Density Lithium-Based Batteries. Chemistry of Materials, 2020, 32, 7413-7424.	3.2	49
101	Designing Advanced Lithium-Based Batteries for Low-Temperature Conditions. Advanced Energy Materials, 2020, 10, 2001972.	10.2	225
102	Complementary Effects of Mg and Cu Incorporation in Stabilizing the Cobalt-Free LiNiO ₂ Cathode for Lithium-ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 43653-43664.	4.0	46
103	Synthesis Control of Layered Oxide Cathodes for Sodium-ion Batteries: A Necessary Step Toward Practicality. Chemistry of Materials, 2020, 32, 8431-8441.	3.2	31
104	3D CoSe@C Aerogel as a Host for Dendrite-Free Lithium-Metal Anode and Efficient Sulfur Cathode in Li-S Full Cells. Advanced Energy Materials, 2020, 10, 2002654.	10.2	140
105	Direct Urea Fuel Cells: Recent Progress and Critical Challenges of Urea Oxidation Electrocatalysis. Advanced Energy and Sustainability Research, 2020, 1, 2000015.	2.8	45
106	Long-Term Cyclability of NCM-811 at High Voltages in Lithium-ion Batteries: an In-Depth Diagnostic Study. Chemistry of Materials, 2020, 32, 7796-7804.	3.2	152
107	Molybdenum Boride as an Efficient Catalyst for Polysulfide Redox to Enable High-Energy-Density Lithium-Sulfur Batteries. Advanced Materials, 2020, 32, e2004741.	11.1	148
108	Recent Advances in Lithium-Carbon Dioxide Batteries. Small Structures, 2020, 1, 2000027.	6.9	57

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109	A Progress Report on Metal-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2004084.	7.8	78
110	Delineating the Capacity Fading Mechanisms of Na(Ni _{0.3} Fe _{0.4} Mn _{0.3})O ₂ at Higher Operating Voltages in Sodium-Ion Cells. <i>Chemistry of Materials</i> , 2020, 32, 7389-7396.	3.2	25
111	Proton-Induced Disproportionation of Jahn-Teller-Active Transition-Metal Ions in Oxides Due to Electronically Driven Lattice Instability. <i>Journal of the American Chemical Society</i> , 2020, 142, 21122-21130.	6.6	35
112	Free Radicals: A Marriage of Solid State Science and Electrochemistry. <i>Electrochemical Society Interface</i> , 2020, 29, 34-35.	0.3	0
113	1T ₂ ReS ₂ Nanosheets In Situ Grown on Carbon Nanotubes as a Highly Efficient Polysulfide Electrocatalyst for Stable Li-S Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001017.	10.2	145
114	An Artificial Protective Coating toward Dendrite-Free Lithium-Metal Anodes for Lithium-Sulfur Batteries. <i>Energy Technology</i> , 2020, 8, 2000348.	1.8	19
115	Anode-free, Lean-Electrolyte Lithium-Sulfur Batteries Enabled by Tellurium-Stabilized Lithium Deposition. <i>Joule</i> , 2020, 4, 1121-1135.	11.7	126
116	Recent Progress in High Donor Electrolytes for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001456.	10.2	112
117	A Metal Organic Framework Derived Solid Electrolyte for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001285.	10.2	77
118	In-Situ Assembled VS ₄ as a Polysulfide Mediator for High-Loading Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1177-1185.	8.8	120
119	Insights into the Cathode-Electrolyte Interphases of High-Energy-Density Cathodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16451-16461.	4.0	60
120	A reflection on lithium-ion battery cathode chemistry. <i>Nature Communications</i> , 2020, 11, 1550.	5.8	1,398
121	Reining in dissolved transition-metal ions. <i>Science</i> , 2020, 369, 140-141.	6.0	134
122	Freestanding vanadium nitride nanowire membrane as an efficient, carbon-free gas diffusion cathode for Li-CO ₂ batteries. <i>Energy Storage Materials</i> , 2020, 31, 95-104.	9.5	20
123	Multivalent-Ion versus Proton Insertion into Battery Electrodes. <i>ACS Energy Letters</i> , 2020, 5, 2367-2375.	8.8	81
124	Single Ni Atoms and Clusters Embedded in N-Doped Carbon Tubes on Fibers-Matrix with Bifunctional Activity for Water Splitting at High Current Densities. <i>Small</i> , 2020, 16, e2002511.	5.2	38
125	Lithium degradation in lithium-sulfur batteries: insights into inventory depletion and interphasial evolution with cycling. <i>Energy and Environmental Science</i> , 2020, 13, 2501-2514.	15.6	88
126	High-Nickel NMA: A Cobalt-Free Alternative to NMC and NCA Cathodes for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2002718.	11.1	205

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127	Influence of Lithium Polysulfide Clustering on the Kinetics of Electrochemical Conversion in Lithium-Sulfur Batteries. Chemistry of Materials, 2020, 32, 2070-2077.	3.2	76
128	Lithium-Sulfur Batteries: Attaining the Critical Metrics. Joule, 2020, 4, 285-291.	11.7	489
129	A Long Cycle Life, All-Solid-State Lithium Battery with a Ceramic-Polymer Composite Electrolyte. ACS Applied Energy Materials, 2020, 3, 2916-2924.	2.5	73
130	Rational Design of a Laminated Dual-Polymer/Polymer-Ceramic Composite Electrolyte for High-Voltage All-Solid-State Lithium Batteries. , 2020, 2, 317-324.		59
131	High-nickel layered oxide cathodes for lithium-based automotive batteries. Nature Energy, 2020, 5, 26-34.	19.8	940
132	A mediator-ion nitrobenzene - iodine nonaqueous redox flow battery with asymmetric solvents. Energy Storage Materials, 2020, 29, 266-272.	9.5	12
133	A pair of metal organic framework (MOF)-derived oxygen reduction reaction (ORR) and oxygen evolution reaction (OER) catalysts for zinc-air batteries. Materials Today Energy, 2020, 16, 100405.	2.5	58
134	Unveiling the Charge Storage Mechanism in Nonaqueous and Aqueous Zn/Na ₃ V ₂ (PO ₄) ₂ F ₃ Batteries. ACS Applied Energy Materials, 2020, 3, 5015-5023.	2.5	32
135	The critical effect of water content in the electrolyte on the reversible electrochemical performance of Zn-VPO ₄ F cells. Journal of Materials Chemistry A, 2020, 8, 8262-8267.	5.2	19
136	Lattice doping regulated interfacial reactions in cathode for enhanced cycling stability. Nature Communications, 2019, 10, 3447.	5.8	116
137	A 3D Lithiophilic Mo ₂ N-Modified Carbon Nanofiber Architecture for Dendrite-Free Lithium-Metal Anodes in a Full Cell. Advanced Materials, 2019, 31, e1904537.	11.1	139
138	Efficient Li-CO ₂ Batteries with Molybdenum Disulfide Nanosheets on Carbon Nanotubes as a Catalyst. ACS Applied Energy Materials, 2019, 2, 8685-8694.	2.5	40
139	A Comprehensive Analysis of the Interphasial and Structural Evolution over Long-Term Cycling of Ultrahigh-Nickel Cathodes in Lithium-Ion Batteries. Advanced Energy Materials, 2019, 9, 1902731.	10.2	131
140	Less pore equals more. Nature Energy, 2019, 4, 908-909.	19.8	9
141	Energy Spotlight. ACS Energy Letters, 2019, 4, 2763-2769.	8.8	1
142	Insights into Boron-Based Polyanion-Tuned High-Nickel Cathodes for High-Energy-Density Lithium-Ion Batteries. Chemistry of Materials, 2019, 31, 8886-8897.	3.2	71
143	A Mg-Doped High-Nickel Layered Oxide Cathode Enabling Safer, High-Energy-Density Li-Ion Batteries. Chemistry of Materials, 2019, 31, 938-946.	3.2	288
144	Freestanding 1T MoS ₂ /graphene heterostructures as a highly efficient electrocatalyst for lithium polysulfides in Li-S batteries. Energy and Environmental Science, 2019, 12, 344-350.	15.6	510

#	ARTICLE	IF	CITATIONS
145	Ethylene Carbonate-Free Electrolytes for High-Nickel Layered Oxide Cathodes in Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901152.	10.2	78
146	A Li_2S - Ti_2S_7 Electrolyte Composite for Stable Li_2S -Based Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901397.	10.2	41
147	Sodium-Sulfur Batteries with a Polymer-Coated NASICON-type Sodium-Ion Solid Electrolyte. <i>Matter</i> , 2019, 1, 439-451.	5.0	75
148	A High-Performance All-Solid-State Sodium Battery with a Poly(ethylene) Terephthalate (PET) Overcoat. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 132-138.		81
149	Insights into the Improved Chemical Stability against Water of LiF-Incorporated Layered Oxide Cathodes for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 89-95.		39
150	A review on the status and challenges of electrocatalysts in lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019, 20, 55-70.	9.5	349
151	Three-dimensional $\text{Fe}_3\text{O}_4/\text{N}$ -graphene sponge as an efficient organosulfide host for high-performance lithium-organosulfur batteries. <i>Energy Storage Materials</i> , 2019, 23, 88-94.	9.5	30
152	Current Status and Future Prospects of Metal-Sulfur Batteries. <i>Advanced Materials</i> , 2019, 31, e1901125.	11.1	422
153	Bifunctional Binder with Nucleophilic Lithium Polysulfide Immobilization Ability for High-Loading, High-Thickness Cathodes in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17393-17399.	4.0	24
154	Long-Life Polysulfide-Polyhalide Batteries with a Mediator-Ion Solid Electrolyte. <i>ACS Applied Energy Materials</i> , 2019, 2, 3445-3451.	2.5	26
155	Phenyl Disulfide Additive for Solution-Mediated Carbon Dioxide Utilization in LiCO_2 Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900453.	10.2	43
156	CO_2 -tolerant $(\text{Y,Tb})\text{Ba}(\text{Co,Ga})_4\text{O}_7$ cathodes with low thermal expansion for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8540-8549.	5.2	11
157	Collapse of $\text{LiNi}_{1-x}\text{Co}_x\text{Mn}_y\text{O}_2$ Lattice at Deep Charge Irrespective of Nickel Content in Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019, 141, 5097-5101.	6.6	299
158	Biomass-Derived 3D Carbon Aerogel with Carbon Shell-Confined Binary Metallic Nanoparticles in CNTs as an Efficient Electrocatalyst for Microfluidic Direct Ethylene Glycol Fuel Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803238.	10.2	88
159	Pyrolic-Type Nitrogen-Doped Hierarchical Macro/Mesoporous Carbon as a Bifunctional Host for High-Performance Thick Cathodes for Lithium-Sulfur Batteries. <i>Small</i> , 2019, 15, e1900690.	5.2	37
160	Mass Transfer of Divalent Ions in an Oxide Host: Comparison of Mg^{2+} and Zn^{2+} Diffusion in Hexagonal $\text{K}_x\text{W}_3\text{O}_9$ Bronze. <i>Chemistry of Materials</i> , 2019, 31, 2296-2307.	3.2	11
161	Hierarchical tri-functional electrocatalysts derived from bimetallic-imidazolate framework for overall water splitting and rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8641-8652.	5.2	41
162	Sodium-based batteries: from critical materials to battery systems. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9406-9431.	5.2	199

