## Jun Lu

# List of Publications by Year in Descending Order

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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.

579	51,144	123	205
papers	citations	h-index	g-index
623	62,495 ext. citations	15.6	8.3
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
579	Evidence of Morphological Change in Sulfur Cathodes upon Irradiation by Synchrotron X-rays. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 577-582	20.1	1
578	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism <i>Science Advances</i> , <b>2022</b> , 8, eabm1899	14.3	9
577	Li2S Cathodes in LithiumBulfur Batteries. <i>Modern Aspects of Electrochemistry</i> , <b>2022</b> , 83-109		
576	Ultrafast Metal Electrodeposition Revealed by in-situ Optical Imaging and Theoretical Modeling towards Fast-charging Zn Battery Chemistry <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	9
575	High Nickel and No Cobalt-The Pursuit of Next-Generation Layered Oxide Cathodes ACS Applied Materials & Amp; Interfaces, 2022,	9.5	4
574	Atomistic Insights of Irreversible Li+ Intercalation in MnO2 Electrode. <i>Angewandte Chemie</i> , <b>2022</b> , 134, e202113420	3.6	1
573	Energy Spotlight. ACS Energy Letters, 2022, 7, 1125-1127	20.1	
572	Ultrafast, Durable, and High-loading Polymer Anode for Aqueous Zinc-Ion Batteries and Supercapacitors <i>Advanced Materials</i> , <b>2022</b> , e2200077	24	10
571	On the Road to Sustainable Energy Storage Technologies: Synthesis of Anodes for Na-Ion Batteries from Biowaste. <i>Batteries</i> , <b>2022</b> , 8, 28	5.7	2
570	Transferring Liquid Metal to form a Hybrid Solid Electrolyte via a Wettability-Tuning Technology for Lithium Metal Anodes <i>Advanced Materials</i> , <b>2022</b> , e2200181	24	4
569	Regulation of Surface Defect Chemistry towards Stable Ni-rich Cathodes <i>Advanced Materials</i> , <b>2022</b> , e2200744	24	11
568	Enabling high energy lithium metal batteries via single-crystal Ni-rich cathode material co-doping strategy <i>Nature Communications</i> , <b>2022</b> , 13, 2319	17.4	9
567	Theory-guided experimental design in battery materials research Science Advances, 2022, 8, eabm2422	2 14.3	9
566	Unravelling the Nature of the Intrinsic Complex Structure of Binary Phase Na-layered Oxides <i>Advanced Materials</i> , <b>2022</b> , e2202137	24	2
565	Catalytic materials for lithium-sulfur batteries: mechanisms, design strategies and future perspective. <i>Materials Today</i> , <b>2021</b> ,	21.8	14
564	Atomistic Insights of Irreversible Li Intercalation in MnO Electrode. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	1
563	Rational design of mechanically robust Ni-rich cathode materials via concentration gradient strategy. <i>Nature Communications</i> , <b>2021</b> , 12, 6024	17.4	21

## (2021-2021)

562	Prelithiated Li-Enriched Gradient Interphase toward Practical High-Energy NMCBilicon Full Cell. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 320-328	20.1	16
561	Rejuvenating dead lithium supply in lithium metal anodes by iodine redox. <i>Nature Energy</i> , <b>2021</b> , 6, 378-3	3 <b>8</b> 7.3	108
560	Whole-Voltage-Range Oxygen Redox in P2-Layered Cathode Materials for Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008194	24	39
559	Process Engineering to Increase the Layered Phase Concentration in the Immediate Products of Flame Spray Pyrolysis. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2021</b> , 13, 26915-26923	9.5	6
558	Designing inorganic electrolytes for solid-state Li-ion batteries: A perspective of LGPS and garnet. <i>Materials Today</i> , <b>2021</b> , 50, 418-418	21.8	15
557	A universal method to fabricating porous carbon for Li-O2 battery. <i>Nano Energy</i> , <b>2021</b> , 82, 105782	17.1	14
556	Challenges and future perspectives on sodium and potassium ion batteries for grid-scale energy storage. <i>Materials Today</i> , <b>2021</b> , 50, 400-400	21.8	39
555	Understanding the Effect of Solid Electrocatalysts on Achieving Highly Energy-Efficient Lithium Dxygen Batteries. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2100045	1.6	O
554	Nanotechnology for Sulfur Cathodes. ACS Nano, 2021, 15, 8087-8094	16.7	8
553	Mesocrystallizing Nanograins for Enhanced Li+ Storage. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100503	21.8	3
552	Chemical Heterointerface Engineering on Hybrid Electrode Materials for Electrochemical Energy Storage <i>Small Methods</i> , <b>2021</b> , 5, e2100444	12.8	21
551	Structural Aspects of P2-Type Na0.67Mn0.6Ni0.2Li0.2O2 (MNL) Stabilization by Lithium Defects as a Cathode Material for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102939	15.6	7
550	Burning magnesium in carbon dioxide for highly effective phosphate removal <b>2021</b> , 3, 330-337		1
549	Understanding the Gap between Academic Research and Industrial Requirements in Rechargeable Zinc-Ion Batteries. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 60-71	5.6	9
548	Revealing the Atomic Structures of Exposed Lateral Surfaces for Polymorphic Manganese Dioxide Nanowires. <i>Small Structures</i> , <b>2021</b> , 2, 2000091	8.7	7
547	In Situ Construction of Uniform and Robust Cathode <b>E</b> lectrolyte Interphase for Li-Rich Layered Oxides. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009192	15.6	25
546	Counter-Intuitive Structural Instability Aroused by Transition Metal Migration in Polyanionic Sodium Ion Host. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003256	21.8	14
545	Biphasic P2/O3-NaLiMnFeO: a structural investigation. <i>Dalton Transactions</i> , <b>2021</b> , 50, 1357-1365	4.3	2

