

Yang-Kook Sun

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673
papers

61,128
citations

121
h-index

218
g-index

723
ext. papers

69,516
ext. citations

11.2
avg, IF

8.44
L-index

#	Paper	IF	Citations
673	Sodium-ion batteries: present and future. <i>Chemical Society Reviews</i> , 2017 , 46, 3529-3614	58.5	2356
672	Challenges facing lithium batteries and electrical double-layer capacitors. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9994-10024	16.4	2149
671	Lithium-ion batteries. A look into the future. <i>Energy and Environmental Science</i> , 2011 , 4, 3287	35.4	1906
670	Comparison of the structural and electrochemical properties of layered Li[NixCoyMnz]O2 (x+y+z=1/3, 0.5, 0.6, 0.7, 0.8 and 0.85) cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 233, 121-130	8.9	1191
669	High-energy cathode material for long-life and safe lithium batteries. <i>Nature Materials</i> , 2009 , 8, 320-4	27	1155
668	An improved high-performance lithium-air battery. <i>Nature Chemistry</i> , 2012 , 4, 579-85	17.6	909
667	Aprotic and aqueous Li-O ₂ batteries. <i>Chemical Reviews</i> , 2014 , 114, 5611-40	68.1	841
666	Nanostructured high-energy cathode materials for advanced lithium batteries. <i>Nature Materials</i> , 2012 , 11, 942-7	27	781
665	Nickel-Rich and Lithium-Rich Layered Oxide Cathodes: Progress and Perspectives. <i>Advanced Energy Materials</i> , 2016 , 6, 1501010	21.8	742
664	Nickel-Rich Layered Cathode Materials for Automotive Lithium-Ion Batteries: Achievements and Perspectives. <i>ACS Energy Letters</i> , 2017 , 2, 196-223	20.1	726
663	Capacity Fading of Ni-Rich Li[NixCoyMn1-x-y]O2 (0.6 ≤ x ≤ 0.95) Cathodes for High-Energy-Density Lithium-Ion Batteries: Bulk or Surface Degradation?. <i>Chemistry of Materials</i> , 2018 , 30, 1155-1163	9.6	620
662	Comparative Study of LiNi _{0.5} Mn _{1.5} O ₄ -F and LiNi _{0.5} Mn _{1.5} O ₄ Cathodes Having Two Crystallographic Structures: Fd3m and P4332. <i>Chemistry of Materials</i> , 2004 , 16, 906-914	9.6	603
661	The role of AlF ₃ coatings in improving electrochemical cycling of Li-enriched nickel-manganese oxide electrodes for Li-ion batteries. <i>Advanced Materials</i> , 2012 , 24, 1192-6	24	558
660	A lithium-oxygen battery based on lithium superoxide. <i>Nature</i> , 2016 , 529, 377-82	50.4	520
659	Role of surface coating on cathode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7606		477
658	The lithium/air battery: still an emerging system or a practical reality?. <i>Advanced Materials</i> , 2015 , 27, 784-800	24	471
657	Synthetic optimization of Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ via co-precipitation. <i>Electrochimica Acta</i> , 2004 , 50, 939-948	6.7	461

