

Yang-Kook Sun

List of Publications by Year in Descending Order

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Version: 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Uniformly distributed reaction by 3D host-lithium composite anode for high rate capability and reversibility of Li-O ₂ batteries. <i>Chemical Engineering Journal</i> , 2022 , 427, 130914	14.7	2
672	All-Solid-State Lithium Batteries: Li ⁺ -Conducting Ionomer Binder for Dry-Processed Composite Cathodes. <i>ACS Energy Letters</i> , 2022 , 7, 1092-1100	20.1	14
671	Hierarchical O ₃ /P ₂ heterostructured cathode materials for advanced sodium-ion batteries. <i>Energy Storage Materials</i> , 2022 , 47, 515-525	19.4	9
670	Stable Solid Electrolyte Interphase for Long-Life Potassium Metal Batteries. <i>ACS Energy Letters</i> , 2022 , 7, 401-409	20.1	4
669	Ultrafine-grained Ni-rich layered cathode for advanced Li-ion batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 6616-6626	35.4	13
668	Transition metal-doped Ni-rich layered cathode materials for durable Li-ion batteries. <i>Nature Communications</i> , 2021 , 12, 6552	17.4	28
667	Quasi-compensatory effect in emerging anode-free lithium batteries. <i>EScience</i> , 2021 , 1, 3-3		13
666	Enhanced Cycling Stability of O ₃ -Type Na[Ni _{0.5} Mn _{0.5}]O ₂ Cathode through Sn Addition for Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6593-6600	3.8	2
665	Critical Role of Functional Groups Containing N, S, and O on Graphene Surface for Stable and Fast Charging Li-S Batteries. <i>Small</i> , 2021 , 17, e2007242	11	7
664	Long-Lasting Solid Electrolyte Interphase for Stable Li-Metal Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 2153-2161	20.1	14
663	Microstructure Engineered Ni-Rich Layered Cathode for Electric Vehicle Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100884	21.8	21
662	Electrolyte Chemistry in 3D Metal Oxide Nanorod Arrays Deciphers Lithium Dendrite-Free Plating/Stripping Behaviors for High-Performance Lithium Batteries. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4857-4866	6.4	11
661	Advances in Solid-State Batteries, a Virtual Issue. <i>ACS Energy Letters</i> , 2021 , 6, 2356-2358	20.1	4
660	Closely Coupled Binary Metal Sulfide Nanosheets Shielded Molybdenum Sulfide Nanorod Hierarchical Structure via Eco-Benign Surface Exfoliation Strategy towards Efficient Lithium and Sodium-ion Batteries. <i>Energy Storage Materials</i> , 2021 , 38, 344-353	19.4	8
659	Enhanced cycling stability of Sn-doped Li[Ni _{0.90} Co _{0.05} Mn _{0.05}]O ₂ via optimization of particle shape and orientation. <i>Chemical Engineering Journal</i> , 2021 , 405, 126887	14.7	14
658	Diverting Exploration of Silicon Anode into Practical Way: A Review Focused on Silicon-Graphite Composite for Lithium Ion Batteries. <i>Energy Storage Materials</i> , 2021 , 35, 550-576	19.4	69
657	Unraveling the New Role of an Ethylene Carbonate Solvation Shell in Rechargeable Metal Ion Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 69-78	20.1	41