544	Visualizing Lithium Dendrite Formation within Solid-State Electrolytes. ACS Energy Letters, 2021, 6, 451	<b>-458</b> 1	31
543	Localized Polysulfide Injector for the Activation of Bulk Lithium Sulfide. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2185-2189	16.4	14
542	Atomic/molecular layer deposition for energy storage and conversion. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 3889-3956	58.5	39
541	1000 Wh L lithium-ion batteries enabled by crosslink-shrunk tough carbon encapsulated silicon microparticle anodes. <i>National Science Review</i> , <b>2021</b> , 8, nwab012	10.8	16
540	Enabling stable and high-rate cycling of a Ni-rich layered oxide cathode for lithium-ion batteries by modification with an artificial Li+-conducting cathode-electrolyte interphase. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11623-11631	13	5
539	Understanding Co roles towards developing Co-free Ni-rich cathodes for rechargeable batteries. <i>Nature Energy</i> , <b>2021</b> , 6, 277-286	62.3	64
538	Correlating Catalyst Design and Discharged Product to Reduce Overpotential in Li-CO Batteries. <i>Small</i> , <b>2021</b> , 17, e2007760	11	8
537	Improved Sodiation Additive and Its Nuances in the Performance Enhancement of Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Acs Applied &amp; A</i>	9.5	7
536	3d-Orbital Occupancy Regulated Ir-Co Atomic Pair Toward Superior Bifunctional Oxygen Electrocatalysis. <i>ACS Catalysis</i> , <b>2021</b> , 11, 8837-8846	13.1	26
535	Energy Spotlight. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2983-2984	20.1	
535 534	Energy Spotlight. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2983-2984  A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 5746	20.1	17
	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. <i>Nature</i>		17
534	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 5746  Reaction inhomogeneity coupling with metal rearrangement triggers electrochemical degradation	17.4	,
534 533	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 5746  Reaction inhomogeneity coupling with metal rearrangement triggers electrochemical degradation in lithium-rich layered cathode. <i>Nature Communications</i> , <b>2021</b> , 12, 5370  Surface lattice engineering for fine-tuned spatial configuration of nanocrystals. <i>Nature</i>	17.4 17.4	10
<ul><li>534</li><li>533</li><li>532</li></ul>	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 5746  Reaction inhomogeneity coupling with metal rearrangement triggers electrochemical degradation in lithium-rich layered cathode. <i>Nature Communications</i> , <b>2021</b> , 12, 5370  Surface lattice engineering for fine-tuned spatial configuration of nanocrystals. <i>Nature Communications</i> , <b>2021</b> , 12, 5661  (S)TEM-EELS as an advanced characterization technique for lithium-ion batteries. <i>Materials</i>	17.4 17.4 17.4 7.8	10
<ul><li>534</li><li>533</li><li>532</li><li>531</li></ul>	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 5746  Reaction inhomogeneity coupling with metal rearrangement triggers electrochemical degradation in lithium-rich layered cathode. <i>Nature Communications</i> , <b>2021</b> , 12, 5370  Surface lattice engineering for fine-tuned spatial configuration of nanocrystals. <i>Nature Communications</i> , <b>2021</b> , 12, 5661  (S)TEM-EELS as an advanced characterization technique for lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 5186-5193	17.4 17.4 17.4 7.8	10 4
<ul><li>534</li><li>533</li><li>532</li><li>531</li><li>530</li></ul>	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 5746  Reaction inhomogeneity coupling with metal rearrangement triggers electrochemical degradation in lithium-rich layered cathode. <i>Nature Communications</i> , <b>2021</b> , 12, 5370  Surface lattice engineering for fine-tuned spatial configuration of nanocrystals. <i>Nature Communications</i> , <b>2021</b> , 12, 5661  (S)TEM-EELS as an advanced characterization technique for lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 5186-5193  Exploring new battery knowledge by advanced characterizing technologies. <i>Exploration</i> , <b>2021</b> , 1, 20210  In Situ Formation of Polycyclic Aromatic Hydrocarbons as an Artificial Hybrid Layer for Lithium	17.4 17.4 17.8 1130	10 4 5

## (2020-2020)

526	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. <i>Nature Communications</i> , <b>2020</b> , 11, 6373	17.4	20
525	Titelbild: Cation Additive Enabled Rechargeable LiOH-Based Lithium <b>©</b> xygen Batteries (Angew. Chem. 51/2020). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 22993-22993	3.6	
524	Beyond Volume Variation: Anisotropic and Protrusive Lithiation in Bismuth Nanowire. <i>ACS Nano</i> , <b>2020</b> , 14, 15669-15677	16.7	7
523	Fiber-Shaped Fluidic Nanogenerator with High Power Density for Self-Powered Integrated Electronics. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100175	6.1	5
522	Cation Additive Enabled Rechargeable LiOH-Based Lithium Dxygen Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 23178-23182	3.6	4
521	From Sodium-Oxygen to Sodium-Air Battery: Enabled by Sodium Peroxide Dihydrate. <i>Nano Letters</i> , <b>2020</b> , 20, 4681-4686	11.5	11
520	Theoretical Simulation and Modeling of Three-Dimensional Batteries. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100078	6.1	26
519	A Lithium Metal Anode Surviving Battery Cycling Above 200 LC. Advanced Materials, <b>2020</b> , 32, e2000952	2 24	18
518	Rational Design of a NiN Electrocatalyst to Accelerate Polysulfide Conversion in Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2020</b> , 14, 6673-6682	16.7	103
517	Polyolefin-Based Janus Separator for Rechargeable Sodium Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16868-16877	3.6	3
516	Mesoporous PdAg Nanospheres for Stable Electrochemical CO Reduction to Formate. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000992	24	83
515	Potassium-Ion Batteries: Surface Amorphization of Vanadium Dioxide (B) for K-Ion Battery (Adv. Energy Mater. 23/2020). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070103	21.8	10
514	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. <i>Nature Communications</i> , <b>2020</b> , 11, 3050	17.4	97
513	Activating Li2S as the Lithium-Containing Cathode in LithiumBulfur Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2234-2245	20.1	59
512	A High-Rate Aqueous Proton Battery Delivering Power Below 🛭 8 🕮 via an Unfrozen Phosphoric Acid. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000968	21.8	64
511	Three-Dimensional Microbatteries beyond Lithium Ion. <i>Matter</i> , <b>2020</b> , 2, 1366-1376	12.7	54
510	Review <b>P</b> olymer Electrolytes for Sodium Batteries. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 070534	3.9	45
509	Rooting binder-free tin nanoarrays into copper substrate via tin-copper alloying for robust energy storage. <i>Nature Communications</i> , <b>2020</b> , 11, 1212	17.4	33