656	Role of Alumina Coating on Li _{1-x} Ni _x Co _{0.1} Mn _{0.9} O ₂ Particles as Positive Electrode Material for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2005 , 17, 3695-3704	9.6	440
655	Present and Future Perspective on Electrode Materials for Rechargeable Zinc-Ion Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 2620-2640	20.1	439
654	Titanium-Based Anode Materials for Safe Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 959-969	15.6	400
653	Microscale spherical carbon-coated Li ₄ Ti ₅ O ₁₂ as ultra high power anode material for lithium batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 1345	35.4	399
652	The Application of Metal Sulfides in Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1601329	21.8	395
651	Anatase titania nanorods as an intercalation anode material for rechargeable sodium batteries. <i>Nano Letters</i> , 2014 , 14, 416-22	11.5	376
650	Synthesis and characterization of Li[(Ni _{0.8} Co _{0.1} Mn _{0.1}) _{0.8} (Ni _{0.5} Mn _{0.5}) _{0.2}]O ₂ with the microscale core-shell structure as the positive electrode material for lithium batteries. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13411-8	16.4	363
649	Recent Progress in Rechargeable Potassium Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1802938	15.6	362
648	A nanostructured cathode architecture for low charge overpotential in lithium-oxygen batteries. <i>Nature Communications</i> , 2013 , 4, 2383	17.4	355
647	Ruthenium-based electrocatalysts supported on reduced graphene oxide for lithium-air batteries. <i>ACS Nano</i> , 2013 , 7, 3532-9	16.7	348
646	Electrochemical Zinc Intercalation in Lithium Vanadium Oxide: A High-Capacity Zinc-Ion Battery Cathode. <i>Chemistry of Materials</i> , 2017 , 29, 1684-1694	9.6	342
645	NaVO ₂ /BHO Barnesite Nanorod: An Open Door to Display a Stable and High Energy for Aqueous Rechargeable Zn-Ion Batteries as Cathodes. <i>Nano Letters</i> , 2018 , 18, 2402-2410	11.5	341
644	An advanced lithium ion battery based on high performance electrode materials. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3139-43	16.4	340
643	Nanostructured anode material for high-power battery system in electric vehicles. <i>Advanced Materials</i> , 2010 , 22, 3052-7	24	338
642	Double carbon coating of LiFePO ₄ as high rate electrode for rechargeable lithium batteries. <i>Advanced Materials</i> , 2010 , 22, 4842-5	24	329
641	Mn(II) deposition on anodes and its effects on capacity fade in spinel lithium manganate-carbon systems. <i>Nature Communications</i> , 2013 , 4, 2437	17.4	315
640	A high-rate long-life Li ₄ Ti ₅ O ₁₂ /Li[Ni _{0.45} Co _{0.1} Mn _{1.45}]O ₄ lithium-ion battery. <i>Nature Communications</i> , 2011 , 2, 516	17.4	301
639	Reversible NaFePO ₄ electrode for sodium secondary batteries. <i>Electrochemistry Communications</i> , 2012 , 22, 149-152	5.1	294

