Xue-Qiang Zhang

List of Publications by Citations

Source: https://exaly.com/author-pdf/4276890/xue-qiang-zhang-publications-by-citations.pdf

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

640 69,863 140 245 h-index g-index citations papers 8.78 84,291 12.5 709 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
640	Toward Safe Lithium Metal Anode in Rechargeable Batteries: A Review. <i>Chemical Reviews</i> , 2017 , 117, 10403-10473	68.1	2918
639	Advanced Asymmetric Supercapacitors Based on Ni(OH)2/Graphene and Porous Graphene Electrodes with High Energy Density. <i>Advanced Functional Materials</i> , 2012 , 22, 2632-2641	15.6	1668
638	Scalable synthesis of hierarchically structured carbon nanotube-graphene fibres for capacitive energy storage. <i>Nature Nanotechnology</i> , 2014 , 9, 555-62	28.7	1161
637	A three-dimensional carbon nanotube/graphene sandwich and its application as electrode in supercapacitors. <i>Advanced Materials</i> , 2010 , 22, 3723-8	24	1092
636	Powering Lithium-Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. <i>Nano Letters</i> , 2016 , 16, 519-27	11.5	1055
635	Review on High-Loading and High-Energy Lithium Bulfur Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1700260	21.8	1010
634	A Review of Solid Electrolyte Interphases on Lithium Metal Anode. <i>Advanced Science</i> , 2016 , 3, 1500213	13.6	962
633	Nanostructured Metal Oxides and Sulfides for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1601759	24	911
632	Fluoroethylene Carbonate Additives to Render Uniform Li Deposits in Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1605989	15.6	878
631	Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7764-7768	16.4	760
630	Dendrite-Free Lithium Deposition Induced by Uniformly Distributed Lithium Ions for Efficient Lithium Metal Batteries. <i>Advanced Materials</i> , 2016 , 28, 2888-95	24	699
629	A Review of Electrocatalytic Reduction of Dinitrogen to Ammonia under Ambient Conditions. <i>Advanced Energy Materials</i> , 2018 , 8, 1800369	21.8	619
628	Permselective graphene oxide membrane for highly stable and anti-self-discharge lithium-sulfur batteries. <i>ACS Nano</i> , 2015 , 9, 3002-11	16.7	605
627	Highly efficient metal-free growth of nitrogen-doped single-walled carbon nanotubes on plasma-etched substrates for oxygen reduction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15127-9	16.4	563
626	Unstacked double-layer templated graphene for high-rate lithium-sulphur batteries. <i>Nature Communications</i> , 2014 , 5, 3410	17.4	551
625	Ionic shield for polysulfides towards highly-stable lithium ulfur batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 347-353	35.4	547
624	Nanocarbon for Oxygen Reduction Electrocatalysis: Dopants, Edges, and Defects. <i>Advanced Materials</i> , 2017 , 29, 1604103	24	544

(2018-2013)