508	Toward Highly Selective Electrochemical CO Reduction using Metal-Free Heteroatom-Doped Carbon. <i>Advanced Science</i> , <b>2020</b> , 7, 2001002	13.6	21
507	An Iron-Decorated Carbon Aerogel for Rechargeable Flow and Flexible Zn-Air Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002292	24	91
506	Oxygen-Based Anion Redox for Lithium Batteries. <i>Accounts of Chemical Research</i> , <b>2020</b> , 53, 1436-1444	24.3	12
505	Consolidating Lithiothermic-Ready Transition Metals for Li S-Based Cathodes. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002403	24	34
504	Durian-Inspired Design of Bismuth-Antimony Alloy Arrays for Robust Sodium Storage. <i>ACS Nano</i> , <b>2020</b> , 14, 9117-9124	16.7	41
503	Design strategies for nonaqueous multivalent-ion and monovalent-ion battery anodes. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 276-294	73-3	151
502	Optimization of oxygen electrode combined with soluble catalyst to enhance the performance of lithiumBxygen battery. <i>Energy Storage Materials</i> , <b>2020</b> , 28, 73-81	19.4	8
501	Solution Blowing Synthesis of Li-Conductive Ceramic Nanofibers. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2020</b> , 12, 16200-16208	9.5	12
500	Cationic and anionic redox in lithium-ion based batteries. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 1688-1705	5 58.5	84
499	Cobalt in lithium-ion batteries. <i>Science</i> , <b>2020</b> , 367, 979-980	33.3	132
499 498	Cobalt in lithium-ion batteries. <i>Science</i> , <b>2020</b> , 367, 979-980  High-Performance, Long-Life, Rechargeable Li-CO Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907436	33.3	132 71
	High-Performance, Long-Life, Rechargeable Li-CO Batteries based on a 3D Holey Graphene		
498	High-Performance, Long-Life, Rechargeable Li-CO Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907436  ZnO Nanoparticles Photosensitization Using Ruthenium(II)-polypyridyl Isomeric Complexes.	24	71
498 497	High-Performance, Long-Life, Rechargeable Li-CO Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907436  ZnO Nanoparticles Photosensitization Using Ruthenium(II)-polypyridyl Isomeric Complexes. <i>ChemistrySelect</i> , <b>2020</b> , 5, 2528-2534  Accommodation of Silicon in an Interconnected Copper Network for Robust Li-Ion Storage.	24	71
498 497 496	High-Performance, Long-Life, Rechargeable Li-CO Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907436  ZnO Nanoparticles Photosensitization Using Ruthenium(II)-polypyridyl Isomeric Complexes. <i>ChemistrySelect</i> , <b>2020</b> , 5, 2528-2534  Accommodation of Silicon in an Interconnected Copper Network for Robust Li-Ion Storage. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910249  Highly Homogeneous Sodium Superoxide Growth in NaD2 Batteries Enabled by a Hybrid	24 1.8 15.6	71 0
498 497 496 495	High-Performance, Long-Life, Rechargeable Li-CO Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907436  ZnO Nanoparticles Photosensitization Using Ruthenium(II)-polypyridyl Isomeric Complexes. <i>ChemistrySelect</i> , <b>2020</b> , 5, 2528-2534  Accommodation of Silicon in an Interconnected Copper Network for Robust Li-Ion Storage. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910249  Highly Homogeneous Sodium Superoxide Growth in Na©2 Batteries Enabled by a Hybrid Electrolyte. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 903-909  Strain-Modulated Platinum-Palladium Nanowires for Oxygen Reduction Reaction. <i>Nano Letters</i> ,	24 1.8 15.6 20.1	71 0 17 8
498 497 496 495 494	High-Performance, Long-Life, Rechargeable Li-CO Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907436  ZnO Nanoparticles Photosensitization Using Ruthenium(II)-polypyridyl Isomeric Complexes. <i>ChemistrySelect</i> , <b>2020</b> , 5, 2528-2534  Accommodation of Silicon in an Interconnected Copper Network for Robust Li-Ion Storage. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910249  Highly Homogeneous Sodium Superoxide Growth in Nat 2 Batteries Enabled by a Hybrid Electrolyte. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 903-909  Strain-Modulated Platinum-Palladium Nanowires for Oxygen Reduction Reaction. <i>Nano Letters</i> , <b>2020</b> , 20, 2416-2422  Fast-Charging and Ultrahigh-Capacity Lithium Metal Anode Enabled by Surface Alloying. <i>Advanced</i>	24 1.8 15.6 20.1	71 0 17 8 36 47

