

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, .	12.8	2
2	Next-Generation Energy Harvesting and Storage Technologies for Robots Across All Scales. <i>Advanced Intelligent Systems</i> , 2023, 5, .	6.1	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.	4.3	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.	4.8	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.	14.9	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.	3.3	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, .	19.5	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.	17.4	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.	30.8	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, .	13.8	36
12	Creating a rechargeable world. <i>CheM</i> , 2022, 8, 312-318.	11.7	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.	6.7	38
14	Polyanionic insertion hosts for aqueous rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6376-6396.	10.3	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.	10.0	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, .	19.5	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.	8.0	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, .	19.5	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, .	2.0	8
20	Foldable Solid-State Batteries Enabled by Electrolyte Mediation in Covalent Organic Frameworks. <i>Advanced Materials</i> , 2022, 34, e2201410.	21.0	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.	5.6	8
22	Covalent Organic Framework as an Efficient Protection Layer for a Stable Lithium-Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	45
23	Ethylene Carbonate-Free Electrolytes for Stable, Safer High-Nickel Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	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.	2.9	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.	8.0	21
26	Lithium Trithiocarbonate as a Dual-Function Electrode Material for High-Performance Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	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.	6.7	9
28	Protection of Cobalt-Free LiNi ₂ from Degradation with Localized Saturated Electrolytes in Lithium-Metal Batteries. <i>ACS Energy Letters</i> , 2022, 7, 2165-2172.	17.4	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.	6.7	0
30	Stable Sodium-Based Batteries with Advanced Electrolytes and Layered-Oxide Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28865-28872.	8.0	11
31	John Goodenough's 100th Birthday Celebration: His Impact on Science and Humanity. <i>ACS Energy Letters</i> , 2022, 7, 2404-2406.	17.4	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.	5.1	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, .	14.9	19
34	Anode-Free Lithium-Sulfur Cells Enabled by Rationally Tuning Lithium Polysulfide Molecules. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	5
35	Anode-Free Lithium-Sulfur Cells Enabled by Rationally Tuning Lithium Polysulfide Molecules. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	13
36	Anode-Free Full Cells: A Pathway to High-Energy Density Lithium-Metal Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2000804.	19.5	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.	14.9	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.	18.0	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.	18.0	145
40	A review of composite polymer-ceramic electrolytes for lithium batteries. <i>Energy Storage Materials</i> , 2021, 34, 282-300.	18.0	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.	5.2	24
42	Evoking High-Donor-Number-Assisted and Organosulfur-Mediated Conversion in Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2021, 6, 224-231.	17.4	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.	5.8	19
44	Toward sustainable batteries. <i>Nature Sustainability</i> , 2021, 4, 379-380.	23.7	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.	30.8	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.	3.8	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.	4.9	18
48	In Honor of Nobel Laureate John B. Goodenough. <i>Advanced Energy Materials</i> , 2021, 11, 2002817.	19.5	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.	10.3	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.	19.5	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.	10.3	28
52	Advances and Prospects of High-Voltage Spinel Cathodes for Lithium-Based Batteries. <i>Small Methods</i> , 2021, 5, e2001196.	8.6	63
53	Crossover Effects in Batteries with High-Nickel Cathodes and Lithium-Metal Anodes. <i>Advanced Functional Materials</i> , 2021, 31, 2010267.	14.9	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.	17.4	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.	5.8	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.	8.0	84
57	Layered lithium cobalt oxide cathodes. <i>Nature Energy</i> , 2021, 6, 323-323.	39.5	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.	14.6	75
59	Stabilizing ultrahigh-nickel layered oxide cathodes for high-voltage lithium metal batteries. <i>Materials Today</i> , 2021, 44, 15-24.	14.2	53