638	An Advanced Lithium-Sulfur Battery. <i>Advanced Functional Materials</i> , 2013 , 23, 1076-1080	15.6	284
637	Lithium-Oxygen Batteries and Related Systems: Potential, Status, and Future. <i>Chemical Reviews</i> , 2020 , 120, 6626-6683	68.1	279
636	High-Performance Carbon-LiMnPO ₄ Nanocomposite Cathode for Lithium Batteries. <i>Advanced Functional Materials</i> , 2010 , 20, 3260-3265	15.6	277
635	Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ as a suitable cathode for high power applications. <i>Journal of Power Sources</i> , 2003 , 123, 247-252	8.9	270
634	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	21.8	267
633	Electrochemical behavior and passivation of current collectors in lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9891		254
632	Electrochemical performance of nano-sized ZnO-coated LiNi _{0.5} Mn _{1.5} O ₄ spinel as 5 V materials at elevated temperatures. <i>Electrochemistry Communications</i> , 2002 , 4, 344-348	5.1	244
631	Advanced Na[Ni _{0.25} Fe _{0.5} Mn _{0.25}]O ₂ /C-Fe ₃ O ₄ sodium-ion batteries using EMS electrolyte for energy storage. <i>Nano Letters</i> , 2014 , 14, 1620-6	11.5	241
630	NaCrO ₂ cathode for high-rate sodium-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 2019-2026	35.4	239
629	Significant improvement of high voltage cycling behavior AlF ₃ -coated LiCoO ₂ cathode. <i>Electrochemistry Communications</i> , 2006 , 8, 821-826	5.1	226
628	Pushing the limit of layered transition metal oxide cathodes for high-energy density rechargeable Li ion batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 1271-1279	35.4	225
627	A Novel Cathode Material with a Concentration-Gradient for High-Energy and Safe Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2010 , 20, 485-491	15.6	225
626	Evaluation of (CF ₃ SO ₂) ₂ NÀ(TFSI) Based Electrolyte Solutions for Mg Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A7118-A7128	3.9	224
625	Synthesis and Electrochemical Properties of ZnO-Coated LiNi _{0.5} Mn _{1.5} O ₄ Spinel as 5 V Cathode Material for Lithium Secondary Batteries. <i>Electrochemical and Solid-State Letters</i> , 2002 , 5, A99		224
624	An effective method to reduce residual lithium compounds on Ni-rich Li[Ni _{0.6} Co _{0.2} Mn _{0.2}]O ₂ active material using a phosphoric acid derived Li ₃ PO ₄ nanolayer. <i>Nano Research</i> , 2015 , 8, 1464-1479	10	222
623	High-energy-density lithium-ion battery using a carbon-nanotube-Si composite anode and a compositionally graded Li[Ni _{0.85} Co _{0.05} Mn _{0.10}]O ₂ cathode. <i>Energy and Environmental Science</i> , 2016 , 9, 2152-2158	35.4	221
622	Surface modification of LiNi _{0.5} Mn _{1.5} O ₄ by ZrP ₂ O ₇ and ZrO ₂ for lithium-ion batteries. <i>Journal of Power Sources</i> , 2010 , 195, 2909-2913	8.9	219
621	Molten salt synthesis of LiNi _{0.5} Mn _{1.5} O ₄ spinel for 5 V class cathode material of Li-ion secondary battery. <i>Electrochimica Acta</i> , 2004 , 49, 219-227	6.7	213

620	Aqueous rechargeable Zn-ion batteries: an imperishable and high-energy Zn ₂ V ₂ O ₇ nanowire cathode through intercalation regulation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3850-3856	13	212
619	Redox Mediators for Li-O Batteries: Status and Perspectives. <i>Advanced Materials</i> , 2018 , 30, 1704162	24	206
618	Effectively suppressing dissolution of manganese from spinel lithium manganate via a nanoscale surface-doping approach. <i>Nature Communications</i> , 2014 , 5, 5693	17.4	202
617	Synthesis and electrochemical properties of Li[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ and Li[Ni _{0.8} Co _{0.2}]O ₂ via co-precipitation. <i>Journal of Power Sources</i> , 2006 , 159, 1328-1333	8.9	200
616	Black anatase titania enabling ultra high cycling rates for rechargeable lithium batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 2609	35.4	198
615	Improvement of long-term cycling performance of Li[Ni _{0.8} Co _{0.15} Al _{0.05}]O ₂ by AlF ₃ coating. <i>Journal of Power Sources</i> , 2013 , 234, 201-207	8.9	198
614	Structural Stability of LiNiO ₂ Cycled above 4.2 V. <i>ACS Energy Letters</i> , 2017 , 2, 1150-1155	20.1	197
613	Effect of Residual Lithium Compounds on Layer Ni-Rich Li[Ni _{0.7} Mn _{0.3}]O ₂ . <i>Journal of the Electrochemical Society</i> , 2014 , 161, A920-A926	3.9	197
612	Facile synthesis and the exploration of the zinc storage mechanism of MnO ₂ nanorods with exposed (101) planes as a novel cathode material for high performance eco-friendly zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23299-23309	13	194
611	Improved Cycling Stability of Li[Ni _{0.90} Co _{0.05} Mn _{0.05}]O ₂ Through Microstructure Modification by Boron Doping for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801202	21.8	194
610	Bottom-up in situ formation of Fe ₃ O ₄ nanocrystals in a porous carbon foam for lithium-ion battery anodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17325		194
609	Layered Li(Ni _{0.5} Mn _{0.5} M _{2x})O ₂ (M=Co, Al, Ti; x=0, 0.025) cathode materials for Li-ion rechargeable batteries. <i>Journal of Power Sources</i> , 2002 , 112, 41-48	8.9	192
608	Nanostructured metal phosphide-based materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14915-14931	13	191
607	Li ⁺ cells with LiBr as an electrolyte and a redox mediator. <i>Energy and Environmental Science</i> , 2016 , 9, 2334-2345	35.4	190
606	High electrochemical performances of microsphere C-TiO ₂ anode for sodium-ion battery. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11295-301	9.5	187
605	Surface modification of cathode materials from nano- to microscale for rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7074		187
604	Synthesis and structural characterization of layered Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ cathode materials by ultrasonic spray pyrolysis method. <i>Electrochimica Acta</i> , 2004 , 49, 557-563	6.7	187
603	A Mo ₂ C/Carbon Nanotube Composite Cathode for Lithium-Oxygen Batteries with High Energy Efficiency and Long Cycle Life. <i>ACS Nano</i> , 2015 , 9, 4129-37	16.7	181