623	The road for nanomaterials industry: a review of carbon nanotube production, post-treatment, and bulk applications for composites and energy storage. <i>Small</i> , 2013 , 9, 1237-65	11	543
622	Spatially Confined Hybridization of Nanometer-Sized NiFe Hydroxides into Nitrogen-Doped Graphene Frameworks Leading to Superior Oxygen Evolution Reactivity. <i>Advanced Materials</i> , 2015 , 27, 4516-4522	24	533
621	Hierarchical NiMn Layered Double Hydroxide/Carbon Nanotubes Architecture with Superb Energy Density for Flexible Supercapacitors. <i>Advanced Functional Materials</i> , 2014 , 24, 2938-2946	15.6	532
620	Nitrogen-doped graphene/carbon nanotube hybrids: in situ formation on bifunctional catalysts and their superior electrocatalytic activity for oxygen evolution/reduction reaction. <i>Small</i> , 2014 , 10, 2251-9	11	525
619	Topological Defects in Metal-Free Nanocarbon for Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2016 , 28, 6845-51	24	522
618	An anion-immobilized composite electrolyte for dendrite-free lithium metal anodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11069-11074	11.5	515
617	Design Principles for Heteroatom-Doped Nanocarbon to Achieve Strong Anchoring of Polysulfides for Lithium-Sulfur Batteries. <i>Small</i> , 2016 , 12, 3283-91	11	515
616	Prestoring Lithium into Stable 3D Nickel Foam Host as Dendrite-Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2017 , 27, 1700348	15.6	500
615	Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. <i>Advanced Materials</i> , 2016 , 28, 2155-62	24	498
614	Nitrogen-doped aligned carbon nanotube/graphene sandwiches: facile catalytic growth on bifunctional natural catalysts and their applications as scaffolds for high-rate lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 6100-5	24	492
613	Multi-functional separator/interlayer system for high-stable lithium-sulfur batteries: Progress and prospects. <i>Energy Storage Materials</i> , 2015 , 1, 127-145	19.4	491
612	Hierarchical Nanocomposites Derived from Nanocarbons and Layered Double Hydroxides - Properties, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2012 , 22, 675-694	15.6	477
611	Defect Engineering toward Atomic Co-N -C in Hierarchical Graphene for Rechargeable Flexible Solid Zn-Air Batteries. <i>Advanced Materials</i> , 2017 , 29, 1703185	24	473
610	Graphene/single-walled carbon nanotube hybrids: one-step catalytic growth and applications for high-rate Li-S batteries. <i>ACS Nano</i> , 2012 , 6, 10759-69	16.7	462
609	A review of flexible lithium-sulfur and analogous alkali metal-chalcogen rechargeable batteries. <i>Chemical Society Reviews</i> , 2017 , 46, 5237-5288	58.5	461
608	Nanoarchitectured Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 2772-2781	15.6	452
607	Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2016 , 55, 12990-12995	16.4	442
606	Coralloid Carbon Fiber-Based Composite Lithium Anode for Robust Lithium Metal Batteries. <i>Joule</i> , 2018 , 2, 764-777	27.8	435

605	Hierarchical Free-Standing Carbon-Nanotube Paper Electrodes with Ultrahigh Sulfur-Loading for LithiumBulfur Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 6105-6112	15.6	432
604	A Cooperative Interface for Highly Efficient Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016 , 28, 955	1 2 9558	3 431
603	Carbon nitride with simultaneous porous network and O-doping for efficient solar-energy-driven hydrogen evolution. <i>Nano Energy</i> , 2015 , 12, 646-656	17.1	420
602	Implantable Solid Electrolyte Interphase in Lithium-Metal Batteries. <i>CheM</i> , 2017 , 2, 258-270	16.2	411
601	Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5301-5305	16.4	402
600	A review of rechargeable batteries for portable electronic devices. <i>Information Materily</i> , 2019 , 1, 6-32	23.1	400
599	Recent Advances in Energy Chemistry between Solid-State Electrolyte and Safe Lithium-Metal Anodes. <i>CheM</i> , 2019 , 5, 74-96	16.2	383
598	A Review of Precious-Metal-Free Bifunctional Oxygen Electrocatalysts: Rational Design and Applications in ZnAir Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1803329	15.6	368
597	Artificial Soft R igid Protective Layer for Dendrite-Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2018 , 28, 1705838	15.6	355
596	Conductive and Catalytic Triple-Phase Interfaces Enabling Uniform Nucleation in High-Rate LithiumBulfur Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1802768	21.8	347
595	A general approach to cobalt-based homobimetallic phosphide ultrathin nanosheets for highly efficient oxygen evolution in alkaline media. <i>Energy and Environmental Science</i> , 2017 , 10, 893-899	35.4	342
594	Advanced Micro/Nanostructures for Lithium Metal Anodes. <i>Advanced Science</i> , 2017 , 4, 1600445	13.6	338
593	Multiscale Principles To Boost Reactivity in Gas-Involving Energy Electrocatalysis. <i>Accounts of Chemical Research</i> , 2018 , 51, 881-889	24.3	335
592	Lithium Bond Chemistry in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8178-8182	16.4	332
591	Open-Ended, N-Doped Carbon Nanotube©raphene Hybrid Nanostructures as High-Performance Catalyst Support. <i>Advanced Functional Materials</i> , 2011 , 21, 999-1006	15.6	331
590	Aligned carbon nanotube/sulfur composite cathodes with high sulfur content for lithium E ulfur batteries. <i>Nano Energy</i> , 2014 , 4, 65-72	17.1	328
589	Synchronous immobilization and conversion of polysulfides on a VO2№N binary host targeting high sulfur load LiB batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 2620-2630	35.4	327
588	Popcorn Inspired Porous Macrocellular Carbon: Rapid Puffing Fabrication from Rice and Its Applications in LithiumBulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1701110	21.8	317

(2016-2016)