60	Tailoring Lithium Polysulfide Coordination and Clustering Behavior through Cationic Electrostatic Competition. <i>Chemistry of Materials</i> , 2021, 33, 3457-3466.	6.7	31
61	A perspective on single-crystal layered oxide cathodes for lithium-ion batteries. <i>Energy Storage Materials</i> , 2021, 37, 143-160.	18.0	210
62	Artificial dual solid-electrolyte interfaces based on in situ organothiol transformation in lithium sulfur battery. <i>Nature Communications</i> , 2021, 12, 3031.	12.8	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.	8.0	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.	6.7	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.	8.0	23
66	A review on the stability and surface modification of layered transition-metal oxide cathodes. <i>Materials Today</i> , 2021, 46, 155-182.	14.2	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.	19.5	79
68	Rationally Designed PEGDA-LLZTO Composite Electrolyte for Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30703-30711.	8.0	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.	7.8	11
70	Elemental Foil Anodes for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2666-2672.	17.4	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.	21.0	62
72	Lithium-based polyanion oxide cathodes. <i>Nature Energy</i> , 2021, 6, 844-845.	39.5	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.	19.5	58
74	Understanding Zn-Ion Insertion Chemistry through Nonaqueous Electrochemical Investigation of 2H-NbSe ₂ . <i>Advanced Materials Interfaces</i> , 2021, 8, 2100878.	3.7	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.	8.0	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.	5.1	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.	18.0	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.	5.1	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, .	19.5	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.	17.4	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.	6.7	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.	13.7	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.	5.1	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.	2.9	4
85	Nitrate additives for lithium batteries: Mechanisms, applications, and prospects. <i>EScience</i> , 2021, 1, 108-123.	41.6	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.	6.7	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.	6.7	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.	8.6	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.	19.5	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.	19.5	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.	8.0	13
92	Towards more environmentally and socially responsible batteries. Energy and Environmental Science, 2020, 13, 4087-4097.	30.8	74
93	Industrialization of Layered Oxide Cathodes for Lithium-ion and Sodium-ion Batteries: A Comparative Perspective. Energy Technology, 2020, 8, 2000723.	3.8	36
94	A Review of the Design of Advanced Binders for High-Performance Batteries. Advanced Energy Materials, 2020, 10, 2002508.	19.5	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.	7.8	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.	6.7	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.	8.0	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.	19.5	66
99	Xanthogen Polysulfides as a New Class of Electrode Material for Rechargeable Batteries. Advanced Energy Materials, 2020, 10, 2001658.	19.5	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.	6.7	49
101	Designing Advanced Lithium-Based Batteries for Low-Temperature Conditions. Advanced Energy Materials, 2020, 10, 2001972.	19.5	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.	8.0	46
103	Synthesis Control of Layered Oxide Cathodes for Sodium-ion Batteries: A Necessary Step Toward Practicality. Chemistry of Materials, 2020, 32, 8431-8441.	6.7	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.	19.5	140
105	Direct Urea Fuel Cells: Recent Progress and Critical Challenges of Urea Oxidation Electrocatalysis. Advanced Energy and Sustainability Research, 2020, 1, 2000015.	5.8	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.	6.7	152
107	Molybdenum Boride as an Efficient Catalyst for Polysulfide Redox to Enable High-Energy-Density Lithium-Sulfur Batteries. Advanced Materials, 2020, 32, e2004741.	21.0	148
108	Recent Advances in Lithium-Carbon Dioxide Batteries. Small Structures, 2020, 1, 2000027.	12.0	57

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109	A Progress Report on Metal-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2004084.	14.9	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.	6.7	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.	13.7	35
112	Free Radicals: A Marriage of Solid State Science and Electrochemistry. <i>Electrochemical Society Interface</i> , 2020, 29, 34-35.	0.4	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.	19.5	145
114	An Artificial Protective Coating toward Dendrite-Free Lithium-Metal Anodes for Lithium-Sulfur Batteries. <i>Energy Technology</i> , 2020, 8, 2000348.	3.8	19