#	ARTICLE	IF	CITATIONS
163	Metal Sulfide-Decorated Carbon Sponge as a Highly Efficient Electrocatalyst and Absorbant for Polysulfide in High-Loading Li ₂ S Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900584.	10.2	194
164	Development of low-cost sodium-aqueous polysulfide hybrid batteries. <i>Energy Storage Materials</i> , 2019, 19, 346-351.	9.5	29
165	Structural impact of Zn-insertion into monoclinic V ₂ (PO ₄) ₃ : implications for Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7159-7167.	5.2	30
166	Pathways for practical high-energy long-cycling lithium metal batteries. <i>Nature Energy</i> , 2019, 4, 180-186.	19.8	2,101
167	Zn-Sn Interdigitated Eutectic Alloy Anodes with High Volumetric Capacity for Lithium-Ion Batteries. <i>Joule</i> , 2019, 3, 1051-1063.	11.7	49
168	Toward a Reversible Calcium-Sulfur Battery with a Lithium-Ion Mediation Approach. <i>Advanced Energy Materials</i> , 2019, 9, 1803794.	10.2	43
169	An ant-nest-like cathode substrate for lithium-sulfur batteries with practical cell fabrication parameters. <i>Energy Storage Materials</i> , 2019, 18, 491-499.	9.5	16
170	Designing a high-loading sulfur cathode with a mixed ionic-electronic conducting polymer for electrochemically stable lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019, 17, 317-324.	9.5	63
171	Enhanced Interfacial Stability of Hybrid Electrolyte Lithium-Sulfur Batteries with a Layer of Multifunctional Polymer with Intrinsic Nanoporosity. <i>Advanced Functional Materials</i> , 2019, 29, 1805996.	7.8	47
172	Electrochemical properties of Sr _{2.7-x} CaxLn _{0.3} Fe _{2-y} CoyO _{7-Î} cathode for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1896-1904.	3.8	15
173	Rationally Designed High-Sulfur-Content Polymeric Cathode Material for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6136-6142.	4.0	57
174	Highly Solvating Electrolytes for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803096.	10.2	193
175	Understanding the Air-Exposure Degradation Chemistry at a Nanoscale of Layered Oxide Cathodes for Sodium-Ion Batteries. <i>Nano Letters</i> , 2019, 19, 182-188.	4.5	122
176	Facilitating the Operation of Lithium-Ion Cells with High-Nickel Layered Oxide Cathodes with a Small Dose of Aluminum. <i>Chemistry of Materials</i> , 2018, 30, 3101-3109.	3.2	119
177	A three-dimensional self-assembled SnS ₂ -nano-dots@graphene hybrid aerogel as an efficient polysulfide reservoir for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7659-7667.	5.2	95
178	Modified High-Nickel Cathodes with Stable Surface Chemistry Against Ambient Air for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6480-6485.	7.2	234
179	Modified High-Nickel Cathodes with Stable Surface Chemistry Against Ambient Air for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018, 130, 6590-6595.	1.6	38
180	Designing Lithium-Sulfur Cells with Practically Necessary Parameters. <i>Joule</i> , 2018, 2, 710-724.	11.7	148

#	ARTICLE	IF	CITATIONS
181	Room-Temperature Aluminum-Sulfur Batteries with a Lithium-Ion-Mediated Ionic Liquid Electrolyte. <i>CheM</i> , 2018, 4, 586-598.	5.8	127
182	A Membraneless Direct Isopropanol Fuel Cell (DIPAFC) Operated with a Catalyst-Selective Principle. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13558-13563.	1.5	13
183	Mn versus Al in Layered Oxide Cathodes in Lithium-Ion Batteries: A Comprehensive Evaluation on Long-Term Cyclability. <i>Advanced Energy Materials</i> , 2018, 8, 1703154.	10.2	260
184	TiS ₂ Polysulfide Hybrid Cathode with High Sulfur Loading and Low Electrolyte Consumption for Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2018, 3, 568-573.	8.8	138
185	Interfacial Chemistry in Solid-State Batteries: Formation of Interphase and Its Consequences. <i>Journal of the American Chemical Society</i> , 2018, 140, 250-257.	6.6	239
186	Rational Design of Statically and Dynamically Stable Lithium-Sulfur Batteries with High Sulfur Loading and Low Electrolyte/Sulfur Ratio. <i>Advanced Materials</i> , 2018, 30, 1705951.	11.1	167
187	Controlling the polysulfide diffusion in lithium-sulfur batteries with a polymer membrane with intrinsic nanoporosity. <i>Materials Today Energy</i> , 2018, 7, 98-104.	2.5	31
188	Electrochemical Energy Storage with an Aqueous Zinc-Quinone Chemistry Enabled by a Mediator-Ion Solid Electrolyte. <i>ACS Applied Energy Materials</i> , 2018, 1, 273-277.	2.5	15
189	Electrode-electrolyte interfaces in lithium-based batteries. <i>Energy and Environmental Science</i> , 2018, 11, 527-543.	15.6	474
190	Scalable Membraneless Direct Liquid Fuel Cells Based on a Catalyst-Selective Strategy. <i>Energy and Environmental Materials</i> , 2018, 1, 13-19.	7.3	13
191	Self-Regenerating Co-Fe Nanoparticles on Perovskite Oxides as a Hydrocarbon Fuel Oxidation Catalyst in Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2018, 30, 2515-2525.	3.2	74
192	Evolution of Exsolved Nanoparticles on a Perovskite Oxide Surface during a Redox Process. <i>Chemistry of Materials</i> , 2018, 30, 2838-2847.	3.2	77
193	Rechargeable Zinc-Aqueous Polysulfide Battery with a Mediator-Ion Solid Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10612-10617.	4.0	41
194	3D Hierarchical Core-Shell Nanostructured Arrays on Carbon Fibers as Catalysts for Direct Urea Fuel Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1702207.	10.2	182
195	Progress in High-Voltage Cathode Materials for Rechargeable Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701785.	10.2	371
196	Nanostructured Host Materials for Trapping Sulfur in Rechargeable Li-S Batteries: Structure Design and Interfacial Chemistry. <i>Small Methods</i> , 2018, 2, 1700279.	4.6	201
197	Covalently Grafted Polysulfur-Graphene Nanocomposites for Ultrahigh Sulfur-Loading Lithium-Polysulfur Batteries. <i>ACS Energy Letters</i> , 2018, 3, 72-77.	8.8	66
198	Effect of Ca substitution on the electrochemical properties of the Ruddlesden-Popper oxides Sr _{3-2x} Ca _x Ln _{0.8} Fe _{1.5} Co _{1.5} O ₁₀₋₁ . <i>Journal of Power Sources</i> , 2018, 374, 249-256.	4.0	16

#	ARTICLE	IF	CITATIONS
199	Long Cycle Life, Low Self-Discharge Sodium-Selenium Batteries with High Selenium Loading and Suppressed Polyselenide Shuttling. <i>Advanced Energy Materials</i> , 2018, 8, 1701953.	10.2	84
200	3D flower-like hierarchical NiCo ₂ O ₄ architecture on carbon cloth fibers as an anode catalyst for high-performance, durable direct urea fuel cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23019-23027.	5.2	62
201	Delithiation/lithiation behaviors of three polymorphs of LiVOPO ₄ . <i>Chemical Communications</i> , 2018, 54, 13224-13227.	2.2	14
202	A core-shell cathode substrate for developing high-loading, high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24841-24847.	5.2	20
203	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
204	Aqueous Polysulfide-Air Battery with a Mediator-Ion Solid Electrolyte and a Copper Sulfide Catalyst for Polysulfide Redox. <i>ACS Applied Energy Materials</i> , 2018, 1, 7230-7236.	2.5	8
205	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
206	Extending the limits of powder diffraction analysis: Diffraction parameter space, occupancy defects, and atomic form factors. <i>Review of Scientific Instruments</i> , 2018, 89, 093002.	0.6	18
207	Nanostructured Anatase Titania as a Cathode Catalyst for Li-CO ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37119-37124.	4.0	68
208	Extending the Service Life of High-Ni Layered Oxides by Tuning the Electrode-Electrolyte Interphase. <i>Advanced Energy Materials</i> , 2018, 8, 1801957.	10.2	171
209	Progress on the Critical Parameters for Lithium-Sulfur Batteries to be Practically Viable. <i>Advanced Functional Materials</i> , 2018, 28, 1801188.	7.8	368
210	Hybrid Lithium-Sulfur Batteries with an Advanced Gel Cathode and Stabilized Lithium-Metal Anode. <i>Advanced Energy Materials</i> , 2018, 8, 1800813.	10.2	50
211	MOF-derived Cobalt Sulfide Grown on 3D Graphene Foam as an Efficient Sulfur Host for Long-Life Lithium-Sulfur Batteries. <i>IScience</i> , 2018, 4, 36-43.	1.9	155
212	Three-Dimensional Graphene-Carbon Nanotube-Ni Hierarchical Architecture as a Polysulfide Trap for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20627-20634.	4.0	72
213	Electrochemical Energy Storage with an Aqueous Quinone-Air Chemistry. <i>ACS Applied Energy Materials</i> , 2018, 1, 2424-2428.	2.5	9
214	Insights into the Improved High-Voltage Performance of Li-Incorporated Layered Oxide Cathodes for Sodium-Ion Batteries. <i>CheM</i> , 2018, 4, 2124-2139.	5.8	128
215	A reversible nonaqueous room-temperature potassium-sulfur chemistry for electrochemical energy storage. <i>Energy Storage Materials</i> , 2018, 15, 368-373.	9.5	62
216	Thin-Layered Molybdenum Disulfide Nanoparticles as an Effective Polysulfide Mediator in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23122-23130.	4.0	39

#	ARTICLE	IF	CITATIONS
217	Toward Highly Reversible Magnesium-Sulfur Batteries with Efficient and Practical $\text{Mg[B(hfip)}_4]_2$ Electrolyte. ACS Energy Letters, 2018, 3, 2005-2013.	8.8	234
218	Effects of trivalent dopants on phase stability and catalytic activity of YBaCo_4O_7 -based cathodes in solid oxide fuel cells. Journal of Materials Chemistry A, 2018, 6, 16412-16420.	5.2	8
219	A Lithium-Sulfur Cell Based on Reversible Lithium Deposition from a Li_2S Cathode Host onto a Hostless Anode Substrate. Advanced Energy Materials, 2018, 8, 1801556.	10.2	85
220	Long-Life Lithium-Sulfur Batteries with a Bifunctional Cathode Substrate Configured with Boron Carbide Nanowires. Advanced Materials, 2018, 30, e1804149.	11.1	120
221	A strategically managed rechargeable battery system with a neutral methyl viologen anolyte and an acidic air-cathode enabled by a mediator-ion solid electrolyte. Sustainable Energy and Fuels, 2018, 2, 1452-1457.	2.5	7
222	Rational Design of a Dual-Function Hybrid Cathode Substrate for Lithium-Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1801014.	10.2	103
223	Toward Reversible Room-Temperature Calcium-Ion Batteries. Chem, 2018, 4, 1200-1202.	5.8	11
224	Vertical Co_9S_8 hollow nanowall arrays grown on a Celgard separator as a multifunctional polysulfide barrier for high-performance Li-S batteries. Energy and Environmental Science, 2018, 11, 2560-2568.	15.6	486
225	Direct growth of ternary Ni-Fe-P porous nanorods onto nickel foam as a highly active, robust bi-functional electrocatalyst for overall water splitting. Journal of Materials Chemistry A, 2017, 5, 2496-2503.	5.2	172
226	Aqueous Electrochemical Energy Storage with a Mediator-Ion Solid Electrolyte. Advanced Energy Materials, 2017, 7, 1602454.	10.2	27
227	Hollow cobalt sulfide polyhedra-enabled long-life, high areal-capacity lithium-sulfur batteries. Nano Energy, 2017, 33, 124-129.	8.2	150
228	A High-Performance Sodium-Ion Full Cell with a Layered Oxide Cathode and a Phosphorous-Based Composite Anode. Journal of the Electrochemical Society, 2017, 164, A321-A326.	1.3	23
229	Highly flexible, freestanding tandem sulfur cathodes for foldable Li-S batteries with a high areal capacity. Materials Horizons, 2017, 4, 249-258.	6.4	78
230	Sulfur-Immobilized, Activated Porous Carbon Nanotube Composite Based Cathodes for Lithium-Sulfur Batteries. Small, 2017, 13, 1602984.	5.2	85
231	Self-Templated Synthesis of Co - and N -Doped Carbon Microtubes Composed of Hollow Nanospheres and Nanotubes for Efficient Oxygen Reduction Reaction. Small, 2017, 13, 1603437.	5.2	57
232	Inkjet-Printed Lithium-Sulfur Microcathodes for All-Printed, Integrated Nanomanufacturing. Small, 2017, 13, 1603786.	5.2	62
233	Hydroxylated N-doped carbon nanotube-sulfur composites as cathodes for high-performance lithium-sulfur batteries. Journal of Power Sources, 2017, 343, 54-59.	4.0	78
234	Dendrite-Free Lithium Anode via a Homogenous Li-Ion Distribution Enabled by a Kimwipe Paper. Advanced Sustainable Systems, 2017, 1, 1600034.	2.7	82