602	Amorphous iron phosphate: potential host for various charge carrier ions. <i>NPG Asia Materials</i> , 2014 , 6, e138-e138	10.3	180
601	An advanced lithium-air battery exploiting an ionic liquid-based electrolyte. <i>Nano Letters</i> , 2014 , 14, 6572-6575	11.5	178
600	Lithiumbatterien und elektrische Doppelschichtkondensatoren: aktuelle Herausforderungen. <i>Angewandte Chemie</i> , 2012 , 124, 10134-10166	3.6	176
599	Ni ₃ (PO ₄) ₂ -coated Li[Ni _{0.8} Co _{0.15} Al _{0.05}]O ₂ lithium battery electrode with improved cycling performance at 55°C. <i>Journal of Power Sources</i> , 2011 , 196, 7742-7746	8.9	175
598	Significant Improvement of Electrochemical Performance of AlF ₃ -Coated Li[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A1005	3.9	175
597	Synthesis of porous carbon supported palladium nanoparticle catalysts by atomic layer deposition: application for rechargeable lithium-O ₂ battery. <i>Nano Letters</i> , 2013 , 13, 4182-9	11.5	170
596	High capacity and excellent stability of lithium ion battery anode using interface-controlled binder-free multiwall carbon nanotubes grown on copper. <i>ACS Nano</i> , 2010 , 4, 3440-6	16.7	170
595	Understanding the behavior of Li-O ₂ cells containing LiI. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8855-8864	13	169
594	On the Safety of the Li ₄ Ti ₅ O ₁₂ -LiMn ₂ O ₄ Lithium-Ion Battery System. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A1083	3.9	168
593	A high energy and power density hybrid supercapacitor based on an advanced carbon-coated Li ₄ Ti ₅ O ₁₂ electrode. <i>Journal of Power Sources</i> , 2013 , 221, 266-271	8.9	165
592	Evidence for lithium superoxide-like species in the discharge product of a Li-O ₂ battery. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3764-71	3.6	164
591	Micrometer-sized, nanoporous, high-volumetric-capacity LiMn ₂ O ₄ /PO ₄ cathode material for rechargeable lithium-ion batteries. <i>Advanced Materials</i> , 2011 , 23, 5050-4	24	163
590	Effect of the size-selective silver clusters on lithium peroxide morphology in lithium-oxygen batteries. <i>Nature Communications</i> , 2014 , 5, 4895	17.4	162
589	Degradation Mechanism of Ni-Enriched NCA Cathode for Lithium Batteries: Are Microcracks Really Critical?. <i>ACS Energy Letters</i> , 2019 , 4, 1394-1400	20.1	161
588	Beyond Doping and Coating: Prospective Strategies for Stable High-Capacity Layered Ni-Rich Cathodes. <i>ACS Energy Letters</i> , 2020 , 5, 1136-1146	20.1	161
587	Radially aligned hierarchical columnar structure as a cathode material for high energy density sodium-ion batteries. <i>Nature Communications</i> , 2015 , 6, 6865	17.4	160
586	Electrochemical characterization of Li ₂ MnO ₃ -Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ -LiNiO ₂ cathode synthesized via co-precipitation for lithium secondary batteries. <i>Journal of Power Sources</i> , 2009 , 189, 571-575	8.9	160
585	Increased Stability Toward Oxygen Reduction Products for Lithium-Air Batteries with Oligoether-Functionalized Silane Electrolytes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 25535-25542	3.8	159