115	Anode-free, Lean-Electrolyte Lithium-Sulfur Batteries Enabled by Tellurium-Stabilized Lithium Deposition. <i>Joule</i> , 2020, 4, 1121-1135.	24.0	126
116	Recent Progress in High Donor Electrolytes for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001456.	19.5	112
117	A Metal Organic Framework Derived Solid Electrolyte for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001285.	19.5	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.	17.4	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.	8.0	60
120	A reflection on lithium-ion battery cathode chemistry. <i>Nature Communications</i> , 2020, 11, 1550.	12.8	1,398
121	Reining in dissolved transition-metal ions. <i>Science</i> , 2020, 369, 140-141.	12.6	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.	18.0	20
123	Multivalent-Ion versus Proton Insertion into Battery Electrodes. <i>ACS Energy Letters</i> , 2020, 5, 2367-2375.	17.4	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.	10.0	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.	30.8	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.	21.0	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.	6.7	76
128	Lithium-Sulfur Batteries: Attaining the Critical Metrics. Joule, 2020, 4, 285-291.	24.0	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.	5.1	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.	39.5	940
132	A mediator-ion nitrobenzene - iodine nonaqueous redox flow battery with asymmetric solvents. Energy Storage Materials, 2020, 29, 266-272.	18.0	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.	4.7	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.	5.1	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.	10.3	19
136	Lattice doping regulated interfacial reactions in cathode for enhanced cycling stability. Nature Communications, 2019, 10, 3447.	12.8	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.	21.0	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.	5.1	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.	19.5	131
140	Less pore equals more. Nature Energy, 2019, 4, 908-909.	39.5	9
141	Energy Spotlight. ACS Energy Letters, 2019, 4, 2763-2769.	17.4	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.	6.7	71
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415	Understanding the Influence of Composition and Synthesis Temperature on Oxygen Loss, Reversible Capacity, and Electrochemical Behavior of Li_2MnO_3 (~ 1 e ⁻) Tj ETQq1 1 0.784314 3.19 BT / Overlock 101 23553-23558.	3.19	21
416	High-Capacity, Aliovalently Doped Olivine $\text{LiMn}_2\text{V}_2\text{PO}_4$ Cathodes without Carbon Coating. Chemistry of Materials, 2014, 26, 3018-3026.	6.7	37
417	Effects of In substitution in $\text{Y}_1\text{In BaCo}_3\text{ZnO}_7 + (0 \leq x \leq 0.5)$ cathodes for intermediate temperature solid oxide fuel cells. Journal of Power Sources, 2014, 271, 252-261.	7.8	10
418	High-Performance Li/Dissolved Polysulfide Batteries with an Advanced Cathode Structure and High Sulfur Content. Advanced Energy Materials, 2014, 4, 1400897.	19.5	55
419	Eggshell Membrane-Derived Polysulfide Absorbents for Highly Stable and Reversible Lithium-Sulfur Cells. ACS Sustainable Chemistry and Engineering, 2014, 2, 2248-2252.	6.7	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. Chemistry of Materials, 2014, 26, 4377-4386.	6.7	132
421	Rechargeable Lithium-Sulfur Batteries. Chemical Reviews, 2014, 114, 11751-11787.	47.7	3,842
422	Chemical and Electrochemical Lithiation of LiVOPO_4 Cathodes for Lithium-Ion Batteries. Chemistry of Materials, 2014, 26, 3849-3861.	6.7	63
423	Nanostructured $\text{Li}_2\text{MnSiO}_4/\text{C}$ Cathodes with Hierarchical Macro-Mesoporosity for Lithium-Ion Batteries. Advanced Functional Materials, 2014, 24, 5277-5283.	14.9	51
424	Effect of Synthesis Conditions on the First Charge and Reversible Capacities of Lithium-Rich Layered Oxide Cathodes. Chemistry of Materials, 2013, 25, 3267-3275.	6.7	98
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427	Low-cost, Mo(S,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. RSC Advances, 2013, 3, 19946.	3.6	9
428	Crystal-Chemical Guide for Understanding Redox Energy Variations of $\text{M}^{2+/3+}$ Couples in Polyanion Cathodes for Lithium-Ion Batteries. Chemistry of Materials, 2013, 25, 4010-4016.	6.7	104
429	Impact of Lithium Bis(oxalate)borate Electrolyte Additive on the Performance of High-Voltage Spinel/Graphite Li-Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 22603-22612.	3.1	159
430	Superior power density solid oxide fuel cells by enlarging the three-phase boundary region of a $\text{NiO-Ce}_0.8\text{Gd}_0.2\text{O}_{1.9}$ composite anode through optimized surface structure. Physical Chemistry Chemical Physics, 2013, 15, 14966.	2.8	16
431	A Rapid Microwave-Assisted Solvothermal Approach to Lower-Valent Transition Metal Oxides. Inorganic Chemistry, 2013, 52, 13087-13093.	4.0	19
432	<i>In Situ</i> -Formed Li_2S in Lithiated Graphite Electrodes for Lithium-Sulfur Batteries. Journal of the American Chemical Society, 2013, 135, 18044-18047.	13.7	140