## (2020-2020)

490	An Extremely Fast Charging Li3V2(PO4)3 Cathode at a 4.8 V Cutoff Voltage for Li-Ion Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1763-1770	20.1	34
489	Electrolytes and Interphases in Sodium-Based Rechargeable Batteries: Recent Advances and Perspectives. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000093	21.8	107
488	Enhancing Oxygen Reduction Activity of Pt-based Electrocatalysts: From Theoretical Mechanisms to Practical Methods. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 18490-18504	3.6	5
487	Enhancing Oxygen Reduction Activity of Pt-based Electrocatalysts: From Theoretical Mechanisms to Practical Methods. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 18334-18348	16.4	73
486	Designing a hybrid electrode toward high energy density with a staged Li and PF deintercalation/intercalation mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 2815-2823	11.5	35
485	Synthesis of high-entropy alloy nanoparticles on supports by the fast moving bed pyrolysis. <i>Nature Communications</i> , <b>2020</b> , 11, 2016	17.4	61
484	Potassium Prussian blue-coated Li-rich cathode with enhanced lithium ion storage property. <i>Nano Energy</i> , <b>2020</b> , 75, 104942	17.1	15
483	New Concepts in Electrolytes. <i>Chemical Reviews</i> , <b>2020</b> , 120, 6783-6819	68.1	267
482	Switchable encapsulation of polysulfides in the transition between sulfur and lithium sulfide. <i>Nature Communications</i> , <b>2020</b> , 11, 845	17.4	51
481	Flexible metalgas batteries: a potential option for next-generation power accessories for wearable electronics. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1933-1970	35.4	67
480	Relating Catalysis between Fuel Cell and Metal-Air Batteries. <i>Matter</i> , <b>2020</b> , 2, 32-49	12.7	61
479	The importance of anode protection towards lithium oxygen batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3563-3573	13	39
478	Precision AABB-type cyclocopolymers via alternating cyclocopolymerization of disiloxane-tethered divinyl monomers. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 1171-1176	4.9	1
477	An Overview of Engineered Graphene-Based Cathodes: Boosting Oxygen Reduction and Evolution Reactions in Lithium- and Sodium-Oxygen Batteries. <i>ChemSusChem</i> , <b>2020</b> , 13, 1203-1225	8.3	8
476	Iron-Doped Sodium-Vanadium Fluorophosphates: NaVOFe(PO)F (Inorganic Chemistry, <b>2020</b> , 59, 854-86	<b>62</b> 5.1	8
475	A Triphasic Bifunctional Oxygen Electrocatalyst with Tunable and Synergetic Interfacial Structure for Rechargeable Zn-Air Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903003	21.8	42
474	Crystal-Growth-Dominated Fabrication of Metal®rganic Frameworks with Orderly Distributed Hierarchical Porosity. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 2478-2485	3.6	1
473	Crystal-Growth-Dominated Fabrication of Metal-Organic Frameworks with Orderly Distributed Hierarchical Porosity. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2457-2464	16.4	27