656	Lithium-Substituted Tunnel/Spinel Heterostructured Cathode Material for High-Performance Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2008569	15.6	3
655	Microstrain Alleviation in High-Energy Ni-Rich NCMA Cathode for Long Battery Life. <i>ACS Energy Letters</i> , 2021 , 6, 216-223	20.1	33
654	WO Nanowire/Carbon Nanotube Interlayer as a Chemical Adsorption Mediator for High-Performance Lithium-Sulfur Batteries. <i>Molecules</i> , 2021 , 26,	4.8	4
653	Cation ordered Ni-rich layered cathode for ultra-long battery life. <i>Energy and Environmental Science</i> , 2021 , 14, 1573-1583	35.4	32
652	Reducing cobalt from lithium-ion batteries for the electric vehicle era. <i>Energy and Environmental Science</i> , 2021 , 14, 844-852	35.4	49
651	Electrolyte-Mediated Stabilization of High-Capacity Micro-Sized Antimony Anodes for Potassium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2005993	24	48
650	Optimized Ni-Rich NCMA Cathode for Electric Vehicle Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003767	21.8	21
649	Ambilaterality of Redox Mediators towards $1O_2$ in Li- O_2 Batteries: Trap and Quencher. <i>Advanced Functional Materials</i> , 2021 , 31, 2102442	15.6	2
648	Capacity Fading Mechanisms in Ni-Rich Single-Crystal NCM Cathodes. <i>ACS Energy Letters</i> , 2021 , 6, 2726-2734	20.4	53
647	Achieving High-Performance Li-S Batteries via Polysulfide Adjoining Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39435-39445	9.5	4
646	Multiscale Understanding of Covalently Fixed Sulfur-Polyacrylonitrile Composite as Advanced Cathode for Metal-Sulfur Batteries. <i>Advanced Science</i> , 2021 , 8, e2101123	13.6	9
645	Gifts from Nature: Bio-Inspired Materials for Rechargeable Secondary Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006019	24	8
644	Interfacial Model Deciphering High-Voltage Electrolytes for High Energy Density, High Safety, and Fast-Charging Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2102964	24	33
643	Cationic and transition metal co-substitution strategy of O_3 -type $NaCrO_2$ cathode for high-energy sodium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 41, 183-195	19.4	11
642	Ultra-stable cycling of multi-doped (Zr,B) $Li[Ni_{0.885}Co_{0.100}Al_{0.015}]O_2$ cathode. <i>Journal of Power Sources</i> , 2021 , 513, 230548	8.9	1
641	State-of-the-art anodes of potassium-ion batteries: synthesis, chemistry, and applications. <i>Chemical Science</i> , 2021 , 12, 7623-7655	9.4	9
640	High-performance Ni-rich $Li[Ni_{0.9}xCo_{0.1}Al_x]O_2$ cathodes via multi-stage microstructural tailoring from hydroxide precursor to the lithiated oxide. <i>Energy and Environmental Science</i> , 2021 , 14, 5084-5095	35.4	12
639	In Situ Oriented Mn Deficient $ZnMnO@C$ Nanoarchitecture for Durable Rechargeable Aqueous Zinc-Ion Batteries. <i>Advanced Science</i> , 2021 , 8, 2002636	13.6	32

638 Anticipated Progress in the Near- to Mid-Term Future of LIBs **2020**, 1-32

637	Co-Free Layered Cathode Materials for High Energy Density Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 1814-1824	20.1	53
636	Oxidation Stability of Organic Redox Mediators as Mobile Catalysts in Lithium-Oxygen Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 2122-2129	20.1	18
635	New Class of Ni-Rich Cathode Materials Li[Ni _x Co _y B _{1-x-y}]O ₂ for Next Lithium Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000495	21.8	57
634	Multidimensional Na ₄ V ₂ Mn _{0.9} Cu _{0.1} (PO ₄) ₃ /C cotton-candy cathode materials for high energy Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12055-12068	13	19
633	Multi-Doped (Ga,B) Li[Ni _{0.885} Co _{0.100} Al _{0.015}]O ₂ Cathode. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 100557	3.9	10
632	High-energy O ₃ -Na _{1-x} Cax[Ni _{0.5} Mn _{0.5}]O ₂ cathodes for long-life sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13776-13786	13	18
631	Perpendicularly aligned TiC-coated carbon cloth cathode for high-performance Li-O ₂ batteries. <i>Chemical Engineering Journal</i> , 2020 , 399, 125699	14.7	12
630	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
629	Density Functional Theory Investigation of Mixed Transition Metals in Olivine and Tavorite Cathode Materials for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16376-16386	9.5	10
628	Lithium-Oxygen Batteries and Related Systems: Potential, Status, and Future. <i>Chemical Reviews</i> , 2020 , 120, 6626-6683	68.1	279
627	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
626	Investigation of K-ion storage performances in a bismuth sulfide-carbon nanotube composite anode.. <i>RSC Advances</i> , 2020 , 10, 6536-6539	3.7	3
625	A highly stabilized Ni-rich NCA cathode for high-energy lithium-ion batteries. <i>Materials Today</i> , 2020 , 36, 73-82	21.8	77
624	Limited effects of a redox mediator in lithium-oxygen batteries: indecomposable by-products. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5622-5628	13	10
623	Electrolyte Engineering Enables High Stability and Capacity Alloying Anodes for Sodium and Potassium Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 766-776	20.1	91
622	An Empirical Model for the Design of Batteries with High Energy Density. <i>ACS Energy Letters</i> , 2020 , 5, 807-816	20.1	52
621	Development of Novel Cathode with Large Lithium Storage Mechanism Based on Pyrophosphate-Based Conversion Reaction for Rechargeable Lithium Batteries. <i>Small Methods</i> , 2020 , 4, 1900847	12.8	3