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434	Effect of interfacial dipoles on charge traps in organic-inorganic hybrid solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3258.	10.3	9
435	Temperature Dependence of Aliovalent-Vanadium Doping in LiFePO_4 Cathodes. <i>Chemistry of Materials</i> , 2013, 25, 768-781.	6.7	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.	10.3	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 ETQq1, 1.0.784314 rgBT (0)	10.3	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.	10.3	110
439	Highly reversible Li/dissolved polysulfide batteries with binder-free carbon nanofiber electrodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10362.	10.3	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.	10.3	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.	10.3	38
442	Nano-cellular carbon current collectors with stable cyclability for Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9590.	10.3	73
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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.	10.3	52
446	Effects of bifunctional metal sulfide interlayers on photovoltaic properties of organic-inorganic hybrid solar cells. <i>RSC Advances</i> , 2013, 3, 5412.	3.6	26
447	Hydroxylated Graphene-Sulfur Nanocomposites for High-Rate Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 1008-1012.	19.5	395
448	Microwave-Assisted Solvothermal Synthesis and Characterization of Various Polymorphs of LiVOPO_4 . <i>Chemistry of Materials</i> , 2013, 25, 1751-1760.	6.7	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.	3.6	6
450	Highly Reversible Lithium/Dissolved Polysulfide Batteries with Carbon Nanotube Electrodes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6930-6935.	13.8	291

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452	Randomly stacked holey graphene anodes for lithium ion batteries with enhanced electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7775.	10.3	104
453	Origin of Site Disorder and Oxygen Nonstoichiometry in $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{M}_{0.4}\text{O}_4$ (M = Cu and Zn) Cathodes with Divalent Dopant Ions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12465-12471.	3.1	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.	6.7	147
455	A strategic approach to recharging lithium-sulphur batteries for long cycle life. <i>Nature Communications</i> , 2013, 4, 2985.	12.8	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.	2.9	29
457	High-Performance $\text{M}_x\text{Sb}_2\text{O}_3$ (M=Fe, Ni, and Cu) Nanocomposite Alloy Anodes for Sodium-Ion Batteries. <i>Energy Technology</i> , 2013, 1, 319-326.	3.8	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.	3.6	9
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460	Understanding structural defects in lithium-rich layered oxide cathodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 11550.	6.7	68
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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.	8.0	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.	2.8	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.	3.6	35
466	Hydrocarbon blend membranes with suppressed chemical crossover for redox flow batteries. <i>RSC Advances</i> , 2012, 2, 5554.	3.6	29
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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.	4.1	689

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470	Calculations of Oxygen Stability in Lithium-Rich Layered Cathodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23201-23204.	3.1	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.	6.7	202
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473	Core-shell structured sulfur-polypyrrole composite cathodes for lithium-sulfur batteries. <i>RSC Advances</i> , 2012, 2, 5927.	3.6	211
474	Lithium-sulphur batteries with a microporous carbon paper as a bifunctional interlayer. <i>Nature Communications</i> , 2012, 3, 1166.	12.8	1,298
475	Sulfur-Polypyrrole Composite Cathodes for Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1420-A1424.	2.9	141
476	Role of Oxygen Vacancies on the Performance of $\text{Li}[\text{Ni}_{0.5}\text{Mn}_{1.5+x}\text{O}_{4}]$ ($x = 0, 0.05, \text{ and } 0.08$) Spinel Cathodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2012, 24, 3101-3109.	6.7	283
477	Application of Derivative Voltammetry in the Analysis of Methanol Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3827-3832.	3.1	55
478	Precursor-directed formation of hollow Co_3O_4 nanospheres exhibiting superior lithium storage properties. <i>RSC Advances</i> , 2012, 2, 3187.	3.6	67
479	A dual-electrolyte rechargeable Li-air battery with phosphate buffer catholyte. <i>Electrochemistry Communications</i> , 2012, 14, 78-81.	4.7	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.	5.2	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.	7.8	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.	6.7	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.	3.1	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.	0.5	8