584	Nano/Microstructured Silicon-Graphite Composite Anode for High-Energy-Density Li-Ion Battery. <i>ACS Nano</i> , 2019 , 13, 2624-2633	16.7	159
583	Cobalt-free nickel rich layered oxide cathodes for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11434-40	9.5	158
582	Effect of calcination temperature on morphology, crystallinity and electrochemical properties of nano-crystalline metal oxides (Co ₃ O ₄ , CuO, and NiO) prepared via ultrasonic spray pyrolysis. <i>Journal of Power Sources</i> , 2007 , 173, 502-509	8.9	158
581	Structural and Electrochemical Properties of Layered Li[Ni _{1-x} Co _x Mn _x]O ₂ (x=0.1-0.3) Positive Electrode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A971	3.9	152
580	High Capacity O ₃ -Type Na[Li _{0.05} (Ni _{0.25} Fe _{0.25} Mn _{0.5}) _{0.95}]O ₂ Cathode for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2014 , 26, 6165-6171	9.6	148
579	Improvement of electrochemical and thermal properties of Li[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ positive electrode materials by multiple metal (Al, Mg) substitution. <i>Electrochimica Acta</i> , 2009 , 54, 3851-3856	6.7	147
578	A contribution to the progress of high energy batteries: A metal-free, lithium-ion, silicon-sulfur battery. <i>Journal of Power Sources</i> , 2012 , 202, 308-313	8.9	146
577	Nanostructured TiO ₂ and Its Application in Lithium-Ion Storage. <i>Advanced Functional Materials</i> , 2011 , 21, 3231-3241	15.6	146
576	AlF ₃ -Coating to Improve High Voltage Cycling Performance of Li[Ni _{1-x} Co _x Mn _x]O ₂ Cathode Materials for Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A168	3.9	145
575	Degradation mechanisms in doped spinels of LiM _{0.05} Mn _{1.95} O ₄ (M=Li, B, Al, Co, and Ni) for Li secondary batteries. <i>Journal of Power Sources</i> , 2000 , 89, 7-14	8.9	144
574	Functionality of Oxide Coating for Li[Li _{0.05} Ni _{0.4} Co _{0.15} Mn _{0.4}]O ₂ as Positive Electrode Materials for Lithium-Ion Secondary Batteries. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4061-4067	3.8	143
573	Na Storage Capability Investigation of a Carbon Nanotube-Encapsulated Fe _{1-x} S Composite. <i>ACS Energy Letters</i> , 2017 , 2, 364-372	20.1	141
572	A metal-free, lithium-ion oxygen battery: a step forward to safety in lithium-air batteries. <i>Nano Letters</i> , 2012 , 12, 5775-9	11.5	141
571	High-Energy Ni-Rich Li[Ni _x Co _y Mn _{1-x-y}]O ₂ Cathodes via Compositional Partitioning for Next-Generation Electric Vehicles. <i>Chemistry of Materials</i> , 2017 , 29, 10436-10445	9.6	140
570	Extracting maximum capacity from Ni-rich Li[Ni _{0.95} Co _{0.025} Mn _{0.025}]O ₂ cathodes for high-energy-density lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4126-4132	13	139
569	Electrochemical stability and conductivity enhancement of composite polymer electrolytes. <i>Solid State Ionics</i> , 2003 , 159, 111-119	3.3	139
568	Structural transformation and electrochemical study of layered MnO ₂ in rechargeable aqueous zinc-ion battery. <i>Electrochimica Acta</i> , 2018 , 276, 1-11	6.7	138
567	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. <i>ACS Energy Letters</i> , 2019 , 4, 2995-3001	20.1	138