620	Toward the Sustainable Lithium Metal Batteries with a New Electrolyte Solvation Chemistry. <i>Advanced Energy Materials</i> , 2020 , 10, 2000567	21.8	53
619	Quasi-solid-state zinc-ion battery based on MnO_2 cathode with husk-like morphology. <i>Electrochimica Acta</i> , 2020 , 345, 136189	6.7	9
618	Engineering Sodium-Ion Solvation Structure to Stabilize Sodium Anodes: Universal Strategy for Fast-Charging and Safer Sodium-Ion Batteries. <i>Nano Letters</i> , 2020 , 20, 3247-3254	11.5	41
617	A New Type of Ni-Rich Cathode for High-Energy Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 72-72	0	
616	Microstructure-Tailored Ni-Rich NCA Cathode for Next Electric Vehicles. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 70-70	0	
615	$\text{Na}_{2.3}\text{Cu}_{1.1}\text{Mn}_2\text{O}_7$ nanoflakes as enhanced cathode materials for high-energy sodium-ion batteries achieved by a rapid pyrosynthesis approach. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 770-778 ¹³		9
614	The dominant role of Mn^{2+} additive on the electrochemical reaction in ZnMn_2O_4 cathode for aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2020 , 28, 407-417	19.4	84
613	Cobalt-Free High-Capacity Ni-Rich Layered $\text{Li}[\text{Ni}_{0.9}\text{Mn}_{0.1}]\text{O}_2$ Cathode. <i>Advanced Energy Materials</i> , 2020 , 10, 1903179	21.8	60
612	Ni-Rich Layered Cathode Materials with Electrochemo-Mechanically Compliant Microstructures for All-Solid-State Li Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903360	21.8	80
611	Nano/Microstructured Silicon-Carbon Hybrid Composite Particles Fabricated with Corn Starch Biowaste as Anode Materials for Li-Ion Batteries. <i>Nano Letters</i> , 2020 , 20, 625-635	11.5	88
610	High-Energy W-Doped $\text{Li}[\text{Ni}_{0.95}\text{Co}_{0.04}\text{Al}_{0.01}]\text{O}_2$ Cathodes for Next-Generation Electric Vehicles. <i>Energy Storage Materials</i> , 2020 , 33, 399-407	19.4	29
609	Recent Progress and Perspective of Advanced High-Energy Co-Less Ni-Rich Cathodes for Li-Ion Batteries: Yesterday, Today, and Tomorrow. <i>Advanced Energy Materials</i> , 2020 , 10, 2002027	21.8	78
608	Promising All-Solid-State Batteries for Future Electric Vehicles. <i>ACS Energy Letters</i> , 2020 , 5, 3221-3223	20.1	49
607	Role of Li-Ion Depletion on Electrode Surface: Underlying Mechanism for Electrodeposition Behavior of Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2020 , 10, 2002390	21.8	53
606	Sodium-Ion Batteries: Understanding the Capacity Fading Mechanisms of O3-Type $\text{Na}[\text{Ni}_{0.5}\text{Mn}_{0.5}]\text{O}_2$ Cathode for Sodium-Ion Batteries (Adv. Energy Mater. 37/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070156	21.8	
605	Investigation of superior sodium storage and reversible Na_2S conversion reactions in a porous $\text{NiS}_2@\text{C}$ composite using in operando X-ray diffraction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24401-24407 ³		13
604	Model-Based Design of Graphite-Compatible Electrolytes in Potassium-Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 2651-2661	20.1	49
603	Understanding the Capacity Fading Mechanisms of O3-Type $\text{Na}[\text{Ni}_{0.5}\text{Mn}_{0.5}]\text{O}_2$ Cathode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001609	21.8	22