587	Nanostructured energy materials for electrochemical energy conversion and storage: A review. Journal of Energy Chemistry, 2016 , 25, 967-984	12	316
586	Structural evolution during annealing of thermally reduced graphene nanosheets for application in supercapacitors. <i>Carbon</i> , 2012 , 50, 3572-3584	10.4	312
585	Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfur-Containing Guest for Highly Stable Lithium-Sulfur Batteries: Mechanistic Insight into Capacity Degradation. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400227	4.6	311
584	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N Catalytic Site:A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8614-8618	16.4	305
583	Artificial Interphases for Highly Stable Lithium Metal Anode. <i>Matter</i> , 2019 , 1, 317-344	12.7	303
582	Toward Full Exposure of Active Sites Nanocarbon Electrocatalyst with Surface Enriched Nitrogen for Superior Oxygen Reduction and Evolution Reactivity. <i>Advanced Functional Materials</i> , 2014 , 24, 5956-	55561	300
581	Towards High-Safe Lithium Metal Anodes: Suppressing Lithium Dendrites via Tuning Surface Energy. <i>Advanced Science</i> , 2017 , 4, 1600168	13.6	298
580	CaO-Templated Growth of Hierarchical Porous Graphene for High-Power LithiumBulfur Battery Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 577-585	15.6	294
579	Carbon nanotube mass production: principles and processes. <i>ChemSusChem</i> , 2011 , 4, 864-89	8.3	288
578	Dual-Layered Film Protected Lithium Metal Anode to Enable Dendrite-Free Lithium Deposition. <i>Advanced Materials</i> , 2018 , 30, e1707629	24	278
577	Rational Integration of Polypropylene/Graphene Oxide/Nafion as Ternary-Layered Separator to Retard the Shuttle of Polysulfides for Lithium-Sulfur Batteries. <i>Small</i> , 2016 , 12, 381-9	11	267
576	Lithiophilicity chemistry of heteroatom-doped carbon to guide uniform lithium nucleation in lithium metal anodes. <i>Science Advances</i> , 2019 , 5, eaau7728	14.3	266
575	Ternary Hybrids of Amorphous Nickel Hydroxidellarbon Nanotube-Conducting Polymer for Supercapacitors with High Energy Density, Excellent Rate Capability, and Long Cycle Life. <i>Advanced Functional Materials</i> , 2015 , 25, 1063-1073	15.6	264
574	Dual-Phase Lithium Metal Anode Containing a Polysulfide-Induced Solid Electrolyte Interphase and Nanostructured Graphene Framework for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2015 , 9, 6373-82	16.7	261
573	Nanodiamonds suppress the growth of lithium dendrites. <i>Nature Communications</i> , 2017 , 8, 336	17.4	257
572	Growth of half-meter long carbon nanotubes based on Schulz-Flory distribution. ACS Nano, 2013, 7, 615	6 -6.1	255
571	Bifunctional Transition Metal Hydroxysulfides: Room-Temperature Sulfurization and Their Applications in Zn-Air Batteries. <i>Advanced Materials</i> , 2017 , 29, 1702327	24	252
57°	Janus Separator of Polypropylene-Supported Cellular Graphene Framework for Sulfur Cathodes with High Utilization in Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2016 , 3, 1500268	13.6	251