566	Development of microstrain in aged lithium transition metal oxides. <i>Nano Letters</i> , 2014 , 14, 4873-80	11.5	138
565	Preparation and characterization of nano-crystalline $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ for 5 V cathode material by composite carbonate process. <i>Electrochemistry Communications</i> , 2002 , 4, 989-994	5.1	137
564	New Insights on Graphite Anode Stability in Rechargeable Batteries: Li Ion Coordination Structures Prevail over Solid Electrolyte Interphases. <i>ACS Energy Letters</i> , 2018 , 3, 335-340	20.1	134
563	$\text{K}_2\text{V}_6\text{O}_{16} \cdot 2.7\text{H}_2\text{O}$ nanorod cathode: an advanced intercalation system for high energy aqueous rechargeable Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15530-15539	13	132
562	Rechargeable lithium sulfide electrode for a polymer tin/sulfur lithium-ion battery. <i>Journal of Power Sources</i> , 2011 , 196, 343-348	8.9	132
561	Improvement of structural and electrochemical properties of AlF_3 -coated $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ cathode materials on high voltage region. <i>Journal of Power Sources</i> , 2008 , 178, 826-831	8.9	132
560	Recent research trends in $\text{Li}\text{-}\text{S}$ batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11582-11605	13	130
559	Physical and electrochemical properties of spherical $\text{Li}_{1+x}(\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3})\text{O}_2$ cathode materials. <i>Journal of Power Sources</i> , 2008 , 177, 177-183	8.9	130
558	Improvement of High-Voltage Cycling Behavior of Surface-Modified $\text{Li}[\text{Ni}_{1-x}\text{Co}_x\text{Mn}_{1-x}]\text{O}_2$ Cathodes by Fluorine Substitution for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1707	3.9	129
557	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. <i>ACS Energy Letters</i> , 2020 , 5, 2376-2400	20.1	128
556	Transition metal carbide-based materials: synthesis and applications in electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10379-10393	13	128
555	Alternative materials for sodium ion-sulphur batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5256	13	127
554	Study on the Catalytic Activity of Noble Metal Nanoparticles on Reduced Graphene Oxide for Oxygen Evolution Reactions in Lithium-Air Batteries. <i>Nano Letters</i> , 2015 , 15, 4261-8	11.5	123
553	Development of $\text{P}_3\text{-K}_{0.69}\text{CrO}_2$ as an ultra-high-performance cathode material for K-ion batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 2821-2827	35.4	121
552	Recent advances in the Si-based nanocomposite materials as high capacity anode materials for lithium ion batteries. <i>Materials Today</i> , 2014 , 17, 285-297	21.8	121
551	Improvement of Electrochemical Performances of $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}]\text{O}_2$ Cathode Materials by Fluorine Substitution. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A649	3.9	121
550	Rational design of silicon-based composites for high-energy storage devices. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5366-5384	13	118
549	Quaternary Layered Ni-Rich NCMA Cathode for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 576-582	20.1	117