602	Model-Based Design of Stable Electrolytes for Potassium Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 3124-3131	32	
601	Heuristic solution for achieving long-term cycle stability for Ni-rich layered cathodes at full depth of discharge. <i>Nature Energy</i> , 2020 , 5, 860-869	62.3	109
600	Tungsten Oxide/Zirconia as a Functional Polysulfide Mediator for High-Performance Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 3168-3175	20.1	11
599	Additives Engineered Nonflammable Electrolyte for Safer Potassium Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001934	15.6	37
598	Facile migration of potassium ions in a ternary P3-type K _{0.5} [Mn _{0.8} Fe _{0.1} Ni _{0.1}]O ₂ cathode in rechargeable potassium batteries. <i>Energy Storage Materials</i> , 2020 , 25, 714-723	19.4	36
597	Controllable and stable organometallic redox mediators for lithium oxygen batteries. <i>Materials Horizons</i> , 2020 , 7, 214-222	14.4	13
596	Energy Spotlight. <i>ACS Energy Letters</i> , 2019 , 4, 2763-2769	20.1	0
595	A new P2-type layered oxide cathode with superior full-cell performances for K-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21362-21370	13	33
594	A method of increasing the energy density of layered Ni-rich Li[Ni _{1-x} CoxMnx]O ₂ cathodes (x = 0.05, 0.1, 0.2). <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2694-2701	13	88
593	A dendrite- and oxygen-proof protective layer for lithium metal in lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3857-3862	13	48
592	Understanding on the structural and electrochemical performance of orthorhombic sodium manganese oxides. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 202-211	13	31
591	Quaternary Layered Ni-Rich NCMA Cathode for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 576-582	20.1	117
590	Potassium vanadate as a new cathode material for potassium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 432, 24-29	8.9	36
589	Adiponitrile (C ₆ H ₈ N ₂): A New Bi-Functional Additive for High-Performance Li-Metal Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1902496	15.6	56
588	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
587	Customizing a Li-metal battery that survives practical operating conditions for electric vehicle applications. <i>Energy and Environmental Science</i> , 2019 , 12, 2174-2184	35.4	81
586	Molecular-Scale Interfacial Model for Predicting Electrode Performance in Rechargeable Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 1584-1593	20.1	61
585	Trimethylsilyl azide (C ₃ H ₉ N ₃ Si): a highly efficient additive for tailoring fluoroethylene carbonate (FEC) based electrolytes for Li-metal batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13441-13448	13	24

584	K _{0.54} [Co _{0.5} Mn _{0.5}]O ₂ : New cathode with high power capability for potassium-ion batteries. <i>Nano Energy</i> , 2019 , 61, 284-294	17.1	77
583	Deactivation of redox mediators in lithium-oxygen batteries by singlet oxygen. <i>Nature Communications</i> , 2019 , 10, 1380	17.4	49
582	High-performance Ti-doped O ₃ -type Na[Ti _x (Ni _{0.6} Co _{0.2} Mn _{0.2}) _{1-x}]O ₂ cathodes for practical sodium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 422, 1-8	8.9	33
581	A New P2-Type Layered Oxide Cathode with Extremely High Energy Density for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803346	21.8	95
580	Triple Hierarchical Porous Carbon Spheres as Effective Cathodes for Li-O ₂ Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A455-A463	3.9	5
579	A 4 V Class Potassium Metal Battery with Extremely Low Overpotential. <i>ACS Nano</i> , 2019 , 13, 9306-9314	16.7	44
578	Mutual Conservation of Redox Mediator and Singlet Oxygen Quencher in Lithium-Oxygen Batteries. <i>ACS Catalysis</i> , 2019 , 9, 9914-9922	13.1	28
577	Degradation Mechanism of Highly Ni-Rich Li[NiCoMn]O Cathodes with > 0.9. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30936-30942	9.5	80
576	Highly wrinkled carbon tubes as an advanced anode for K-ion full batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20675-20682	13	18
575	Suppressing detrimental phase transitions via tungsten doping of LiNiO ₂ cathode for next-generation lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18580-18588	13	103
574	A single layer of Fe ₃ O ₄ @TiO ₂ submicron spheres as a high-performance electrode for lithium-ion microbatteries. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2675-2687	5.8	4
573	Li[Ni _{0.9} Co _{0.09} W _{0.01}]O ₂ : A New Type of Layered Oxide Cathode with High Cycling Stability. <i>Advanced Energy Materials</i> , 2019 , 9, 1902698	21.8	66
572	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
571	New Insight on the Role of Electrolyte Additives in Rechargeable Lithium Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 2613-2622	20.1	90
570	Nano-compact Li ₂ S/Graphene Composite Cathode for High-Energy Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 2787-2795	20.1	17
569	Layered KMnO ₄ ·1.5H ₂ O as a Cathode Material for Potassium-Ion Intercalation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43312-43319	9.5	16
568	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. <i>ACS Energy Letters</i> , 2019 , 4, 2995-3001	20.1	138
567	Verification for trihalide ions as redox mediators in Li-O ₂ batteries. <i>Energy Storage Materials</i> , 2019 , 19, 148-153	19.4	14