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488	Materials Challenges and Opportunities of Lithium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 176-184.	4.6	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.	4.7	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.	7.1	24
491	Crystal chemistry and properties of mixed ionic-electronic conductors. <i>Journal of Electroceramics</i> , 2011, 27, 93-107.	2.0	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.	5.2	13
493	Effects of Ga substitution on the high temperature properties of the $n=3$ Ruddlesden Popper system $\text{LaSr}_3\text{Fe}_{1.5-x/2}\text{Co}_{1.5-x/2}\text{Ga}_x\text{O}_{10}$ ($0 \leq x \leq 0.8$). <i>Solid State Ionics</i> , 2011, 192, 241-244.	2.7	13
494	Electrochemical Properties of $\text{Ln}(\text{Sr},\text{Ca})_3(\text{Fe},\text{Co})_3\text{O}_{10}\text{Gd}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$ Composite Cathodes for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2011, 158, B1206.	2.9	11
495	Rapid Microwave-Assisted Solvothermal Synthesis of Methanol Tolerant PtPdCo Nanoalloy Electro catalysts. <i>Fuel Cells</i> , 2010, 10, 375-383.	2.4	26
496	Effect of Fe substitution on the structure and properties of $\text{LnBaCo}_2\text{FeO}_5$ ($\text{Ln} = \text{Nd}$ and Gd) cathodes. <i>Journal of Power Sources</i> , 2010, 195, 6411-6419.	7.8	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.	4.7	201
498	Low Thermal Expansion $\text{RBa}(\text{Co},\text{M})_4\text{O}_7$ Cathode Materials Based on Tetrahedral-Site Cobalt Ions for Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2010, 22, 822-831.	6.7	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.	3.1	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 ($M = \text{Fe}, \text{Mn}, \text{Co}, \text{and Mg}$) Solid Solution Cathodes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15530-15540.	3.1	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.	2.9	135
504	Characterization of $\text{Sr}_{2.7}\text{Ln}_{0.3}\text{Fe}_{1.4}\text{Co}_{0.6}\text{O}_7$ ($\text{Ln}=\text{La}, \text{Nd}, \text{Sm}, \text{Gd}$) intergrowth oxides as cathodes for solid oxide fuel cells. <i>Solid State Ionics</i> , 2009, 180, 1478-1483.	2.7	30

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506	Dimensionally Modulated, Single-Crystalline LiMPO ₄ (M= Mn, Fe, Co, and Ni) with Nano-Thumblike Shapes for High-Power Energy Storage. <i>Inorganic Chemistry</i> , 2009, 48, 946-952.	4.0	167
507	Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , 2009, 2, 559.	30.8	348
508	Understanding the Improved Electrochemical Performances of Fe-Substituted 5 V Spinel Cathode LiMn _{1.5} Ni _{0.5} O ₄ . <i>Journal of Physical Chemistry C</i> , 2009, 113, 15073-15079.	3.1	280
509	Controlled synthesis and characterization of carbon-supported Pd ₄ Co nanoalloy electrocatalysts for oxygen reduction reaction in fuel cells. <i>Energy and Environmental Science</i> , 2009, 2, 124-132.	30.8	46
510	Low cost Pd-W nanoalloy electrocatalysts for oxygen reduction reaction in fuel cells. <i>Journal of Materials Chemistry</i> , 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. <i>Journal of Materials Chemistry</i> , 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. <i>Chemistry of Materials</i> , 2009, 21, 1695-1707.	6.7	345
513	LnBaCo ₂ O _{5+δ} Oxides as Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2008, 155, B385.	2.9	365
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515	Nanostructured electrode materials for electrochemical energy storage and conversion. <i>Energy and Environmental Science</i> , 2008, 1, 621.	30.8	548
516	Comparison of Microwave Assisted Solvothermal and Hydrothermal Syntheses of LiFePO ₄ /C Nanocomposite Cathodes for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14665-14671.	3.1	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. <i>Journal of Materials Chemistry</i> , 2008, 18, 190-198.	6.7	30
518	Synthesis and Characterization of Nanostructured Pd-Mo Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12037-12043.	3.1	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. <i>Chemistry of Materials</i> , 2007, 19, 3067-3073.	6.7	218
520	Comparison of Metal Ion Dissolutions from Lithium Ion Battery Cathodes. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1760.	2.9	240
521	Factors influencing the crystal chemistry of chemically delithiated layered H _x Ni _{1-y} zMnyCo _z O ₂ . <i>Journal of Materials Chemistry</i> , 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. <i>Journal of the Electrochemical Society</i> , 2006, 153, A794.	2.9	136

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528	Structural and electrochemical characterization of the layered LiNiMnCoO (0 ≤ z ≤ 1) cathodes. Solid State Ionics, 2005, 176, 2251-2256.	2.7	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.	1.5	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.	6.7	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 6.7 60	6.7	60
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