548	A High-Energy Li-Ion Battery Using a Silicon-Based Anode and a Nano-Structured Layered Composite Cathode. <i>Advanced Functional Materials</i> , 2014 , 24, 3036-3042	15.6	116
547	Superior Li/Na-storage capability of a carbon-free hierarchical CoS _x hollow nanostructure. <i>Nano Energy</i> , 2017 , 32, 320-328	17.1	115
546	Extending the Battery Life Using an Al-Doped Li[Ni _{0.76} Co _{0.09} Mn _{0.15}]O ₂ Cathode with Concentration Gradients for Lithium Ion Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 1848-1854	20.1	115
545	Designing a High-Performance Lithium-Sulfur Batteries Based on Layered Double Hydroxides-Carbon Nanotubes Composite Cathode and a Dual-Functional Graphene-Polypropylene-Al ₂ O ₃ Separator. <i>Advanced Functional Materials</i> , 2018 , 28, 1704294	15.6	115
544	Microstructure-Controlled Ni-Rich Cathode Material by Microscale Compositional Partition for Next-Generation Electric Vehicles. <i>Advanced Energy Materials</i> , 2019 , 9, 1803902	21.8	114
543	A novel concentration-gradient Li[Ni _{0.83} Co _{0.07} Mn _{0.10}]O ₂ cathode material for high-energy lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10108		113
542	Ultrafast sodium storage in anatase TiO ₂ nanoparticles embedded on carbon nanotubes. <i>Nano Energy</i> , 2015 , 16, 218-226	17.1	112
541	Cathode Material with Nanorod Structure—An Application for Advanced High-Energy and Safe Lithium Batteries. <i>Chemistry of Materials</i> , 2013 , 25, 2109-2115	9.6	112
540	Li _x Ni _{0.25} Mn _{0.75} O _y (0.5 ≤ x ≤ 2, 2 ≤ y ≤ 2.75) compounds for high-energy lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4510		112
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4 ¹⁷	Effect of sulfur and nickel doping on morphology and electrochemical performance of LiNi _{0.5} Mn _{1.5} O _{4-x} spinel material in 3-V region. <i>Journal of Power Sources</i> , 2006 , 161, 19-26	8.9	62
4 ¹⁶	An Alternative Approach to Enhance the Performance of High Sulfur-Loading Electrodes for Li-S Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 136-141	20.1	62
4 ¹⁵	Molecular-Scale Interfacial Model for Predicting Electrode Performance in Rechargeable Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 1584-1593	20.1	61
4 ¹⁴	Ultrathin alumina-coated carbon nanotubes as an anode for high capacity Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13621		61
4 ¹³	A sustainable iron-based sodium ion battery of porous carbon@Fe ₃ O ₄ /Na ₂ FeP ₂ O ₇ with high performance. <i>RSC Advances</i> , 2015 , 5, 8793-8800	3.7	60
4 ¹²	Tungsten doping for stabilization of Li[Ni _{0.90} Co _{0.05} Mn _{0.05}]O ₂ cathode for Li-ion battery at high voltage. <i>Journal of Power Sources</i> , 2019 , 442, 227242	8.9	60
4 ¹¹	The binder effect on an oxide-based anode in lithium and sodium-ion battery applications: the fastest way to ultrahigh performance. <i>Chemical Communications</i> , 2014 , 50, 13307-10	5.8	60
4 ¹⁰	Role of AlF ₃ Coating on LiCoO ₂ Particles during Cycling to Cutoff Voltage above 4.5 V. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A1005	3.9	60
4 ⁰⁹	Cobalt-Free High-Capacity Ni-Rich Layered Li[Ni _{0.9} Mn _{0.1}]O ₂ Cathode. <i>Advanced Energy Materials</i> , 2020 , 10, 1903179	21.8	60
4 ⁰⁸	High-Performance Cells Containing Lithium Metal Anodes, LiNiCoMnO (NCM 622) Cathodes, and Fluoroethylene Carbonate-Based Electrolyte Solution with Practical Loading. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19773-19782	9.5	60
4 ⁰⁷	Ordered mesoporous carbon electrodes for Li-O ₂ batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 13426-31	9.5	59
4 ⁰⁶	Nanoparticle TiN-coated type 310S stainless steel as bipolar plates for polymer electrolyte membrane fuel cell. <i>Electrochemistry Communications</i> , 2008 , 10, 480-484	5.1	59
4 ⁰⁵	Hollow Fe ₃ O ₄ microspheres as anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2012 , 75, 123-130	6.7	58

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