472	Reversible (De)Intercalation of Hydrated Zn2+ in Mg2+-Stabilized V2O5 Nanobelts with High Areal Capacity. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002293	21.8	36
471	Polycation ionic liquid tailored PEO-based solid polymer electrolytes for high temperature lithium metal batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 33, 173-180	19.4	26
470	Functionalized separator for next-generation batteries. <i>Materials Today</i> , <b>2020</b> , 41, 143-155	21.8	27
469	FeP-decorated N,P Codoped Carbon Synthesized via Direct Biological Recycling for Endurable Sulfur Encapsulation. <i>ACS Central Science</i> , <b>2020</b> , 6, 1827-1834	16.8	13
468	Na-Ion Batteries Approaching Old and New Challenges. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002055	21.8	71
467	Cation Additive Enabled Rechargeable LiOH-Based Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22978-22982	16.4	14
466	Revitalising sodiumBulfur batteries for non-high-temperature operation: a crucial review. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3848-3879	35.4	70
465	Lithium Metal Anodes: A Lithium Metal Anode Surviving Battery Cycling Above 200 LC (Adv. Mater. 29/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070218	24	2
464	Hydrous Nickel-Iron Turnbull's Blue as a High-Rate and Low-Temperature Proton Electrode. <i>ACS Applied Materials &amp; Discourse Material</i>	9.5	24
463	Bipolar Electrodes for Next-Generation Rechargeable Batteries. <i>Advanced Science</i> , <b>2020</b> , 7, 2001207	13.6	20
462	Fluorinated co-solvent promises Li-S batteries under lean-electrolyte conditions. <i>Materials Today</i> , <b>2020</b> , 40, 63-71	21.8	30
461	Tailoring conductive networks within hollow carbon nanospheres to host phosphorus for advanced sodium ion batteries. <i>Nano Energy</i> , <b>2020</b> , 70, 104569	17.1	18
460	Developing high safety Li-metal anodes for future high-energy Li-metal batteries: strategies and perspectives. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 5407-5445	58.5	121
459	Unraveling the Nature of Excellent Potassium Storage in Small-Molecule Se@Peapod-Like N-Doped Carbon Nanofibers. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003879	24	47
458	Efficient Direct Recycling of Lithium-Ion Battery Cathodes by Targeted Healing. <i>Joule</i> , <b>2020</b> , 4, 2609-26	<b>26</b> 7.8	62
457	Revealing nanoscale mineralization pathways of hydroxyapatite using in situ liquid cell transmission electron microscopy. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	24
456	Analysis of the Stable Interphase Responsible for the Excellent Electrochemical Performance of Graphite Electrodes in Sodium-Ion Batteries. <i>Small</i> , <b>2020</b> , 16, e2003268	11	37
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453	Zinc-Air Batteries: An Iron-Decorated Carbon Aerogel for Rechargeable Flow and Flexible ZnAir Batteries (Adv. Mater. 32/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070241	24	
452	Rooting MnO2 into protonated g-C3N4 by intermolecular hydrogen bonding for endurable supercapacitance. <i>Nano Energy</i> , <b>2020</b> , 77, 105153	17.1	15
451	Electrochemical reduction of nitrate to ammonia via direct eight-electron transfer using a copperfholecular solid catalyst. <i>Nature Energy</i> , <b>2020</b> , 5, 605-613	62.3	220
450	A Non-aqueous H PO Electrolyte Enables Stable Cycling of Proton Electrodes. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22007-22011	16.4	13
449	A disordered rock salt anode for fast-charging lithium-ion batteries. <i>Nature</i> , <b>2020</b> , 585, 63-67	50.4	137
448	Singlet oxygen formation in Na O2 battery cathodes catalyzed by ammonium Brūsted acid. Journal of Electroanalytical Chemistry, <b>2020</b> , 872, 114265	4.1	7
447	A Non-aqueous H3PO4 Electrolyte Enables Stable Cycling of Proton Electrodes. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 22191-22195	3.6	7
446	Interfaces in rechargeable magnesium batteries. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 1467-1475	10.8	12
445	A Co- and Ni-Free P2/O3 Biphasic Lithium Stabilized Layered Oxide for Sodium-Ion Batteries and its Cycling Behavior. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003364	15.6	31
444	Lithiophilic 3D Porous CuZn Current Collector for Stable Lithium Metal Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 180-186	20.1	91
443	Heterojunction Architecture of N-Doped WO3 Nanobundles with Ce2S3 Nanodots Hybridized on a Carbon Textile Enables a Highly Efficient Flexible Photocatalyst. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903490	15.6	140
442	Litto 2 Batteries: Bamboo-Like Nitrogen-Doped Carbon Nanotube Forests as Durable Metal-Free Catalysts for Self-Powered Flexible Litto 2 Batteries (Adv. Mater. 39/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970279	24	13
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440	Self-Destruction of Cancer Induced by Ag S Amorphous Nanodots. <i>Small</i> , <b>2019</b> , 15, e1902945	11	6
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438	Graphene as Vehicle for Ultrafast Lithium Ion Capacitor Development Based on Recycled Olive Pit Derived Carbons. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A2840-A2848	3.9	4
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435	Cross-linked beta alumina nanowires with compact gel polymer electrolyte coating for ultra-stable sodium metal battery. <i>Nature Communications</i> , <b>2019</b> , 10, 4244	17.4	128
434	Amorphous TiCu-Based Additives for Improving Hydrogen Storage Properties of Magnesium Hydride. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2019</b> , 11, 38868-38879	9.5	24
433	Energy Selects. ACS Energy Letters, 2019, 4, 2569-2570	20.1	
432	Diffusion-free Grotthuss topochemistry for high-rate and long-life proton batteries. <i>Nature Energy</i> , <b>2019</b> , 4, 123-130	62.3	225
431	Trifunctional Electrode Additive for High Active Material Content and Volumetric Lithium-Ion Electrode Densities. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803390	21.8	20
430	Metal-organic framework-derived Nickel Cobalt oxysulfide nanocages as trifunctional electrocatalysts for high efficiency power to hydrogen. <i>Nano Energy</i> , <b>2019</b> , 58, 680-686	17.1	50
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412	Oxygen Release Degradation in Li-Ion Battery Cathode Materials: Mechanisms and Mitigating Approaches. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900551	21.8	145
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409	In Situ Engineering of Intracellular Hemoglobin for Implantable High-Performance Biofuel Cells. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6663-6668	16.4	15
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400	In Situ Engineering of Intracellular Hemoglobin for Implantable High-Performance Biofuel Cells. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6735-6740	3.6	5
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396	Simultaneously Dual Modification of Ni-Rich Layered Oxide Cathode for High-Energy Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808825	15.6	287
395	Interlayer Material Selection for Lithium-Sulfur Batteries. <i>Joule</i> , <b>2019</b> , 3, 361-386	27.8	246
394	An Aqueous Dual-Ion Battery Cathode of Mn3O4 via Reversible Insertion of Nitrate. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 5340-5345	3.6	5
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391 390	BeeingIthe Weak Bonding. <i>Matter</i> , <b>2019</b> , 1, 304-305  High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 851-857	12.7 28.7	159
		28.7	159
390	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 851-857	28.7	
390	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 851-857  Freestanding Polymer Crystalline Layers of Subnanometer Order. <i>Macromolecules</i> , <b>2019</b> , 52, 6018-6024  If op-Down Li Deposition Pathway Enabled by an Asymmetric Design for Li Composite Electrode.	28.7	3 26
39° 389 388	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 851-857  Freestanding Polymer Crystalline Layers of Subnanometer Order. <i>Macromolecules</i> , <b>2019</b> , 52, 6018-6024  If op-Down[Li Deposition Pathway Enabled by an Asymmetric Design for Li Composite Electrode. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901491  Manipulation of an ionic and electronic conductive interface for highly-stable high-voltage	28.7	3 26 25
39° 389 388 387	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 851-857  Freestanding Polymer Crystalline Layers of Subnanometer Order. <i>Macromolecules</i> , <b>2019</b> , 52, 6018-6024  Illiam Deposition Pathway Enabled by an Asymmetric Design for Li Composite Electrode. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901491  Manipulation of an ionic and electronic conductive interface for highly-stable high-voltage cathodes. <i>Nano Energy</i> , <b>2019</b> , 65, 103988  Reversible intercalation of methyl viologen as a dicationic charge carrier in aqueous batteries.	28.7 5.5 21.8	3 26 25
390 389 388 387 386	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 851-857  Freestanding Polymer Crystalline Layers of Subnanometer Order. <i>Macromolecules</i> , <b>2019</b> , 52, 6018-6024  Illiang Downl Deposition Pathway Enabled by an Asymmetric Design for Li Composite Electrode. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901491  Manipulation of an ionic and electronic conductive interface for highly-stable high-voltage cathodes. <i>Nano Energy</i> , <b>2019</b> , 65, 103988  Reversible intercalation of methyl viologen as a dicationic charge carrier in aqueous batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 3227  Controlling the Three-Phase Boundary in Na-Oxygen Batteries: The Synergy of Carbon Nanofibers	28.7 5.5 21.8 17.1	3 26 25 25