#	ARTICLE	IF	CITATIONS
235	Low-Cost High-Energy Potassium Cathode. <i>Journal of the American Chemical Society</i> , 2017, 139, 2164-2167.	6.6	446
236	Transforming waste newspapers into nitrogen-doped conducting interlayers for advanced Li ⁺ S batteries. <i>Sustainable Energy and Fuels</i> , 2017, 1, 444-449.	2.5	26
237	Long-Life Nickel-Rich Layered Oxide Cathodes with a Uniform Li ₂ ZrO ₃ Surface Coating for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9718-9725.	4.0	219
238	Lithium battery chemistries enabled by solid-state electrolytes. <i>Nature Reviews Materials</i> , 2017, 2, .	23.8	3,057
239	Copper-substituted Na _{0.67} Ni _{0.3} Cu _x Mn _{0.7} O ₂ cathode materials for sodium-ion batteries with suppressed P2 ⁺ O ₂ phase transition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8752-8761.	5.2	272
240	Wiring Fe ²⁺ Embedded Porous Carbon Framework onto 1D Nanotubes for Efficient Oxygen Reduction Reaction in Alkaline and Acidic Media. <i>Advanced Materials</i> , 2017, 29, 1606534.	11.1	342
241	Lithium ⁺ Sulfur Batteries with the Lowest Self-Discharge and the Longest Shelf life. <i>ACS Energy Letters</i> , 2017, 2, 1056-1061.	8.8	60
242	A Voltage-Enhanced, Low-Cost Aqueous Iron ⁺ Air Battery Enabled with a Mediator-Ion Solid Electrolyte. <i>ACS Energy Letters</i> , 2017, 2, 1050-1055.	8.8	39
243	Formation and Inhibition of Metallic Lithium Microstructures in Lithium Batteries Driven by Chemical Crossover. <i>ACS Nano</i> , 2017, 11, 5853-5863.	7.3	155
244	A Shell ⁺ Shaped Carbon Architecture with High ⁺ Loading Capability for Lithium Sulfide Cathodes. <i>Advanced Energy Materials</i> , 2017, 7, 1700537.	10.2	40
245	Phosphorus-Rich CuP ₂ Embedded in Carbon Matrix as a High-Performance Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16221-16227.	4.0	69
246	Dynamic behaviour of interphases and its implication on high-energy-density cathode materials in lithium-ion batteries. <i>Nature Communications</i> , 2017, 8, 14589.	5.8	306
247	High-voltage positive electrode materials for lithium-ion batteries. <i>Chemical Society Reviews</i> , 2017, 46, 3006-3059.	18.7	986
248	Electrochemical Energy Storage with a Reversible Nonaqueous Room ⁺ Temperature Aluminum ⁺ Sulfur Chemistry. <i>Advanced Energy Materials</i> , 2017, 7, 1700561.	10.2	134
249	Rational Design of Lithium ⁺ Sulfur Battery Cathodes Based on Experimentally Determined Maximum Active Material Thickness. <i>Journal of the American Chemical Society</i> , 2017, 139, 9229-9237.	6.6	38
250	Quantitative Analysis of Electrochemical and Electrode Stability with Low Self-Discharge Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20318-20323.	4.0	27
251	Vanadium-Substituted LiCoPO ₄ Core with a Monolithic LiFePO ₄ Shell for High-Voltage Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2017, 2, 64-69.	8.8	47
252	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium ⁺ Ion Batteries. <i>Angewandte Chemie</i> , 2017, 129, 771-774.	1.6	72

#	ARTICLE	IF	CITATIONS
253	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 753-756.	7.2	449
254	1D Co and N Doped Hierarchically Porous Carbon Nanotubes Derived from Bimetallic Metal Organic Framework for Efficient Oxygen and Triiodide Reduction Reactions. <i>Advanced Energy Materials</i> , 2017, 7, 1601979.	10.2	194
255	Microwave-assisted chemical insertion: a rapid technique for screening cathodes for Mg-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2309-2318.	5.2	22
256	Metal nanofoams via a facile microwave-assisted solvothermal process. <i>Chemical Communications</i> , 2017, 53, 865-868.	2.2	12
257	Ambient-Temperature Energy Storage with Polyvalent Metal-Sulfur Chemistry. <i>Small Methods</i> , 2017, 1, 1700217.	4.6	38
258	Boron- and nitrogen-doped reduced graphene oxide coated separators for high-performance Li-S batteries. <i>Journal of Power Sources</i> , 2017, 369, 87-94.	4.0	72
259	Cobalt Phosphide Coupled with Heteroatom-Doped Nanocarbon Hybrid Electrolysts for Efficient, Long-Life Rechargeable Zinc-Air Batteries. <i>Small</i> , 2017, 13, 1702068.	5.2	100
260	Rational Design of High-Loading Sulfur Cathodes with a Poached-Egg-Shaped Architecture for Long-Cycle Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2205-2211.	8.8	67
261	A rationally designed polysulfide-trapping interface on the polymeric separator for high-energy Li-S batteries. <i>Materials Today Energy</i> , 2017, 6, 72-78.	2.5	26
262	Impact of Microcrack Generation and Surface Degradation on a Nickel-Rich Layered $\text{Li}[\text{Ni}_{0.9}\text{Co}_{0.05}\text{Mn}_{0.05}]\text{O}_2$ Cathode for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 8486-8493.	3.2	350
263	Interdigitated Eutectic Alloy Foil Anodes for Rechargeable Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2422-2423.	8.8	18
264	Sulfonated polyether ether ketone/strontium zirconite@ TiO_2 nanocomposite membranes for direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20497-20504.	5.2	52
265	An Outlook on Lithium Ion Battery Technology. <i>ACS Central Science</i> , 2017, 3, 1063-1069.	5.3	997
266	Chemistry of Sputter-Deposited Lithium Sulfide Films. <i>Journal of the American Chemical Society</i> , 2017, 139, 10669-10676.	6.6	26
267	Oligoanilines as a suppressor of polysulfide shuttling in lithium-sulfur batteries. <i>Materials Horizons</i> , 2017, 4, 908-914.	6.4	24
268	Rechargeable Aluminum-Ion Batteries Based on an Open-Tunnel Framework. <i>Small</i> , 2017, 13, 1701296.	5.2	59
269	Yolk-Shelled $\text{C}@\text{Fe}_3\text{O}_4$ Nanoboxes as Efficient Sulfur Hosts for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1702707.	11.1	455
270	An Effective Lithium Sulfide Encapsulation Strategy for Stable Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1701122.	10.2	47

#	ARTICLE	IF	CITATIONS
271	A Zinc-Cerium Cell for Energy Storage Using a Sodium-Ion Exchange Membrane. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700082.	2.7	8
272	Surface Reconstruction in Li-Rich Layered Oxides of Li-Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 7668-7674.	3.2	45
273	Y-Doped NASICON-type $\text{LiZr}_2(\text{PO}_4)_3$ Solid Electrolytes for Lithium-Metal Batteries. <i>Chemistry of Materials</i> , 2017, 29, 7206-7212.	3.2	77
274	Electrochemical Energy Storage with Mediator-Ion Solid Electrolytes. <i>Joule</i> , 2017, 1, 453-462.	11.7	25
275	Electrode-Electrolyte Interfaces in Lithium-Sulfur Batteries with Liquid or Inorganic Solid Electrolytes. <i>Accounts of Chemical Research</i> , 2017, 50, 2653-2660.	7.6	158
276	A nickel-foam@carbon-shell with a pie-like architecture as an efficient polysulfide trap for high-energy Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15002-15007.	5.2	44
277	High-Performance Semicrystalline Poly(ether ketone)-Based Proton Exchange Membrane. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24527-24537.	4.0	60
278	A perspective on nickel-rich layered oxide cathodes for lithium-ion batteries. <i>Energy Storage Materials</i> , 2017, 6, 125-139.	9.5	478
279	Sulfur-Embedded Activated Multichannel Carbon Nanofiber Composites for Long-Life, High-Rate Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601943.	10.2	191
280	A Honeycomb-Layered Oxide Cathode for Sodium-Ion Batteries with Suppressed P3-O1 Phase Transition. <i>Advanced Energy Materials</i> , 2017, 7, 1601698.	10.2	87
281	Mesoporous Titanium Nitride-Enabled Highly Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016, 28, 6926-6931.	11.1	544
282	A High Energy Lithium-Sulfur Battery with Ultrahigh-Loading Lithium Polysulfide Cathode and its Failure Mechanism. <i>Advanced Energy Materials</i> , 2016, 6, 1502459.	10.2	282
283	Robust, Ultra-Tough Flexible Cathodes for High-Energy Li-S Batteries. <i>Small</i> , 2016, 12, 939-950.	5.2	59
284	Breaking Down the Crystallinity: The Path for Advanced Lithium Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501933.	10.2	77
285	Long-Life, High-Voltage Acidic Zn-Air Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502054.	10.2	84
286	Phase Stability, Oxygen-Storage Capability, and Electrocatalytic Activity in Solid Oxide Fuel Cells of (Y, Tj) ETQq0 0 0 rgBT /Overlock 10 T 28, 9077-9087.	3.2	17
287	Nickel-Rich and Lithium-Rich Layered Oxide Cathodes: Progress and Perspectives. <i>Advanced Energy Materials</i> , 2016, 6, 1501010.	10.2	946
288	Understanding the Redox Obstacles in High Sulfur-Loading Li-S Batteries and Design of an Advanced Gel Cathode. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1392-1399.	2.1	24