566	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
565	Nano/Microstructured Silicon-Graphite Composite Anode for High-Energy-Density Li-Ion Battery. <i>ACS Nano</i> , 2019 , 13, 2624-2633	16.7	159
564	Compositionally and structurally redesigned high-energy Ni-rich layered cathode for next-generation lithium batteries. <i>Materials Today</i> , 2019 , 23, 26-36	21.8	76
563	A zero fading sodium ion battery: High compatibility microspherical patronite in ether-based electrolyte. <i>Energy Storage Materials</i> , 2019 , 19, 270-280	19.4	17
562	New Insights Related to Rechargeable Lithium Batteries: Li Metal Anodes, Ni Rich LiNixCoyMnzO2 Cathodes and Beyond Them. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A5265-A5274	3.9	31
561	Carbon-Free TiO2 Microspheres as Anode Materials for Sodium Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 494-501	20.1	38
560	Shedding Light on the Oxygen Reduction Reaction Mechanism in Ether-Based Electrolyte Solutions: A Study Using Operando UV-Vis Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10860-10869	9.5	5
559	Quaternary Transition Metal Oxide Layered Framework: O3-Type Na[Ni0.32Fe0.13Co0.15Mn0.40]O2 Cathode Material for High-Performance Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13500-13507	3.8	24
558	Structural transformation and electrochemical study of layered MnO2 in rechargeable aqueous zinc-ion battery. <i>Electrochimica Acta</i> , 2018 , 276, 1-11	6.7	138
557	Sodium-Ion Batteries: Building Effective Layered Cathode Materials with Long-Term Cycling by Modifying the Surface via Sodium Phosphate. <i>Advanced Functional Materials</i> , 2018 , 28, 1705968	15.6	89
556	Aqueous rechargeable Zn-ion batteries: an imperishable and high-energy Zn2V2O7 nanowire cathode through intercalation regulation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3850-3856	13	212
555	Cation Ordering of Zr-Doped LiNiO2 Cathode for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 1808-1814	9.6	97
554	Toward High-Safety Potassium-Sulfur Batteries Using a Potassium Polysulfide Catholyte and Metal-Free Anode. <i>ACS Energy Letters</i> , 2018 , 3, 540-541	20.1	82
553	Extracting maximum capacity from Ni-rich Li[Ni0.95Co0.025Mn0.025]O2 cathodes for high-energy-density lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4126-4132	13	139
552	Bioinspired Surface Layer for the Cathode Material of High-Energy-Density Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702942	21.8	57
551	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
550	Achieving high mass loading of Na3V2(PO4)3@carbon on carbon cloth by constructing three-dimensional network between carbon fibers for ultralong cycle-life and ultrahigh rate sodium-ion batteries. <i>Nano Energy</i> , 2018 , 45, 136-147	17.1	106
549	Optimized Concentration of Redox Mediator and Surface Protection of Li Metal for Maintenance of High Energy Efficiency in Li-DB Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702258	21.8	71