569	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14055-14059	16.4	249
568	Aromatic sulfide, sulfoxide, and sulfone mediated mesoporous carbon monolith for use in supercapacitor. <i>Nano Energy</i> , 2012 , 1, 624-630	17.1	248
567	An Armored Mixed Conductor Interphase on a Dendrite-Free Lithium-Metal Anode. <i>Advanced Materials</i> , 2018 , 30, e1804461	24	246
566	Superlubricity in centimetres-long double-walled carbon nanotubes under ambient conditions. <i>Nature Nanotechnology</i> , 2013 , 8, 912-6	28.7	243
565	High-Performance All-Solid-State LithiumBulfur Batteries Enabled by Amorphous Sulfur-Coated Reduced Graphene Oxide Cathodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1602923	21.8	241
564	The gap between long lifespan Li-S coin and pouch cells: The importance of lithium metal anode protection. <i>Energy Storage Materials</i> , 2017 , 6, 18-25	19.4	240
563	Fabrication and electrochemical performances of hierarchical porous Ni(OH)2 nanoflakes anchored on graphene sheets. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11494		240
562	Hierarchically aminated graphene honeycombs for electrochemical capacitive energy storage. Journal of Materials Chemistry, 2012 , 22, 14076		239
561	Annealing a graphene oxide film to produce a free standing high conductive graphene film. <i>Carbon</i> , 2012 , 50, 659-667	10.4	236
560	An ion redistributor for dendrite-free lithium metal anodes. Science Advances, 2018, 4, eaat3446	14.3	231
559	Sulfide solid electrolytes for all-solid-state lithium batteries: Structure, conductivity, stability and application. <i>Energy Storage Materials</i> , 2018 , 14, 58-74	19.4	228
558	A Bifunctional Perovskite Promoter for Polysulfide Regulation toward Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018 , 30, 1705219	24	228
557	A review of nanocarbons in energy electrocatalysis: Multifunctional substrates and highly active sites. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1077-1093	12	220
556	A porphyrin covalent organic framework cathode for flexible Zn\(\textit{B}\)ir batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 1723-1729	35.4	219
555	Combining theory and experiment in lithium ulfur batteries: Current progress and future perspectives. <i>Materials Today</i> , 2019 , 22, 142-158	21.8	217
554	Controlled functionalization of carbonaceous fibers for asymmetric solid-state micro-supercapacitors with high volumetric energy density. <i>Advanced Materials</i> , 2014 , 26, 6790-7	24	217
553	Regulating the Inner Helmholtz Plane for Stable Solid Electrolyte Interphase on Lithium Metal Anodes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9422-9429	16.4	216
552	Li2S5-based ternary-salt electrolyte for robust lithium metal anode. <i>Energy Storage Materials</i> , 2016 , 3. 77-84	19.4	215

551	Implanting Atomic Cobalt within Mesoporous Carbon toward Highly Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903813	24	215
550	Fluorinated Solid-Electrolyte Interphase in High-Voltage Lithium Metal Batteries. <i>Joule</i> , 2019 , 3, 2647-2	66/1 8	214
549	Exceptional catalytic effects of black phosphorus quantum dots in shuttling-free lithium sulfur batteries. <i>Nature Communications</i> , 2018 , 9, 4164	17.4	210
548	Coordination Tunes Selectivity: Two-Electron Oxygen Reduction on High-Loading Molybdenum Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9171-9176	16.4	206
547	Entrapment of sulfur in hierarchical porous graphene for lithium ulfur batteries with high rate performance from 40 to 60 Cc. <i>Nano Energy</i> , 2013 , 2, 314-321	17.1	204
546	Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3779-3783	16.4	204
545	3D TiC/C Core/Shell Nanowire Skeleton for Dendrite-Free and Long-Life Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2018 , 8, 1702322	21.8	204
544	An Analogous Periodic Law for Strong Anchoring of Polysulfides on Polar Hosts in Lithium Sulfur Batteries: S- or Li-Binding on First-Row Transition-Metal Sulfides?. <i>ACS Energy Letters</i> , 2017 , 2, 795-801	20.1	203
543	A Review of Functional Binders in Lithium Bulfur Batteries. Advanced Energy Materials, 2018, 8, 1802107	21.8	203
542	Lithium metal protection through in-situ formed solid electrolyte interphase in lithium-sulfur batteries: The role of polysulfides on lithium anode. <i>Journal of Power Sources</i> , 2016 , 327, 212-220	8.9	201
541	Designing host materials for sulfur cathodes: from physical confinement to surface chemistry. Angewandte Chemie - International Edition, 2015 , 54, 11018-20	16.4	196
540	Expediting redox kinetics of sulfur species by atomic-scale electrocatalysts in lithiumBulfur batteries. <i>Informa</i> Materily, 2019 , 1, 533-541	23.1	196
539	Macroporous 'bubble' graphene film via template-directed ordered-assembly for high rate supercapacitors. <i>Chemical Communications</i> , 2012 , 48, 7149-51	5.8	193
538	3D Carbonaceous Current Collectors: The Origin of Enhanced Cycling Stability for High-Sulfur-Loading LithiumBulfur Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 6351-6358	15.6	191
537	A Perspective toward Practical Lithium-Sulfur Batteries. ACS Central Science, 2020, 6, 1095-1104	16.8	184
536	Rationalizing Electrocatalysis of LiB Chemistry by Mediator Design: Progress and Prospects. <i>Advanced Energy Materials</i> , 2020 , 10, 1901075	21.8	184
535	Framework-Porphyrin-Derived Single-Atom Bifunctional Oxygen Electrocatalysts and their Applications in Zn-Air Batteries. <i>Advanced Materials</i> , 2019 , 31, e1900592	24	179
534	Intercalated Electrolyte with High Transference Number for Dendrite-Free Solid-State Lithium Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1901047	15.6	178