#	ARTICLE	IF	CITATIONS
289	An integrally-designed, flexible polysulfide host for high-performance lithium-sulfur batteries with stabilized lithium-metal anode. <i>Nano Energy</i> , 2016, 26, 224-232.	8.2	95
290	An Alternative Approach to Enhance the Performance of High Sulfur-Loading Electrodes for Liâ€S Batteries. <i>ACS Energy Letters</i> , 2016, 1, 136-141.	8.8	70
291	Aliovalent Substitution of V ³⁺ for Co ²⁺ in LiCoPO ₄ by a Low-Temperature Microwave-Assisted Solvothermal Process. <i>Chemistry of Materials</i> , 2016, 28, 1847-1853.	3.2	29
292	High-Energy-Density Lithiumâ€Sulfur Batteries Based on Blade-Cast Pure Sulfur Electrodes. <i>ACS Energy Letters</i> , 2016, 1, 46-51.	8.8	109
293	Combining Nitrogenâ€Doped Graphene Sheets and MoS ₂ : A Unique Filmâ€Foamâ€Film Structure for Enhanced Lithium Storage. <i>Angewandte Chemie</i> , 2016, 128, 12975-12980.	1.6	44
294	Combining Nitrogenâ€Doped Graphene Sheets and MoS ₂ : A Unique Filmâ€Foamâ€Film Structure for Enhanced Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12783-12788.	7.2	172
295	Elucidating the Electrochemical Activity of Electrolyte-Insoluble Polysulfide Species in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2109-A2116.	1.3	20
296	A trifunctional multi-walled carbon nanotubes/polyethylene glycol (MWCNT/PEG)-coated separator through a layer-by-layer coating strategy for high-energy Liâ€S batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16805-16811.	5.2	72
297	High-Performance Red P-Based Pâ€TiP ₂ â€C Nanocomposite Anode for Lithium-Ion and Sodium-Ion Storage. <i>Chemistry of Materials</i> , 2016, 28, 5935-5942.	3.2	64
298	Highâ€Performance Heterostructured Cathodes for Lithiumâ€Ion Batteries with a Niâ€Rich Layered Oxide Core and a Liâ€Rich Layered Oxide Shell. <i>Advanced Science</i> , 2016, 3, 1600184.	5.6	78
299	Performance Enhancement and Mechanistic Studies of Magnesiumâ€Sulfur Cells with an Advanced Cathode Structure. <i>ACS Energy Letters</i> , 2016, 1, 431-437.	8.8	136
300	Polysulfideâ€Shuttle Control in Lithiumâ€Sulfur Batteries with a Chemically/Electrochemically Compatible NaSICONâ€Type Solid Electrolyte. <i>Advanced Energy Materials</i> , 2016, 6, 1601392.	10.2	110
301	Core/Double-Shell Type Gradient Ni-Rich LiNi _{0.76} Co _{0.10} Mn _{0.14} O ₂ with High Capacity and Long Cycle Life for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24543-24549.	4.0	60
302	A coreâ€shell electrode for dynamically and statically stable Liâ€S battery chemistry. <i>Energy and Environmental Science</i> , 2016, 9, 3188-3200.	15.6	124
303	Electrical energy storage: Materials challenges and prospects. <i>MRS Bulletin</i> , 2016, 41, 624-631.	1.7	26
304	Nanoscale Ni/Mn Ordering in the High Voltage Spinel Cathode LiNi _{0.5} Mn _{1.5} O ₄ . <i>Chemistry of Materials</i> , 2016, 28, 6817-6821.	3.2	42
305	An Elastic, Conductive, Electroactive Nanocomposite Binder for Flexible Sulfur Cathodes in Lithiumâ€Sulfur Batteries. <i>Advanced Materials</i> , 2016, 28, 9744-9751.	11.1	107
306	A membraneless alkaline direct liquid fuel cell (DLFC) platform developed with a catalyst-selective strategy. <i>Journal of Power Sources</i> , 2016, 331, 340-347.	4.0	20

#	ARTICLE	IF	CITATIONS
307	Plating a Dendrite-Free Lithium Anode with a Polymer/Ceramic/Polymer Sandwich Electrolyte. <i>Journal of the American Chemical Society</i> , 2016, 138, 9385-9388.	6.6	844
308	Hierarchical sulfur electrodes as a testing platform for understanding the high-loading capability of Li-S batteries. <i>Journal of Power Sources</i> , 2016, 334, 179-190.	4.0	46
309	A Carbon-Cotton Cathode with Ultrahigh-Loading Capability for Statically and Dynamically Stable Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2016, 10, 10462-10470.	7.3	252
310	Durability of the $\text{Li}_{1-x}\text{Ti}_2\text{Al}_x(\text{PO}_4)_3$ Solid Electrolyte in Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2016, 1, 1080-1085.	8.8	89
311	High-capacity zinc-ion storage in an open-tunnel oxide for aqueous and nonaqueous Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18737-18741.	5.2	158
312	Edge-Oriented Tungsten Disulfide Catalyst Produced from Mesoporous WO_3 for Highly Efficient Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1501814.	10.2	45
313	Thermodynamic Stability of Transition-Metal-Substituted $\text{LiMn}_2\text{M}_x\text{O}_4$ (M=Cr, Fe, Co, and Ni) Spinel. <i>ChemPhysChem</i> , 2016, 17, 1973-1978.	1.0	12
314	A facile cathode design combining Ni-rich layered oxides with Li-rich layered oxides for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 325, 620-629.	4.0	46
315	Effective Stabilization of a High-Loading Sulfur Cathode and a Lithium-Metal Anode in Li-S Batteries Utilizing SWCNT-Modulated Separators. <i>Small</i> , 2016, 12, 174-179.	5.2	175
316	High-Performance Lithium-Sulfur Batteries with a Self-Supported, 3D Li_2S -Doped Graphene Aerogel Cathodes. <i>Advanced Energy Materials</i> , 2016, 6, 1501355.	10.2	183
317	Printed microelectrodes for scalable, high-areal-capacity lithium-sulfur batteries. <i>Chemical Communications</i> , 2016, 52, 4282-4285.	2.2	41
318	Performance Enhancement and Mechanistic Studies of Room-Temperature Sodium-Sulfur Batteries with a Carbon-Coated Functional Nafion Separator and a Na_2S /Activated Carbon Nanofiber Cathode. <i>Chemistry of Materials</i> , 2016, 28, 896-905.	3.2	166
319	TiO_2 -B nanowire arrays coated with layered MoS_2 nanosheets for lithium and sodium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 801-806.	5.2	83
320	Suppression of the polysulfide-shuttle behavior in Li-S batteries through the development of a facile functional group on the polypropylene separator. <i>Materials Horizons</i> , 2016, 3, 314-319.	6.4	68
321	Overcoming the chemical instability on exposure to air of Ni-rich layered oxide cathodes by coating with spinel $\text{LiMn}_{1.9}\text{Al}_{0.1}\text{O}_4$. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5839-5841.	5.2	119
322	High-Energy, High-Rate, Lithium-Sulfur Batteries: Synergetic Effect of Hollow TiO_2 -Webbed Carbon Nanotubes and a Dual Functional Carbon-Paper Interlayer. <i>Advanced Energy Materials</i> , 2016, 6, 1501480.	10.2	308
323	Formation and effect of orientation domains in layered oxide cathodes of lithium-ion batteries. <i>Acta Materialia</i> , 2016, 108, 264-270.	3.8	17
324	The facile synthesis and enhanced sodium-storage performance of a chemically bonded CuP_2/C hybrid anode. <i>Chemical Communications</i> , 2016, 52, 4337-4340.	2.2	122

#	ARTICLE	IF	CITATIONS
325	Unravelling the low thermal expansion coefficient of cation-substituted YBaCo ₄ O _{7+δ} . Journal of Power Sources, 2016, 307, 454-461.	4.0	16
326	δ -NaVOPO ₄ Obtained by a Low-Temperature Synthesis Process: A New 3.3 V Cathode for Sodium-Ion Batteries. Chemistry of Materials, 2016, 28, 1503-1512.	3.2	60
327	A Polysulfide-Trapping Interface for Electrochemically Stable Sulfur Cathode Development. ACS Applied Materials & Interfaces, 2016, 8, 4709-4717.	4.0	64
328	Cobalt oxide-coated N- and B-doped graphene hollow spheres as bifunctional electrocatalysts for oxygen reduction and oxygen evolution reactions. Journal of Materials Chemistry A, 2016, 4, 5877-5889.	5.2	155
329	Exploration of a Metastable Normal Spinel Phase Diagram for the Quaternary Li ⁺ -Ni ²⁺ -Mn ²⁺ -Co ²⁺ -O System. Chemistry of Materials, 2016, 28, 1832-1837.	3.2	42
330	A 3.4 V Layered VOPO ₄ Cathode for Na-Ion Batteries. Chemistry of Materials, 2016, 28, 682-688.	3.2	100
331	High-Performance Lithium ⁺ -Sulfur Batteries with a Self-Assembled Multiwall Carbon Nanotube Interlayer and a Robust Electrode ⁺ -Electrolyte Interface. ACS Applied Materials & Interfaces, 2016, 8, 983-987.	4.0	104
332	Lithium Polyacrylate (LiPAA) as an Advanced Binder and a Passivating Agent for High ⁺ -Voltage Li ⁺ -ion Batteries. Advanced Energy Materials, 2015, 5, 1501008.	10.2	190
333	Electrochemically Stable Rechargeable Lithium ⁺ -Sulfur Batteries with a Microporous Carbon Nanofiber Filter for Polysulfide. Advanced Energy Materials, 2015, 5, 1500738.	10.2	255
334	Enhanced Cycling Stability of Hybrid Li ⁺ -Air Batteries Enabled by Ordered Pd ₃ Fe Intermetallic Electrocatalyst. Journal of the American Chemical Society, 2015, 137, 7278-7281.	6.6	149
335	Porous Carbon Mat as an Electrochemical Testing Platform for Investigating the Polysulfide Retention of Various Cathode Configurations in Li ⁺ -S Cells. Journal of Physical Chemistry Letters, 2015, 6, 2163-2169.	2.1	61
336	Lithium-Sulfur Batteries: Electrochemically Stable Rechargeable Lithium-Sulfur Batteries with a Microporous Carbon Nanofiber Filter for Polysulfide (Adv. Energy Mater. 18/2015). Advanced Energy Materials, 2015, 5, n/a-n/a.	10.2	1
337	Lithium diffusivity in antimony-based intermetallic and FeSb ⁺ -TiC composite anodes as measured by GITT. Physical Chemistry Chemical Physics, 2015, 17, 28837-28843.	1.3	27
338	Ambient Temperature Sodium ⁺ -Sulfur Batteries. Small, 2015, 11, 2108-2114.	5.2	288
339	A free-standing carbon nanofiber interlayer for high-performance lithium ⁺ -sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 4530-4538.	5.2	317
340	Na ₂ S ⁺ -Carbon Nanotube Fabric Electrodes for Room ⁺ -Temperature Sodium ⁺ -Sulfur Batteries. Chemistry - A European Journal, 2015, 21, 4233-4237.	1.7	109
341	Dual ⁺ -Confined Flexible Sulfur Cathodes Encapsulated in Nitrogen ⁺ -Doped Double ⁺ -Shelled Hollow Carbon Spheres and Wrapped with Graphene for Li ⁺ -S Batteries. Advanced Energy Materials, 2015, 5, 1402263.	10.2	459
342	Surface-modified concentration-gradient Ni-rich layered oxide cathodes for high-energy lithium-ion batteries. Journal of Power Sources, 2015, 282, 429-436.	4.0	125