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381	Tuning LiO Formation Routes by Facet Engineering of MnO Cathode Catalysts. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 12832-12838	16.4	62
380	Selective Growth of a Discontinuous Subnanometer Pd Film on Carbon Defects for LiD2 Batteries. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2782-2786	20.1	28
379	Correlation between manganese dissolution and dynamic phase stability in spinel-based lithium-ion battery. <i>Nature Communications</i> , <b>2019</b> , 10, 4721	17.4	91
378	Dendrite-Free Flexible Fiber-Shaped Zn Battery with Long Cycle Life in Water and Air. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901434	21.8	54
377	ZnS coating of cathode facilitates lean-electrolyte Li-S batteries <b>2019</b> , 1, 165-172		66
376	Demanding energy from carbon <b>2019</b> , 1, 8-12		97
375	Directed Self-Assembly of MOF-Derived Nanoparticles toward Hierarchical Structures for Enhanced Catalytic Activity in CO Oxidation. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901754	21.8	12
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372	Boosting Cell Performance of LiNi Co Al O via Surface Structure Design. <i>Small</i> , <b>2019</b> , 15, e1904854	11	77
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370	Bridging the academic and industrial metrics for next-generation practical batteries. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 200-207	28.7	255
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368	Automotive Li-Ion Batteries: Current Status and Future Perspectives. <i>Electrochemical Energy Reviews</i> , <b>2019</b> , 2, 1-28	29.3	396
367	Fundamental Understanding of Water-Induced Mechanisms in Li-O Batteries: Recent Developments and Perspectives. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805602	24	31
366	Interweaving 3D Network Binder for High-Areal-Capacity Si Anode through Combined Hard and Soft Polymers. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1802645	21.8	112
365	Enhanced lithium storage capability of FeF3D.33H2O single crystal with active insertion site exposed. <i>Nano Energy</i> , <b>2019</b> , 56, 884-892	17.1	28

364	In situ quantification of interphasial chemistry in Li-ion battery. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 50-56	28.7	235
363	The Absence and Importance of Operando Techniques for Metal-Free Catalysts. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805609	24	18
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357	Heteroatom-Doped Porous Carbon Materials with Unprecedented High Volumetric Capacitive Performance. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2419-2423	3.6	17
356	Hard Carbon as Sodium-Ion Battery Anodes: Progress and Challenges. <i>ChemSusChem</i> , <b>2019</b> , 12, 133-144	1 8.3	152
355	Novel Lithium-Ion Capacitor Based on TiSb2 as Negative Electrode: The Role of Mass Ratio towards High Energy-to-Power Densities and Long Cyclability. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 153-159	5.6	10
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348	Encapsulating Various Sulfur Allotropes within Graphene Nanocages for Long-Lasting Lithium Storage. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706443	15.6	54
347	High-Performance Anode Materials for Rechargeable Lithium-Ion Batteries. <i>Electrochemical Energy Reviews</i> , <b>2018</b> , 1, 35-53	29.3	334

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344	Revisiting the Role of Polysulfides in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705590	24	291
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342	Compact 3D Copper with Uniform Porous Structure Derived by Electrochemical Dealloying as Dendrite-Free Lithium Metal Anode Current Collector. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800266	21.8	226
341	Batteries and fuel cells for emerging electric vehicle markets. <i>Nature Energy</i> , <b>2018</b> , 3, 279-289	62.3	1176
340	Identification and Implications of Lithium Superoxide in LiD2 Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1105-1109	20.1	30
339	Effect of Componential Proportion in Bimetallic Electrocatalysts on the Aprotic Lithium-Oxygen Battery Performance. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703230	21.8	21
338	Chemisorption of polysulfides through redox reactions with organic molecules for lithium-sulfur batteries. <i>Nature Communications</i> , <b>2018</b> , 9, 705	17.4	159
337	Stabilization of a High-Capacity and High-Power Nickel-Based Cathode for Li-Ion Batteries. <i>CheM</i> , <b>2018</b> , 4, 690-704	16.2	85
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334	Atomic Layer Co O Nanosheets: The Key to Knittable Zn-Air Batteries. Small, 2018, 14, e1702987	11	51
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328	Electrochemical Lithium Doping Induced Property Changes In Halide Perovskite CsPbBr3 Crystal. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 264-269	20.1	44
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326	Boosting Sodium Storage in TiO Nanotube Arrays through Surface Phosphorylation. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704337	24	168
325	Synchrotron-Based X-ray Absorption Fine Structures, X-ray Diffraction, and X-ray Microscopy Techniques Applied in the Study of Lithium Secondary Batteries. <i>Small Methods</i> , <b>2018</b> , 2, 1700341	12.8	44
324	Operando liquid cell electron microscopy of discharge and charge kinetics in lithium-oxygen batteries. <i>Nano Energy</i> , <b>2018</b> , 49, 338-345	17.1	47
323	Site-Selective Catalysis of a Multifunctional Linear Molecule: The Steric Hindrance of Metal-Organic Framework Channels. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800643	24	42
322	Cations controlled growth of EMnO2 crystals with tunable facets for electrochemical energy storage. <i>Nano Energy</i> , <b>2018</b> , 48, 301-311	17.1	32
321	From Charge Storage Mechanism to Performance: A Roadmap toward High Specific Energy Sodium-Ion Batteries through Carbon Anode Optimization. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 170326	8 <sup>21.8</sup>	244
320	Dense Graphene Monolith for High Volumetric Energy Density Liß Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703438	21.8	78
319	Energy-driven surface evolution in beta-MnO2 structures. <i>Nano Research</i> , <b>2018</b> , 11, 206-215	10	9
318	Evolution of redox couples in Li- and Mn-rich cathode materials and mitigation of voltage fade by reducing oxygen release. <i>Nature Energy</i> , <b>2018</b> , 3, 690-698	62.3	435
317	Designing MOFs-Derived FeS@Carbon Composites for High-Rate Sodium Ion Storage with Capacitive Contributions. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 33097-33104	9.5	94
316	Li S- or S-Based Lithium-Ion Batteries. Advanced Materials, 2018, 30, e1801190	24	39
315	Expanding Interlayer Spacing of Hard Carbon by Natural K Doping to Boost Na-Ion Storage. <i>ACS Applied Materials &amp; Doping Land </i>	9.5	64
314	Strong Graphene 3D Assemblies with High Elastic Recovery and Hardness. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707424	24	18
313	Solid electrolytes and interfaces in all-solid-state sodium batteries: Progress and perspective. <i>Nano Energy</i> , <b>2018</b> , 52, 279-291	17.1	132
312	In situ study of nucleation and growth dynamics of Au nanoparticles on MoS nanoflakes. <i>Nanoscale</i> , <b>2018</b> , 10, 15809-15818	7.7	28
311	Elevated-Temperature 3D Printing of Hybrid Solid-State Electrolyte for Li-Ion Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800615	24	102