548	Clarification of Solvent Effects on Discharge Products in Li-O Batteries through a Titration Method. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 526-533	9.5	14
547	Multiwalled Carbon Nanotubes Anode in Lithium-Ion Battery with LiCoO ₂ , Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ , and LiFe _{1/4} Mn _{1/2} Co _{1/4} PO ₄ Cathodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3225-3232	8.3	39
546	Revealing the Reaction Mechanism of NaO ₂ Batteries using Environmental Transmission Electron Microscopy. <i>ACS Energy Letters</i> , 2018 , 3, 393-399	20.1	26
545	Ni ₃ V ₂ O ₈ nanoparticles as an excellent anode material for high-energy lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 810, 34-40	4.1	22
544	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
543	Stabilization of Lithium-Metal Batteries Based on the in Situ Formation of a Stable Solid Electrolyte Interphase Layer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17985-17993	9.5	49
542	Pyrosynthesis of Na V (PO) ₄ @C Cathodes for Safe and Low-Cost Aqueous Hybrid Batteries. <i>ChemSusChem</i> , 2018 , 11, 2239-2247	8.3	38
541	High-Capacity Concentration Gradient Li[Ni _{0.865} Co _{0.120} Al _{0.015}]O ₂ Cathode for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703612	21.8	106
540	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
539	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
538	Low-Polarization Lithium-Oxygen Battery Using [DEME][TFSI] Ionic Liquid Electrolyte. <i>ChemSusChem</i> , 2018 , 11, 229-236	8.3	24
537	Minimizing the Electrolyte Volume in Li-Ion Batteries: A Step Forward to High Gravimetric Energy Density. <i>Advanced Energy Materials</i> , 2018 , 8, 1801560	21.8	56
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535	High performance potassium-sulfur batteries based on a sulfurized polyacrylonitrile cathode and polyacrylic acid binder. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14587-14593	13	63
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528	Recent research trends in Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11582-11605	13	130
527	Recent progress of advanced binders for Li-S batteries. <i>Journal of Power Sources</i> , 2018 , 396, 19-32	8.9	56
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138	Improvement of electrochemical properties of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ spinel material by fluorine substitution. <i>Journal of Power Sources</i> , 2006 , 157, 464-470	8.9	93
137	Synthesis and electrochemical properties of $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}]\text{O}_2$ and $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.2}]\text{O}_2$ via co-precipitation. <i>Journal of Power Sources</i> , 2006 , 159, 1328-1333	8.9	200
136	Water activities of polymeric membrane/water systems in fuel cells. <i>Journal of Power Sources</i> , 2006 , 157, 733-738	8.9	6
135	Effect of sulfur and nickel doping on morphology and electrochemical performance of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ spinel material in 3-V region. <i>Journal of Power Sources</i> , 2006 , 161, 19-26	8.9	62

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126	Thermodynamic properties of direct methanol polymer electrolyte fuel cell. <i>Journal of Power Sources</i> , 2005 , 145, 598-603	8.9	4
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21	Novel Polymer Electrolytes for Rechargeable Lithium-Ion Polymer Batteries. <i>Electrochemical and Solid-State Letters</i> , 1999 , 2, 256		5
20	Synthesis and cycling behavior of LiMn ₂ O ₄ cathode materials prepared by glycine-assisted sol-gel method for lithium secondary batteries. <i>Korean Journal of Chemical Engineering</i> , 1998 , 15, 64-70	2.8	10
19	Synthesis of spinel LiMn ₂ O ₄ cathode material prepared by an adipic acid-assisted sol-gel method for lithium secondary batteries. <i>Solid State Ionics</i> , 1998 , 109, 285-294	3.3	85
18	Effect of mixed solvent electrolytes on cycling performance of rechargeable Li/LiNi _{0.5} Co _{0.5} O ₂ cells with gel polymer electrolytes. <i>Solid State Ionics</i> , 1998 , 111, 243-252	3.3	8
17	Effect of crystallinity on the electrochemical behaviour of spinel Li _{1.03} Mn ₂ O ₄ cathode materials. <i>Solid State Ionics</i> , 1998 , 112, 237-243	3.3	28
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15	Synthesis and electrochemical characteristics of spinel phase LiMn ₂ O ₄ -based cathode materials for lithium polymer batteries. <i>Journal of Materials Chemistry</i> , 1998 , 8, 2399-2404		40
14	Synthesis of LiCo _{0.5} Ni _{0.5} O ₂ powders by a sol-gel method. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1481-1485		27
13	Synthesis of Spinel LiMn ₂ O ₄ by the Sol-gel Method for a Cathode-Active Material in Lithium Secondary Batteries. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4839-4846	3.9	65
12	Synthesis of LiNiO ₂ powders by a sol-gel method. <i>Journal of Materials Science Letters</i> , 1997 , 16, 30-32		29
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10	Synthesis of high purity 110 K phase in the Bi(Pb)-Sr-Ca-Cu-O superconductor by the sol-gel method. <i>Korean Journal of Chemical Engineering</i> , 1997 , 14, 59-63	2.8	2
9	Synthesis and electrochemical studies of spinel Li _{1.03} Mn ₂ O ₄ cathode materials prepared by a sol-gel method for lithium secondary batteries. <i>Solid State Ionics</i> , 1997 , 100, 115-125	3.3	62

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2	3D Multiwall Carbon Nanotubes (MWCNTs) for Li-Ion Battery Anode	35-41	
1	High-Energy Ni-Rich Cathode Materials for Long-Range and Long-Life Electric Vehicles. <i>Advanced Energy Materials</i> , 2200615	21.8	6