#	ARTICLE	IF	CITATIONS
343	Lithium–Sulfur Batteries: Progress and Prospects. <i>Advanced Materials</i> , 2015, 27, 1980-2006.	11.1	1,288
344	A Facile Layer-by-Layer Approach for High-Areal-Capacity Sulfur Cathodes. <i>Advanced Materials</i> , 2015, 27, 1694-1700.	11.1	270
345	Free-standing TiO ₂ nanowire-embedded graphene hybrid membrane for advanced Li/dissolved polysulfide batteries. <i>Nano Energy</i> , 2015, 12, 240-249.	8.2	252
346	MnNiCoO ₄ /N-MWCNT nanocomposite catalyst with high selectivity in membraneless direct formate fuel cells and bifunctional activity for oxygen electrochemistry. <i>Catalysis Science and Technology</i> , 2015, 5, 2072-2075.	2.1	33
347	Sensitivity and Intricacy of Cationic Substitutions on the First Charge/Discharge Cycle of Lithium-Rich Layered Oxide Cathodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1662-A1666.	1.3	10
348	High-rate, high-density FeSb–TiC nanocomposite anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3891-3900.	5.2	28
349	Hybrid Lithium–Sulfur Batteries with a Solid Electrolyte Membrane and Lithium Polysulfide Catholyte. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16625-16631.	4.0	107
350	Long-life Li/polysulphide batteries with high sulphur loading enabled by lightweight three-dimensional nitrogen/sulphur-codoped graphene sponge. <i>Nature Communications</i> , 2015, 6, 7760.	5.8	923
351	Nickel-rich layered LiNi _{1-x} M _x O ₂ (M = Mn, Fe, and Co) electrocatalysts with high oxygen evolution reaction activity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16604-16612.	5.2	44
352	VO ₂ /rGO nanorods as a potential anode for sodium- and lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14750-14758.	5.2	99
353	Insight into lithium–metal anodes in lithium–sulfur batteries with a fluorinated ether electrolyte. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14864-14870.	5.2	133
354	Polymer lithium–sulfur batteries with a Nafion membrane and an advanced sulfur electrode. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15683-15691.	5.2	114
355	Ambient-Temperature Sodium–Sulfur Batteries with a Sodiated Nafion Membrane and a Carbon Nanofiber-Activated Carbon Composite Electrode. <i>Advanced Energy Materials</i> , 2015, 5, 1500350.	10.2	147
356	Delineating the roles of Co ₃ O ₄ and N-doped carbon nanoweb (CNW) in bifunctional Co ₃ O ₄ /CNW catalysts for oxygen reduction and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11615-11623.	5.2	91
357	Role of Mn Content on the Electrochemical Properties of Nickel-Rich Layered LiNi _{0.8-x} Co _{0.1} Mn _{0.1+x} O ₂ (0.0 ≤ x ≤ 0.1). <i>Journal of Materials Chemistry A</i> , 2015, 3, 11615-11623.	5.2	91
358	Rapid Microwave-Assisted Solvothermal Synthesis of Non-Olivine Cmcm Polymorphs of LiMPO ₄ (M = Mn, Fe, Co, and Ni) at Low Temperature and Pressure. <i>Inorganic Chemistry</i> , 2015, 54, 10015-10022.	1.9	18
359	Effect of nickel oxidation state on the structural and electrochemical characteristics of lithium-rich layered oxide cathodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22199-22207.	5.2	48
360	On the Utility of Spinel Oxide Hosts for Magnesium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22953-22961.	4.0	53

#	ARTICLE	IF	CITATIONS
361	Ni ²⁺ /M (M = Sn and Sb) intermetallic-based catalytic functional layer as a built-in safeguard for hydrocarbon-fueled solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21824-21831.	5.2	11
362	Low-Temperature Synthesis, Structural Characterization, and Electrochemistry of Ni-Rich Spinel-like LiNi ₂ Y ₂ Mn ₂ O ₄ (0.4 at% Y). <i>Chemistry of Materials</i> , 2015, 27, 7729-7733.	3.2	15
363	Layered LnBaCo ₂ O _{5+δ} perovskite cathodes for solid oxide fuel cells: an overview and perspective. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24195-24210.	5.2	201
364	Ultra-lightweight PANiNF/MWCNT-functionalized separators with synergistic suppression of polysulfide migration for Li ⁺ S batteries with pure sulfur cathodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18829-18834.	5.2	147
365	Electronic and Electrochemical Properties of Li _{1-x} Mn _{1.5} Ni _{0.5} O ₄ Spinel Cathodes As a Function of Lithium Content and Cation Ordering. <i>Chemistry of Materials</i> , 2015, 27, 6934-6945.	3.2	57
366	High-Performance Zn ²⁺ /TiC ⁺ C Nanocomposite Alloy Anode with Exceptional Cycle Life for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14801-14807.	4.0	33
367	Bi _{0.94} Sb _{1.06} S ₃ Nanorod Cluster Anodes for Sodium-Ion Batteries: Enhanced Reversibility by the Synergistic Effect of the Bi ₂ S ₃ -Sb ₂ S ₃ Solid Solution. <i>Chemistry of Materials</i> , 2015, 27, 6139-6145.	3.2	88
368	Crystal Chemistry of Electrochemically and Chemically Lithiated Layered Li _{1-x} LiVOPO ₄ . <i>Chemistry of Materials</i> , 2015, 27, 6699-6707.	3.2	45
369	Hierarchical pore-in-pore and wire-in-wire catalysts for rechargeable Zn ²⁺ and Li ⁺ air batteries with ultra-long cycle life and high cell efficiency. <i>Energy and Environmental Science</i> , 2015, 8, 3274-3282.	15.6	107
370	Effects of Chemical versus Electrochemical Delithiation on the Oxygen Evolution Reaction Activity of Nickel-Rich Layered Li _{1-x} M _x O ₂ . <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3787-3791.	2.1	23
371	Chemical extraction of Zn from ZnMn ₂ O ₄ -based spinels. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21077-21082.	5.2	100
372	Catalyst-selective, scalable membraneless alkaline direct formate fuel cells. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 63-67.	10.8	73
373	A facile, low-cost synthesis of high-performance silicon-based composite anodes with high tap density for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2399-2406.	5.2	99
374	A class of polysulfide catholytes for lithium ⁺ sulfur batteries: energy density, cyclability, and voltage enhancement. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2127-2136.	1.3	82
375	High-performance Y _{0.9} In _{0.1} BaCo ₃ (Zn,Fe)O _{7+δ} swedenborgite-type oxide cathodes for reduced temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 1186-1194.	3.8	5
376	Effect of Ru substitution on the first charge ⁺ discharge cycle of lithium-rich layered oxides. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2006-2011.	5.2	60
377	Carbonized Eggshell Membranes as a Natural and Abundant Counter Electrode for Efficient Dye ⁺ Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401524.	10.2	43
378	Characterization of Layered LiMO ₂ Oxides for the Oxygen Evolution Reaction of Metal ⁺ Air Batteries (M=Mn, Co, Ni). <i>ChemPlusChem</i> , 2015, 80, 422-427.	1.3	13

#	ARTICLE	IF	CITATIONS
379	Co ₃ O ₄ nanocrystals coupled with O- and N-doped carbon nanoweb as a synergistic catalyst for hybrid Li-air batteries. Nano Energy, 2015, 12, 852-860.	8.2	92
380	Hybrid and Aqueous Lithium-Air Batteries. Advanced Energy Materials, 2015, 5, 1401302.	10.2	131
381	A perspective on electrical energy storage. MRS Communications, 2014, 4, 135-142.	0.8	92
382	Carbonized Eggshell Membrane as a Natural Polysulfide Reservoir for Highly Reversible Li-S Batteries. Advanced Materials, 2014, 26, 1360-1365.	11.1	351
383	Capacity Enhancement and Discharge Mechanisms of Room-Temperature Sodium-Sulfur Batteries. ChemElectroChem, 2014, 1, 1275-1280.	1.7	151
384	Synthesis and Characterization of Lithium Bis(fluoromalonato)borate for Lithium-Ion Battery Applications. Advanced Energy Materials, 2014, 4, 1301368.	10.2	43
385	Li ₂ S-Carbon Sandwiched Electrodes with Superior Performance for Lithium-Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1300655.	10.2	141
386	A Natural Carbonized Leaf as Polysulfide Diffusion Inhibitor for High-Performance Lithium-Sulfur Battery Cells. ChemSusChem, 2014, 7, 1655-1661.	3.6	129
387	Low-cost, porous carbon current collector with high sulfur loading for lithium-sulfur batteries. Electrochemistry Communications, 2014, 38, 91-95.	2.3	73
388	O- and N-Doped Carbon Nanoweb as Metal-Free Catalysts for Hybrid Li-Air Batteries. Advanced Energy Materials, 2014, 4, 1301795.	10.2	89
389	Room-temperature synthesis of Pd/C cathode catalysts with superior performance for direct methanol fuel cells. Journal of Materials Chemistry A, 2014, 2, 3468.	5.2	37
390	Mesoporous TiO ₂ -Sn/C Core-Shell Nanowire Arrays as High-Performance 3D Anodes for Li-Ion Batteries. Advanced Energy Materials, 2014, 4, 1400403.	10.2	60
391	Spinel-type lithium cobalt oxide as a bifunctional electrocatalyst for the oxygen evolution and oxygen reduction reactions. Nature Communications, 2014, 5, 3949.	5.8	572
392	NiSb-Al ₂ O ₃ -C Nanocomposite Anodes with Long Cycle Life for Li-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 811-822.	1.5	49
393	The role of composition in the atomic structure, oxygen loss, and capacity of layered Li-Mn-Ni oxide cathodes. Journal of Materials Chemistry A, 2014, 2, 1353-1362.	5.2	63
394	Activated Li ₂ S as a High-Performance Cathode for Rechargeable Lithium-Sulfur Batteries. Journal of Physical Chemistry Letters, 2014, 5, 3986-3991.	2.1	96
395	A Polyethylene Glycol-Supported Microporous Carbon Coating as a Polysulfide Trap for Utilizing Pure Sulfur Cathodes in Lithium-Sulfur Batteries. Advanced Materials, 2014, 26, 7352-7357.	11.1	325
396	Hydrogen tungsten bronze as a decoking agent for long-life, natural gas-fueled solid oxide fuel cells. Energy and Environmental Science, 2014, 7, 3069.	15.6	37

#	ARTICLE	IF	CITATIONS
397	Improved phase stability and electrochemical performance of (Y,In,Ca)BaCo ₃ ZnO _{7+δ} cathodes for intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19722-19730.	3.8	8
398	Hydrocarbon-fueled solid oxide fuel cells with surface-modified, hydroxylated Sn/Ni _{0.8} Gd _{0.2} O _{1.9} heterogeneous catalyst anode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17041-17046.	5.2	31
399	Room-Temperature Sodium-Sulfur Batteries with Liquid-Phase Sodium Polysulfide Catholytes and Binder-Free Multiwall Carbon Nanotube Fabric Electrodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22952-22959.	1.5	127
400	Advanced hybrid air batteries with high-performance mesoporous nanocatalysts. <i>Energy and Environmental Science</i> , 2014, 7, 2630.	15.6	129
401	Smart design of lithium-rich layered oxide cathode compositions with suppressed voltage decay. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3932.	5.2	104
402	Enhanced electrochemical performances of Li-rich layered oxides by surface modification with reduced graphene oxide/AlPO ₄ hybrid coating. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8696.	5.2	95
403	Highly active Pd and Pd-Au nanoparticles supported on functionalized graphene nanoplatelets for enhanced formic acid oxidation. <i>RSC Advances</i> , 2014, 4, 4028-4033.	1.7	57
404	A hierarchical carbonized paper with controllable thickness as a modulable interlayer system for high performance Li-S batteries. <i>Chemical Communications</i> , 2014, 50, 4184.	2.2	169
405	Stabilized Lithium-Metal Surface in a Polysulfide-Rich Environment of Lithium-Sulfur Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2522-2527.	2.1	145
406	Understanding the Effect of Co ³⁺ Substitution on the Electrochemical Properties of Lithium-Rich Layered Oxide Cathodes for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21826-21833.	1.5	91
407	Highly Reversible Room-Temperature Sulfur/Long-Chain Sodium Polysulfide Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1943-1947.	2.1	126
408	In Situ Mitigation of First-Cycle Anode Irreversibility in a New Spinel/FeSb Lithium-Ion Cell Enabled via a Microwave-Assisted Chemical Lithiation Process. <i>Chemistry of Materials</i> , 2014, 26, 5905-5913.	3.2	46
409	High-Performance Li-S Batteries with an Ultra-lightweight MWCNT-Coated Separator. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1978-1983.	2.1	340
410	Bifunctional Separator with a Lightweight Carbon-Coating for Dynamically and Statically Stable Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 5299-5306.	7.8	457
411	Decoupled bifunctional air electrodes for high-performance hybrid lithium-air batteries. <i>Nano Energy</i> , 2014, 9, 94-100.	8.2	60
412	A perspective on the high-voltage LiMn _{1.5} Ni _{0.5} O ₄ spinel cathode for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2014, 7, 1339.	15.6	546
413	Effect of TiC addition on SnSb-C composite anodes for sodium-ion batteries. <i>Journal of Power Sources</i> , 2014, 269, 848-854.	4.0	59
414	Sulfur/lithium-insertion compound composite cathodes for Li-S batteries. <i>Journal of Power Sources</i> , 2014, 270, 101-105.	4.0	57