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308	A Brief Review of Metallothermic Reduction Reactions for Materials Preparation. <i>Small Methods</i> , <b>2018</b> , 2, 1800062	12.8	23
307	Tunnel Intergrowth Structures in Manganese Dioxide and Their Influence on Ion Storage. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1500-1501	0.5	
306	Seeding Iron Trifluoride Nanoparticles on Reduced Graphite Oxide for Lithium-Ion Batteries with Enhanced Loading and Stability. <i>ACS Applied Materials &amp; Discourse (Materials &amp; Discours)</i> 10, 29505-29510	9.5	11
305	Electrode Materials for Sodium-Ion Batteries: Considerations on Crystal Structures and Sodium Storage Mechanisms. <i>Electrochemical Energy Reviews</i> , <b>2018</b> , 1, 200-237	29.3	130
304	30 Years of Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800561	24	1694
303	On the P2-NaCo(MnNi)yO Cathode Materials for Sodium-Ion Batteries: Synthesis, Electrochemical Performance, and Redox Processes Occurring during the Electrochemical Cycling. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 488-501	9.5	24
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301	Dissolution, migration, and deposition of transition metal ions in Li-ion batteries exemplified by Mn-based cathodes & critical review. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 243-257	35.4	364
300	Textile Inspired Lithium-Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704907	24	63
299	Short Hydrogen Bonds on Reconstructed Nanocrystal Surface Enhance Oxygen Evolution Activity. <i>ACS Catalysis</i> , <b>2018</b> , 8, 466-473	13.1	16
298	Two-Dimensional Unilamellar Cation-Deficient Metal Oxide Nanosheet Superlattices for High-Rate Sodium Ion Energy Storage. <i>ACS Nano</i> , <b>2018</b> , 12, 12337-12346	16.7	83
297	Protic and Aprotic Ionic Liquids in Combination with Hard Carbon for Lithium-Ion and Sodium-Ion Batteries. <i>Batteries and Supercaps</i> , <b>2018</b> , 1, 203-203	5.6	
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293	The Recycling of Spent Lithium-Ion Batteries: a Review of Current Processes and Technologies. <i>Electrochemical Energy Reviews</i> , <b>2018</b> , 1, 461-482	29.3	131

292	Scalable Room-Temperature Synthesis of Multi-shelled Na3(VOPO4)2F Microsphere Cathodes. <i>Joule</i> , <b>2018</b> , 2, 2348-2363	27.8	80
291	Hybrid Li-Ion and Li-O2 Battery Enabled by Oxyhalogen-Sulfur Electrochemistry. <i>Joule</i> , <b>2018</b> , 2, 2381-23	<b>92</b> 7.8	10
<b>29</b> 0	A room-temperature sodium-sulfur battery with high capacity and stable cycling performance. <i>Nature Communications</i> , <b>2018</b> , 9, 3870	17.4	247
289	Construction of Hierarchically Porous Nanoparticles@Metal-Organic Frameworks Composites by Inherent Defects for the Enhancement of Catalytic Efficiency. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803263	24	68
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287	Nitrogen and sulfur co-doped porous carbon sheets for energy storage and pH-universal oxygen reduction reaction. <i>Nano Energy</i> , <b>2018</b> , 54, 192-199	17.1	59
286	Selective CO2 Reduction on 2D Mesoporous Bi Nanosheets. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 180153	<b>6</b> 1.8	168
285	LiAir Batteries: Discharge Products <b>2018</b> , 41-63		
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282	Reaction: Freezing Electrochemical Interfaces for Robustness in Electron Microscopy. <i>CheM</i> , <b>2018</b> , 4, 2253-2254	16.2	5
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280	Investigation of the Effect of Graphene-encapsulation on the O2 Release Phenomenon from LixCoO2, Studied by In-situ Heating STEM/EELS. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1626-1627	0.5	
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278	Fundamental Understanding and Material Challenges in Rechargeable Nonaqueous LiD2 Batteries: Recent Progress and Perspective. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800348	21.8	101
277	Recent Progress in Biomass-Derived Electrode Materials for High Volumetric Performance Supercapacitors. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801007	21.8	151
276	Chemical Immobilization and Conversion of Active Polysulfides Directly by Copper Current Collector: A New Approach to Enabling Stable Room-Temperature Li-S and Na-S Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800624	21.8	47
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273	Impact of the Acid Treatment on Lignocellulosic Biomass Hard Carbon for Sodium-Ion Battery Anodes. <i>ChemSusChem</i> , <b>2018</b> , 11, 3276-3285	8.3	31
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271	Single lithium-ion conducting solid polymer electrolytes: advances and perspectives. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 797-815	58.5	611
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262	State-of-the-art characterization techniques for advanced lithium-ion batteries. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	251
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229	Identify the Removable Substructure in Carbon Activation. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7288-7295  Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance.  Nano Letters, <b>2017</b> , 17, 6018-6026	9.6	38
	Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance.		37
228	Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance.  Nano Letters, 2017, 17, 6018-6026  In Situ TEM Investigation of ZnO Nanowires during Sodiation and Lithiation Cycling. Small Methods,	11.5	37
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228 227 226	Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance.  Nano Letters, 2017, 17, 6018-6026  In Situ TEM Investigation of ZnO Nanowires during Sodiation and Lithiation Cycling. Small Methods, 2017, 1, 1700202  A novel coronene//Na2Ti3O7 dual-ion battery. Nano Energy, 2017, 40, 233-239  Enabling the high capacity of lithium-rich anti-fluorite lithium iron oxide by simultaneous anionic	11.5 12.8 17.1	37 35 74
228 227 226 225	Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance. <i>Nano Letters</i> , <b>2017</b> , 17, 6018-6026  In Situ TEM Investigation of ZnO Nanowires during Sodiation and Lithiation Cycling. <i>Small Methods</i> , <b>2017</b> , 1, 1700202  A novel coronene//Na2Ti3O7 dual-ion battery. <i>Nano Energy</i> , <b>2017</b> , 40, 233-239  Enabling the high capacity of lithium-rich anti-fluorite lithium iron oxide by simultaneous anionic and cationic redox. <i>Nature Energy</i> , <b>2017</b> , 2, 963-971  Amorphous MoS as the sulfur-equivalent cathode material for room-temperature Li-S and Na-S batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> ,	11.5 12.8 17.1 62.3	37 35 74 90
228 227 226 225 224	Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance. <i>Nano Letters</i> , <b>2017</b> , 17, 6018-6026  In Situ TEM Investigation of ZnO Nanowires during Sodiation and Lithiation Cycling. <i>Small Methods</i> , <b>2017</b> , 1, 1700202  A novel coronene//Na2Ti3O7 dual-ion battery. <i>Nano Energy</i> , <b>2017</b> , 40, 233-239  Enabling the high capacity of lithium-rich anti-fluorite lithium iron oxide by simultaneous anionic and cationic redox. <i>Nature Energy</i> , <b>2017</b> , 2, 963-971  Amorphous MoS as the sulfur-equivalent cathode material for room-temperature Li-S and Na-S batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 13091-13096  A Dicyclic Scaffold for Programmed Monocyclic and Polycyclic Polymer Architectures.	11.5 12.8 17.1 62.3 11.5	37 35 74 90 124