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415	Understanding the Influence of Composition and Synthesis Temperature on Oxygen Loss, Reversible Capacity, and Electrochemical Behavior of $\text{Li}_{2-x}\text{MnO}_3$ ($0 \leq x < 1$) Cathodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23553-23558.	1.5	21
416	High-Capacity, Aliovalently Doped Olivine $\text{LiMn}_{1-x}\text{V}_x\text{PO}_4$ Cathodes without Carbon Coating. <i>Chemistry of Materials</i> , 2014, 26, 3018-3026.	3.2	37
417	Effects of In substitution in $\text{Y}_{1-x}\text{In}_x\text{BaCo}_3\text{ZnO}_{7+0.5}$ cathodes for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014, 271, 252-261.	4.0	10
418	High-Performance Li/Dissolved Polysulfide Batteries with an Advanced Cathode Structure and High Sulfur Content. <i>Advanced Energy Materials</i> , 2014, 4, 1400897.	10.2	55
419	Eggshell Membrane-Derived Polysulfide Absorbents for Highly Stable and Reversible Lithium-Sulfur Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2248-2252.	3.2	49
420	Integrated Nano-Domains of Disordered and Ordered Spinel Phases in $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 4377-4386.	3.2	132
421	Rechargeable Lithium-Sulfur Batteries. <i>Chemical Reviews</i> , 2014, 114, 11751-11787.	23.0	3,842
422	Chemical and Electrochemical Lithiation of LiVOPO_4 Cathodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 3849-3861.	3.2	63
423	Nanostructured $\text{Li}_2\text{MnSiO}_4/\text{C}$ Cathodes with Hierarchical Macro/Mesoporosity for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 5277-5283.	7.8	51
424	Effect of Synthesis Conditions on the First Charge and Reversible Capacities of Lithium-Rich Layered Oxide Cathodes. <i>Chemistry of Materials</i> , 2013, 25, 3267-3275.	3.2	98
425	Mo_3Sb_7 as a very fast anode material for lithium-ion and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11163.	5.2	121
426	Magnetic measurements as a viable tool to assess the relative degrees of cation ordering and Mn^{3+} content in doped $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ spinel cathodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10745.	5.2	24
427	Low-cost, $\text{Mo}(\text{S},\text{Se})_2$ -free superstrate-type solar cells fabricated with tunable band gap $\text{Cu}_2\text{ZnSn}(\text{S}_{1-x}\text{Se}_x)_4$ nanocrystal-based inks and the effect of sulfurization. <i>RSC Advances</i> , 2013, 3, 19946.	1.7	9
428	Crystal-Chemical Guide for Understanding Redox Energy Variations of $\text{M}^{2+/3+}$ Couples in Polyanion Cathodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2013, 25, 4010-4016.	3.2	104
429	Impact of Lithium Bis(oxalate)borate Electrolyte Additive on the Performance of High-Voltage Spinel/Graphite Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22603-22612.	1.5	159
430	Superior power density solid oxide fuel cells by enlarging the three-phase boundary region of a $\text{NiO}-\text{CeO}_2-\text{Gd}_2\text{O}_3$ composite anode through optimized surface structure. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14966.	1.3	16
431	A Rapid Microwave-Assisted Solvothermal Approach to Lower-Valent Transition Metal Oxides. <i>Inorganic Chemistry</i> , 2013, 52, 13087-13093.	1.9	19
432	In Situ-Formed Li_2S in Lithiated Graphite Electrodes for Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2013, 135, 18044-18047.	6.6	140

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433	Lithium-sulfur batteries with superior cycle stability by employing porous current collectors. <i>Electrochimica Acta</i> , 2013, 107, 569-576.	2.6	134
434	Effect of interfacial dipoles on charge traps in organic-inorganic hybrid solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3258.	5.2	9
435	Temperature Dependence of Aliovalent-Vanadium Doping in LiFePO_4 Cathodes. <i>Chemistry of Materials</i> , 2013, 25, 768-781.	3.2	83
436	N-heterocycles tethered graphene as efficient metal-free catalysts for an oxygen reduction reaction in fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10166.	5.2	13
437	Influence of doping on the cation ordering and charge-discharge behavior of $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{M}_x\text{O}_4$ (M) Tj ETQq _{1,1} 0.784314 rgBT (0	5.2	70
438	Octahedral and truncated high-voltage spinel cathodes: the role of morphology and surface planes in electrochemical properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3347.	5.2	110
439	Highly reversible Li/dissolved polysulfide batteries with binder-free carbon nanofiber electrodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10362.	5.2	135
440	Influence of cationic substitutions on the first charge and reversible capacities of lithium-rich layered oxide cathodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10209.	5.2	91
441	High-voltage spinel cathodes for lithium-ion batteries: controlling the growth of preferred crystallographic planes through cation doping. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15334.	5.2	38
442	Nano-cellular carbon current collectors with stable cyclability for Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9590.	5.2	73
443	Effects of Pt Coverage in Pt@PdCu ₅ /C Core-Shell Electrocatalysts on the Oxygen Reduction Reaction and Methanol Tolerance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3865-3873.	1.5	43
444	Overcoming phase instability of $\text{RBaCo}_2\text{O}_5+\hat{\Gamma}$ (R=Y and Ho) by Sr substitution for application as cathodes in solid oxide fuel cells. <i>Solid State Ionics</i> , 2013, 253, 81-87.	1.3	24
445	Dual-electrolyte lithium-air batteries: influence of catalyst, temperature, and solid-electrolyte conductivity on the efficiency and power density. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5121.	5.2	52
446	Effects of bifunctional metal sulfide interlayers on photovoltaic properties of organic-inorganic hybrid solar cells. <i>RSC Advances</i> , 2013, 3, 5412.	1.7	26
447	Hydroxylated Graphene-Sulfur Nanocomposites for High-Rate Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 1008-1012.	10.2	395
448	Microwave-Assisted Solvothermal Synthesis and Characterization of Various Polymorphs of LiVOPO_4 . <i>Chemistry of Materials</i> , 2013, 25, 1751-1760.	3.2	67
449	High-performance blend membranes composed of an amphoteric copolymer containing supramolecular nanosieves for direct methanol fuel cells. <i>RSC Advances</i> , 2013, 3, 6759.	1.7	6
450	Highly Reversible Lithium/Dissolved Polysulfide Batteries with Carbon Nanotube Electrodes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6930-6935.	7.2	291

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451	Challenges and Prospects of Lithium-Sulfur Batteries. <i>Accounts of Chemical Research</i> , 2013, 46, 1125-1134.	7.6	1,962
452	Randomly stacked holey graphene anodes for lithium ion batteries with enhanced electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7775.	5.2	104
453	Origin of Site Disorder and Oxygen Nonstoichiometry in $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{M}_{4}\text{O}_{4}$ (M = Cu and Zn) Cathodes with Divalent Dopant Ions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12465-12471.	1.5	61
454	Factors Influencing the Electrochemical Properties of High-Voltage Spinel Cathodes: Relative Impact of Morphology and Cation Ordering. <i>Chemistry of Materials</i> , 2013, 25, 2890-2897.	3.2	147
455	A strategic approach to recharging lithium-sulphur batteries for long cycle life. <i>Nature Communications</i> , 2013, 4, 2985.	5.8	376
456	Structural and Electrochemical Characterization of $(\text{NH}_{4})_{2}\text{HPO}_{4}$ -Treated Lithium-Rich Layered $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_{2}$ Cathodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1661-A1667.	1.3	29
457	High-Performance $\text{M}_{2}\text{SbAl}_{2}\text{O}_{3}$ (M=Fe, Ni, and Cu) Nanocomposite Alloy Anodes for Sodium-Ion Batteries. <i>Energy Technology</i> , 2013, 1, 319-326.	1.8	21
458	Pyridine- and pyrimidine-functionalized poly(sulfone)s: performance-enhancing crosslinkers for acid/base blend proton exchange membranes used in direct methanol fuel cells. <i>RSC Advances</i> , 2013, 4, 2167-2176.	1.7	9
459	Quantitative determination of Mn^{3+} content in $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_{4}$ spinel cathodes by magnetic measurements. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	30
460	Understanding structural defects in lithium-rich layered oxide cathodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 11550.	6.7	68
461	Orthorhombic Bipyramidal Sulfur Coated with Polypyrrole Nanolayers As a Cathode Material for Lithium-Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8910-8915.	1.5	259
462	Sulfur-Carbon Nanocomposite Cathodes Improved by an Amphiphilic Block Copolymer for High-Rate Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6046-6052.	4.0	98
463	Composite membranes based on sulfonated poly(ether ether ketone) and SDBS-adsorbed graphene oxide for direct methanol fuel cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 24862.	6.7	192
464	Shape-controlled synthesis of high tap density cathode oxides for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6724.	1.3	44
465	$\text{Cu}_{6}\text{Sn}_{5}\text{TiC}$ nanocomposite alloy anodes with high volumetric capacity for lithium ion batteries. <i>RSC Advances</i> , 2012, 2, 5411.	1.7	35
466	Hydrocarbon blend membranes with suppressed chemical crossover for redox flow batteries. <i>RSC Advances</i> , 2012, 2, 5554.	1.7	29
467	$\text{Cu}_{2}\text{SbAl}_{2}\text{O}_{3}\text{C}$ nanocomposite alloy anodes with exceptional cycle life for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 3242.	6.7	38
468	A new approach to improve cycle performance of rechargeable lithium-sulfur batteries by inserting a free-standing MWCNT interlayer. <i>Chemical Communications</i> , 2012, 48, 8817.	2.2	689

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469	Nitrogen-Doped Carbon Nanotube/Graphite Felts as Advanced Electrode Materials for Vanadium Redox Flow Batteries. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2164-2167.	2.1	230
470	Calculations of Oxygen Stability in Lithium-Rich Layered Cathodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23201-23204.	1.5	104
471	Role of Cation Ordering and Surface Segregation in High-Voltage Spinel $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{M}_{4}\text{O}_{4}$ (M = Cr, Fe, and Ga) Cathodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2012, 24, 3720-3731.	3.2	202
472	Influence of Cation Ordering and Lattice Distortion on the Charge/Discharge Behavior of $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_{4}$ Spinel between 5.0 and 2.0 V. <i>Chemistry of Materials</i> , 2012, 24, 3610-3620.	3.2	180
473	Core-shell structured sulfur-polypyrrole composite cathodes for lithium-sulfur batteries. <i>RSC Advances</i> , 2012, 2, 5927.	1.7	211
474	Lithium-sulphur batteries with a microporous carbon paper as a bifunctional interlayer. <i>Nature Communications</i> , 2012, 3, 1166.	5.8	1,298
475	Sulfur-Polypyrrole Composite Cathodes for Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1420-A1424.	1.3	141
476	Role of Oxygen Vacancies on the Performance of $\text{Li}[\text{Ni}_{0.5}\text{Mn}_{1.5}\text{O}_{4}]$ ($x = 0, 0.05, \text{ and } 0.08$) Spinel Cathodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2012, 24, 3101-3109.	3.2	283
477	Application of Derivative Voltammetry in the Analysis of Methanol Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3827-3832.	1.5	55
478	Precursor-directed formation of hollow Co_3O_4 nanospheres exhibiting superior lithium storage properties. <i>RSC Advances</i> , 2012, 2, 3187.	1.7	67
479	A dual-electrolyte rechargeable Li-air battery with phosphate buffer catholyte. <i>Electrochemistry Communications</i> , 2012, 14, 78-81.	2.3	95
480	$\text{La}_{1.85}\text{Sr}_{1.15}\text{Cu}_{2-x}\text{Co}_x\text{O}_{6+\delta}$ intergrowth oxides as cathodes for intermediate temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , 2012, 70, 375-381.	2.6	7
481	$(\text{Y}_{0.5}\text{In}_{0.5})\text{Ba}(\text{Co},\text{Zn})_4\text{O}_7$ cathodes with superior high-temperature phase stability for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012, 214, 7-14.	4.0	21
482	Microwave-hydrothermal synthesis of $\text{W}_{0.4}\text{Mo}_{0.6}\text{O}_3$ and carbon-decorated $\text{WO}_x\text{-MoO}_2$ nanorod anodes for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 4082.	6.7	40
483	Crystal chemistry and electrochemical properties of $\text{Ln}(\text{Sr},\text{Ca})_3(\text{Fe},\text{Co})_3\text{O}_{10}$ intergrowth oxide cathodes for solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 2482-2488.	6.7	25
484	Atomic Structure of a Lithium-Rich Layered Oxide Material for Lithium-Ion Batteries: Evidence of a Solid Solution. <i>Chemistry of Materials</i> , 2011, 23, 3614-3621.	3.2	441
485	Influence of Cationic Substitutions on the Oxygen Loss and Reversible Capacity of Lithium-Rich Layered Oxide Cathodes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7097-7103.	1.5	207
486	$\text{Ln}(\text{Sr},\text{Ca})_3(\text{Fe},\text{Co})_3\text{O}_{10}$ Intergrowth Oxide Cathodes for Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2011, 35, 2137-2145.	0.3	8

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487	Thermal stability of spinel $\text{Li}_{1.1}\text{Mn}_{1.9}\text{M}_y\text{O}_4\text{F}_z$ (M = Ni, Al, and Li, 0 ≤ y ≤ 0.3, and 0 ≤ z ≤ 0.2) cathodes for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 10165.	6.7	26
488	Materials Challenges and Opportunities of Lithium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 176-184.	2.1	928
489	Surface-segregated, high-voltage spinel $\text{LiMn}_{1.5}\text{Ni}_{0.42}\text{Ga}_{0.08}\text{O}_4$ cathodes with superior high-temperature cyclability for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2011, 13, 1213-1216.	2.3	77
490	Characterization of $(\text{Y}_{1-x}\text{Ca}_x)\text{BaCo}_{4-y}\text{Zn}_y\text{O}_7$ as cathodes for intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15295-15303.	3.8	24
491	Crystal chemistry and properties of mixed ionic-electronic conductors. <i>Journal of Electroceramics</i> , 2011, 27, 93-107.	0.8	65
492	High temperature phase stabilities and electrochemical properties of $\text{InBaCo}_4\text{Zn}_x\text{O}_7$ cathodes for intermediate temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , 2011, 56, 5740-5745.	2.6	13
493	Effects of Ga substitution on the high temperature properties of the n=3 Ruddlesden Popper system $\text{LaSr}_3\text{Fe}_{1.5-x/2}\text{Co}_{1.5-x/2}\text{Ga}_x\text{O}_{10}$ (0 ≤ x ≤ 0.8). <i>Solid State Ionics</i> , 2011, 192, 241-244.	1.3	13
494	Electrochemical Properties of $\text{Ln}(\text{Sr,Ca})_3(\text{Fe,Co})_3\text{O}_{10}\text{Gd}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$ Composite Cathodes for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2011, 158, B1206.	1.3	11
495	Rapid Microwave-Assisted Solvothermal Synthesis of Methanol Tolerant Pt-Pd-Co Nanoalloy Electrocatalysts. <i>Fuel Cells</i> , 2010, 10, 375-383.	1.5	26
496	Effect of Fe substitution on the structure and properties of $\text{LnBaCo}_2\text{Fe}_x\text{O}_5$ (Ln = Nd and Gd) cathodes. <i>Journal of Power Sources</i> , 2010, 195, 6411-6419.	4.0	127
497	Carbon-coated high capacity layered $\text{Li}[\text{Li}_{0.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}]\text{O}_2$ cathodes. <i>Electrochemistry Communications</i> , 2010, 12, 750-753.	2.3	201
498	Low Thermal Expansion $\text{RBa}(\text{Co,M})_4\text{O}_7$ Cathode Materials Based on Tetrahedral-Site Cobalt Ions for Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2010, 22, 822-831.	3.2	66
499	Conductive Surface Modification with Aluminum of High Capacity Layered $\text{Li}[\text{Li}_{0.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}]\text{O}_2$ Cathodes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9528-9533.	1.5	152
500	Functional surface modifications of a high capacity layered $\text{Li}[\text{Li}_{0.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}]\text{O}_2$ cathode. <i>Journal of Materials Chemistry</i> , 2010, 20, 3961.	6.7	252
501	Nanoengineered SnTiC composite anode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 236-239.	6.7	38
502	Understanding the Shifts in the Redox Potentials of Olivine LiM_2PO_4 (M = Fe, Mn, Co, and Mg) Solid Solution Cathodes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15530-15540.	1.5	167
503	Improved Electrochemical Performance of the 5V Spinel Cathode $\text{LiMn}_{1.5}\text{Ni}_{0.42}\text{Zn}_{0.08}\text{O}_4$ by Surface Modification. <i>Journal of the Electrochemical Society</i> , 2009, 156, A66.	1.3	135
504	Characterization of $\text{Sr}_{2.7}\text{Ln}_{0.3}\text{Fe}_{1.4}\text{Co}_{0.6}\text{O}_7$ (Ln=La, Nd, Sm, Gd) intergrowth oxides as cathodes for solid oxide fuel cells. <i>Solid State Ionics</i> , 2009, 180, 1478-1483.	1.3	30

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505	Sb-MO _x -C (M = Al, Ti, or Mo) Nanocomposite Anodes for Lithium-Ion Batteries. Chemistry of Materials, 2009, 21, 3898-3904.	3.2	76
506	Dimensionally Modulated, Single-Crystalline LiMPO ₄ (M= Mn, Fe, Co, and Ni) with Nano-Thumblike Shapes for High-Power Energy Storage. Inorganic Chemistry, 2009, 48, 946-952.	1.9	167
507	Nanoscale design to enable the revolution in renewable energy. Energy and Environmental Science, 2009, 2, 559.	15.6	348
508	Understanding the Improved Electrochemical Performances of Fe-Substituted 5 V Spinel Cathode LiMn _{1.5} Ni _{0.5} O ₄ . Journal of Physical Chemistry C, 2009, 113, 15073-15079.	1.5	280
509	Controlled synthesis and characterization of carbon-supported Pd ₄ Co nanoalloy electrocatalysts for oxygen reduction reaction in fuel cells. Energy and Environmental Science, 2009, 2, 124-132.	15.6	46
510	Low cost Pd-W nanoalloy electrocatalysts for oxygen reduction reaction in fuel cells. Journal of Materials Chemistry, 2009, 19, 159-165.	6.7	76
511	High capacity double-layer surface modified Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ cathode with improved rate capability. Journal of Materials Chemistry, 2009, 19, 4965.	6.7	302
512	Understanding the Improvement in the Electrochemical Properties of Surface Modified 5 V LiMn _{1.42} Ni _{0.42} Co _{0.16} O ₄ Spinel Cathodes in Lithium-ion Cells. Chemistry of Materials, 2009, 21, 1695-1707.	3.2	345
513	LnBaCo ₂ O _{5+δ} Oxides as Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B385.	1.3	365
514	Nanoscale networking of LiFePO ₄ nanorods synthesized by a microwave-solvothermal route with carbon nanotubes for lithium ion batteries. Journal of Materials Chemistry, 2008, 18, 5661.	6.7	140
515	Nanostructured electrode materials for electrochemical energy storage and conversion. Energy and Environmental Science, 2008, 1, 621.	15.6	548
516	Comparison of Microwave Assisted Solvothermal and Hydrothermal Syntheses of LiFePO ₄ /C Nanocomposite Cathodes for Lithium Ion Batteries. Journal of Physical Chemistry C, 2008, 112, 14665-14671.	1.5	210
517	Chemical and structural instability of the chemically delithiated (1-x) Li _{1-x} Mn _{2/3} O ₂ ·z Li[Co _{1-y} Ni _y]O ₂ (0 ≤ y ≤ 1 and 0 ≤ z ≤ 1) solid solution cathodes. Journal of Materials Chemistry, 2008, 18, 190-198.	6.7	30
518	Synthesis and Characterization of Nanostructured Pd-Mo Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells. Journal of Physical Chemistry C, 2008, 112, 12037-12043.	1.5	85
519	Factors Influencing the Irreversible Oxygen Loss and Reversible Capacity in Layered Li[Li _{1/3} Mn _{2/3}]O ₂ ·Li[M]O ₂ (M = Mn _{0.5} -yNi _{0.5-y} Co _{2y} and Ni _{1-y} Co _y) Solid Solutions. Chemistry of Materials, 2007, 19, 3067-3073.	3.2	218
520	Comparison of Metal Ion Dissolutions from Lithium Ion Battery Cathodes. Journal of the Electrochemical Society, 2006, 153, A1760.	1.3	240
521	Factors influencing the crystal chemistry of chemically delithiated layered H _x Ni _{1-y} zMnyCo _z O ₂ . Journal of Materials Chemistry, 2006, 16, 1726-1733.	6.7	17
522	Comparison of Ln _{0.6} Sr _{0.4} CoO _{3+δ} (Ln=La, Pr, Nd, Sm, and Gd) as Cathode Materials for Intermediate Temperature Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2006, 153, A794.	1.3	136