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200	Kinetic Study of Parasitic Reactions in Lithium-Ion Batteries: A Case Study on LiNi(0.6)Mn(0.2)Co(0.2)O2. ACS Applied Materials & Interfaces, <b>2016</b> , 8, 3446-51	9.5	63
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193 192	A lithium-oxygen battery based on lithium superoxide. <i>Nature</i> , <b>2016</b> , 529, 377-82  Insight into the Catalytic Mechanism of Bimetallic Platinum-Copper Core-Shell Nanostructures for Nonaqueous Oxygen Evolution Reactions. <i>Nano Letters</i> , <b>2016</b> , 16, 781-5	50.4	520 35
	Insight into the Catalytic Mechanism of Bimetallic Platinum-Copper Core-Shell Nanostructures for		35
192	Insight into the Catalytic Mechanism of Bimetallic Platinum-Copper Core-Shell Nanostructures for Nonaqueous Oxygen Evolution Reactions. <i>Nano Letters</i> , <b>2016</b> , 16, 781-5  Atomistic Insights into the Oriented Attachment of Tunnel-Based Oxide Nanostructures. <i>ACS Nano</i> ,	11.5	35
192 191	Insight into the Catalytic Mechanism of Bimetallic Platinum-Copper Core-Shell Nanostructures for Nonaqueous Oxygen Evolution Reactions. <i>Nano Letters</i> , <b>2016</b> , 16, 781-5  Atomistic Insights into the Oriented Attachment of Tunnel-Based Oxide Nanostructures. <i>ACS Nano</i> , <b>2016</b> , 10, 539-48  High-Performance P2-Phase Na2/3Mn0.8Fe0.1Ti0.1O2 Cathode Material for Ambient-Temperature	11.5	35 58
192 191 190	Insight into the Catalytic Mechanism of Bimetallic Platinum-Copper Core-Shell Nanostructures for Nonaqueous Oxygen Evolution Reactions. <i>Nano Letters</i> , <b>2016</b> , 16, 781-5  Atomistic Insights into the Oriented Attachment of Tunnel-Based Oxide Nanostructures. <i>ACS Nano</i> , <b>2016</b> , 10, 539-48  High-Performance P2-Phase Na2/3Mn0.8Fe0.1Ti0.1O2 Cathode Material for Ambient-Temperature Sodium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 106-116  Atomistic Exploration of the Surface-Sensitive Oriented Attachment Growth of a-MnCh Nanowires and the Formation of Defective Interface with 2B and 2B Tunnel Intergrowth. <i>Microscopy and</i>	11.5 16.7 9.6	35 58
192 191 190	Insight into the Catalytic Mechanism of Bimetallic Platinum-Copper Core-Shell Nanostructures for Nonaqueous Oxygen Evolution Reactions. <i>Nano Letters</i> , <b>2016</b> , 16, 781-5  Atomistic Insights into the Oriented Attachment of Tunnel-Based Oxide Nanostructures. <i>ACS Nano</i> , <b>2016</b> , 10, 539-48  High-Performance P2-Phase Na2/3Mn0.8Fe0.1Ti0.1O2 Cathode Material for Ambient-Temperature Sodium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 106-116  Atomistic Exploration of the Surface-Sensitive Oriented Attachment Growth of a-MnCh Nanowires and the Formation of Defective Interface with 2B and 2B Tunnel Intergrowth. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 386-387  Tuning the Mn Deposition on the Anode to Improve the Cycle Performance of the Mn-Based	11.5 16.7 9.6	35 58 166
192 191 190 189	Insight into the Catalytic Mechanism of Bimetallic Platinum-Copper Core-Shell Nanostructures for Nonaqueous Oxygen Evolution Reactions. <i>Nano Letters</i> , <b>2016</b> , 16, 781-5  Atomistic Insights into the Oriented Attachment of Tunnel-Based Oxide Nanostructures. <i>ACS Nano</i> , <b>2016</b> , 10, 539-48  High-Performance P2-Phase Na2/3Mn0.8Fe0.1Ti0.1O2 Cathode Material for Ambient-Temperature Sodium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 106-116  Atomistic Exploration of the Surface-Sensitive Oriented Attachment Growth of a-MnCh Nanowires and the Formation of Defective Interface with 2B and 2B Tunnel Intergrowth. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 386-387  Tuning the Mn Deposition on the Anode to Improve the Cycle Performance of the Mn-Based Lithium Ion Battery. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500856  High-Rate, Durable Sodium-Ion Battery Cathode Enabled by Carbon-Coated Micro-Sized Na3V2(PO4)3 Particles with Interconnected Vertical Nanowalls. <i>Advanced Materials Interfaces</i> , <b>2016</b>	11.5 16.7 9.6 0.5	35 58 166

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