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523	Sr _{3-3x} La _x Fe _{2-y} Co _y O ₇₋₁ (0.3 ≤ x ≤ 0.6 and 0 ≤ y ≤ 0.6) Intergrowth Oxide Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2006, 153, A1255.	1.3	24
524	LaSr ₃ Fe _{3-y} Co _y O ₁₀₋₁ (0 ≤ y ≤ 1.5) Intergrowth Oxide Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. Chemistry of Materials, 2006, 18, 1621-1626.	3.2	94
525	Synthesis and characterization of sulfonated polysulfone membranes for direct methanol fuel cells. Journal of Power Sources, 2006, 157, 222-225.	4.0	105
526	Chemical and structural instabilities of lithium ion battery cathodes. Journal of Power Sources, 2006, 159, 249-253.	4.0	39
527	Factors limiting the electrochemical performance of oxide cathodes. Solid State Ionics, 2006, 177, 2629-2634.	1.3	47
528	Structural and electrochemical characterization of the layered LiNiMnCoO (0 ≤ z ≤ 1) cathodes. Solid State Ionics, 2005, 176, 2251-2256.	1.3	47
529	Investigation of hydrogen content in chemically delithiated lithium-ion battery cathodes using prompt gamma activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 2005, 265, 321-328.	0.7	12
530	Influence of Lattice Parameter Differences on the Electrochemical Performance of the 5 V Spinel LiMn _{1.5-y} Ni _{0.5-z} M _{y+z} O ₄ (M=Li, Mg, Fe, Co, and Zn). Electrochemical and Solid-State Letters, 2005, 8, A403.	2.2	102
531	Factors Influencing the Lithium Extraction Rate in Layered Oxide Cathodes of Lithium Ion Cells. Materials Research Society Symposia Proceedings, 2004, 835, K11.11.1.	0.1	0
532	Influence of atomic ordering on the electrocatalytic activity of Pt-Co alloys in alkaline electrolyte and proton exchange membrane fuel cells. Journal of Materials Chemistry, 2004, 14, 1454-1460.	6.7	108
533	High Capacity Surface-Modified LiCoO ₂ Cathodes for Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2003, 6, A16.	2.2	146
534	Influence of the Lattice Parameter Difference between the Two Cubic Phases Formed in the 4 V Region on the Capacity Fading of Spinel Manganese Oxides. Chemistry of Materials, 2003, 15, 2954-2961.	3.2	79
535	Structural and Chemical Characterization of Layered Li _{1-x} Ni _{1-y} MnyO ₂₋₁ (y = 0.25 and 0.5, and 0 ≤ x ≤ 1) Tj, ETQq1 1 0.7843 3.2 60	3.2	60
536	Sulfonated Poly(ether ether ketone) Membranes for Direct Methanol Fuel Cells. Electrochemical and Solid-State Letters, 2003, 6, A229.	2.2	129
537	Phase Relationships and Structural and Chemical Stabilities of Charged Li _{1-x} CoO ₂₋₁ and Li _{1-x} Ni _{0.85} Co _{0.15} O ₂₋₁ Cathodes. Electrochemical and Solid-State Letters, 2003, 6, A9.	2.2	135
538	Crystal Chemistry of Chemically Delithiated Layered Oxide Cathodes of Lithium Ion Batteries. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	0
539	DESIGNING CHEMICALLY AND STRUCTURALLY STABLE CATHODE HOSTS FOR LITHIUM ION CELLS. , 2002, , .		0
540	Synthesis and Characterization of P3-Type CoO ₂₋₁ . Chemistry of Materials, 2002, 14, 3907-3912.	3.2	92

#	ARTICLE	IF	CITATIONS
541	Synthesis and Electrochemical Properties of $\text{LiCo}_{2}\text{O}_{4}$ Spinel Cathodes. Journal of the Electrochemical Society, 2002, 149, A162.	1.3	57
542	Synthesis, crystal chemistry, and electrical, oxygen permeation, and magnetic properties of $\text{LaSr}_{3}\text{CaFe}_{2-x}\text{Co}_{x}\text{O}_{10}$ ($0 \leq x \leq 2$ and $0 \leq y \leq 2$). Journal of Materials Chemistry, 2002, 12, 2390-2395.	6.7	11
543	Comparison of the Chemical Stability of $\text{Li}_{1-x}\text{CoO}_{2}$ and $\text{Li}_{1-x}\text{Ni}_{0.85}\text{Co}_{0.15}\text{O}_{2}$ Cathodes. Journal of Solid State Chemistry, 2002, 163, 5-9.	1.4	59
544	Pt-M (M=Fe, Co, Ni and Cu) electrocatalysts synthesized by an aqueous route for proton exchange membrane fuel cells. Electrochemistry Communications, 2002, 4, 898-903.	2.3	260
545	Oxygen separation membranes based on intergrowth structures. Solid State Ionics, 2002, 152-153, 647-655.	1.3	59
546	Soft Chemistry Synthesis and Characterization of Layered $\text{Li}_{1-x}\text{Ni}_{1-y}\text{Co}_{y}\text{O}_{2}$ ($0 \leq x \leq 1$ and $0 \leq y \leq 1$). Chemistry of Materials, 2001, 13, 2951-2957.	3.2	168
547	Structural Instability of Delithiated $\text{Li}_{1-x}\text{Ni}_{1-y}\text{Co}_{y}\text{O}_{2}$ Cathodes. Journal of the Electrochemical Society, 2001, 148, A49.	1.3	81
548	Comparison of the chemical stability of the high energy density cathodes of lithium-ion batteries. Electrochemistry Communications, 2001, 3, 624-627.	2.3	162
549	Synthesis, Crystal Chemistry, and Electrical and Magnetic Properties of $\text{Sr}_{3}\text{Fe}_{2-x}\text{Co}_{x}\text{O}_{7}$ ($0 \leq x \leq 0.8$). Journal of Solid State Chemistry, 2001, 158, 307-314.	1.4	46
550	Synthesis, crystal chemistry, and oxygen permeation properties of $\text{LaSr}_{3}\text{Fe}_{3-x}\text{Co}_{x}\text{O}_{10}$ ($0 \leq x \leq 1.5$). Solid State Ionics, 2001, 140, 89-96.	1.3	80
551	Structural Stability and Oxygen Permeation Properties of $\text{Sr}_{3-x}\text{La}_{x}\text{Fe}_{2-y}\text{Co}_{y}\text{O}_{7}$ ($0 \leq x \leq 0.3$ and $0 \leq y \leq 1.0$). Journal of the Electrochemical Society, 2001, 148, J7.	1.3	73
552	Comparison of the crystal chemistry and electrical properties of $\text{La}_{2-x}\text{A}_{x}\text{NiO}_{4}$ (A = Ca, Sr, and Ba). Materials Research Bulletin, 2000, 35, 411-424.	2.7	57
553	Chains composed of nanosize metal particles and identifying the factors driving their formation. Applied Physics Letters, 1997, 70, 2469-2471.	1.5	58
554	Synthesis, Characterization, and Electrochemical Properties of Amorphous CrO_{2} . Journal of the Electrochemical Society, 1997, 144, 3077-3081.	1.3	14
555	Amorphous and Nanocrystalline Oxide Electrodes for Rechargeable Lithium Batteries. Materials Research Society Symposia Proceedings, 1997, 496, 421.	0.1	2
556	Synthesis of Nanocrystalline VO_{2} and Its Electrochemical Behavior in Lithium Batteries. Journal of the Electrochemical Society, 1997, 144, 520-524.	1.3	201
557	A manganese oxyiodide cathode for rechargeable lithium batteries. Nature, 1997, 390, 265-267.	13.7	223
558	Chemical synthesis, microstructure, and magnetic properties of chains composed of ultrafine FeCoB particles. Journal of Applied Physics, 1996, 80, 4534-4540.	1.1	27

#	ARTICLE	IF	CITATIONS
559	Fine magnetic particles in layered silicates and zeolites. IEEE Transactions on Magnetics, 1995, 31, 3784-3786.	1.2	5
560	Synthesis of Wc-Co Nanocomposites Using Polymer as Carbon Source. Materials Research Society Symposia Proceedings, 1994, 346, 463.	0.1	2
561	Strength analysis of random short-fibre-reinforced metal matrix composite materials. Journal of Materials Science, 1994, 29, 6281-6286.	1.7	42
562	A New Route for The Synthesis of Reduced Transition Metal Oxides Using Borohydrides. Materials Research Society Symposia Proceedings, 1994, 346, 69.	0.1	1
563	Chemistry of electron doped $\text{Ln}_2\text{x}\text{Ce}_x\text{CuO}_4$ superconductors. Journal of Electronic Materials, 1993, 22, 1195-1198.	1.0	1
564	Relative Reactivity Trends OP High Temperature Superconductor Phases. Materials Research Society Symposia Proceedings, 1992, 275, 711.	0.1	2
565	Hole concentration and T_c in $\text{Tl}_2\text{yBa}_2\text{Ca}_{1-z}\text{YzCu}_2\text{O}_{8-x}$. Journal of Solid State Chemistry, 1992, 98, 343-349.	1.4	13
566	Chemical synthesis and properties of $\text{Li}_1\text{x}\text{Ni}_{1-x}\text{O}_2$ and $\text{Li}[\text{Ni}_2]\text{O}_4$. Journal of Solid State Chemistry, 1992, 96, 123-131.	1.4	118
567	CRYSTAL CHEMISTRY AND SUPERCONDUCTIVITY IN THE COPPER OXIDES. , 1991, , 1-56.		4
568	Electron-doped superconductivity at 40 K in the infinite-layer compound $\text{Sr}_1\text{yNdyCuO}_2$. Nature, 1991, 351, 549-551.	13.7	456
569	Electron diffraction and microscopy study of oxygen ordering in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. Journal of Materials Research, 1990, 5, 9-16.	1.2	40
570	Lithium insertion into $\text{Fe}_2(\text{SO}_4)_3$ frameworks. Journal of Power Sources, 1989, 26, 403-408.	4.0	350
571	Identifying the Pairing Mechanism in High- T_c Superconductors. Materials Research Society Symposia Proceedings, 1989, 156, 339.	0.1	5
572	Vanishing of superconductivity at a transition from itinerant electron to small polaron conduction in nominal $\text{Bi}_4\text{xPbx}(\text{Sr}_3\text{Ca})\text{Ca}_2\text{xYxCu}_4\text{O}_{16}$. Applied Physics Letters, 1988, 53, 2695-2697.	1.5	19
573	Dependence of T_c on hole concentration in the superconductors $\text{Bi}_4\text{Sr}_3\text{Ca}_3\text{xYxCu}_4\text{O}_{16-\delta}$. Applied Physics Letters, 1988, 53, 420-422.	1.5	116
574	THE ROLE OF OXYGEN IN $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. International Journal of Modern Physics B, 1988, 02, 379-391.	1.0	12
575	Lithium Insertion Compounds. Materials Research Society Symposia Proceedings, 1988, 135, 391.	0.1	18
576	Co and Fe substitution in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. Journal of Materials Research, 1988, 3, 248-256.	1.2	52

#	ARTICLE	IF	CITATIONS
577	The influence of oxygen variation on the crystal structure and phase composition of the superconductor yttrium barium copper oxide (YBa ₂ Cu ₃ O _{7-x}). Journal of the American Chemical Society, 1987, 109, 6667-6669.	6.6	202
578	Lithium insertion into Fe ₂ (MO ₄) ₃ frameworks: Comparison of M = W with M = Mo. Journal of Solid State Chemistry, 1987, 71, 349-360.	1.4	265
579	Synthesis of the high-T _c superconductor YBa ₂ Cu ₃ O ₇ in small particle size. Nature, 1987, 329, 701-703.	13.7	123
580	Topochemically controlled hydrogen reduction of scheelite-related rare-earth metal molybdates. Journal of the Chemical Society Dalton Transactions, 1981, , 668.	1.1	16
581	X-ray spectroscopic study of chromium, nickel, and molybdenum compounds. The Journal of Physical Chemistry, 1980, 84, 2200-2203.	2.9	33
582	A Facile Potential Hold Method for Fostering an Inorganic Solid-Electrolyte Interphase for Anode-Free Lithium-Metal Batteries. Angewandte Chemie, 0, , .	1.6	3