533	Lithiophilic LiC Layers on Carbon Hosts Enabling Stable Li Metal Anode in Working Batteries. <i>Advanced Materials</i> , 2019 , 31, e1807131	24	177
532	Regulating Anions in the Solvation Sheath of Lithium Ions for Stable Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 411-416	20.1	176
531	Synthesis of biodiesel from cottonseed oil and methanol using a carbon-based solid acid catalyst. <i>Fuel Processing Technology</i> , 2009 , 90, 1002-1008	7.2	175
530	Lithium Thatrix composite anode protected by a solid electrolyte layer for stable lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2019 , 37, 29-34	12	175
529	Porphyrin-Derived Graphene-Based Nanosheets Enabling Strong Polysulfide Chemisorption and Rapid Kinetics in LithiumBulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1800849	21.8	172
528	ReviewLi Metal Anode in Working Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A6058-A6072	3.9	172
527	A Polysulfide-Immobilizing Polymer Retards the Shuttling of Polysulfide Intermediates in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018 , 30, e1804581	24	168
526	Perspectives for restraining harsh lithium dendrite growth: Towards robust lithium metal anodes. <i>Energy Storage Materials</i> , 2018 , 15, 148-170	19.4	166
525	Controlling Dendrite Growth in Solid-State Electrolytes. ACS Energy Letters, 2020, 5, 833-843	20.1	165
524	Sulfurized solid electrolyte interphases with a rapid Li+ diffusion on dendrite-free Li metal anodes. <i>Energy Storage Materials</i> , 2018 , 10, 199-205	19.4	165
523	Healing High-Loading Sulfur Electrodes with Unprecedented Long Cycling Life: Spatial Heterogeneity Control. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8458-8466	16.4	163
522	Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. <i>Advanced Materials</i> , 2019 , 31, e1808392	24	162
521	Direct observation of graphene growth and associated copper substrate dynamics by in situ scanning electron microscopy. <i>ACS Nano</i> , 2015 , 9, 1506-19	16.7	161
520	Embedded high density metal nanoparticles with extraordinary thermal stability derived from guest-host mediated layered double hydroxides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14739-41	16.4	161
519	A Toolbox for LithiumBulfur Battery Research: Methods and Protocols. Small Methods, 2017, 1, 1700134	112.8	160
518	Electronic and Ionic Channels in Working Interfaces of Lithium Metal Anodes. <i>ACS Energy Letters</i> , 2018 , 3, 1564-1570	20.1	158
517	Catalytic self-limited assembly at hard templates: a mesoscale approach to graphene nanoshells for lithium-sulfur batteries. <i>ACS Nano</i> , 2014 , 8, 11280-9	16.7	156
516	Rational design of two-dimensional nanomaterials for lithiumBulfur batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 1049-1075	35.4	156

(2016-2015)

515	Interconnected carbon nanotube/graphene nanosphere scaffolds as free-standing paper electrode for high-rate and ultra-stable lithiumBulfur batteries. <i>Nano Energy</i> , 2015 , 11, 746-755	17.1	154
514	Binder-free activated carbon/carbon nanotube paper electrodes for use in supercapacitors. <i>Nano Research</i> , 2011 , 4, 870-881	10	154
513	Fast Charging Lithium Batteries: Recent Progress and Future Prospects. Small, 2019, 15, e1805389	11	151
512	Electrosynthesis of Hydrogen Peroxide Synergistically Catalyzed by Atomic Co-N -C Sites and Oxygen Functional Groups in Noble-Metal-Free Electrocatalysts. <i>Advanced Materials</i> , 2019 , 31, e18081	7 3' 4	149
511	High-defect hydrophilic carbon cuboids anchored with Co/CoO nanoparticles as highly efficient and ultra-stable lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10166-10173	13	149
510	Superstrong ultralong carbon nanotubes for mechanical energy storage. <i>Advanced Materials</i> , 2011 , 23, 3387-91	24	148
509	A promising PEO/LAGP hybrid electrolyte prepared by a simple method for all-solid-state lithium batteries. <i>Solid State Ionics</i> , 2016 , 295, 65-71	3.3	147
508	Columnar Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14207-14211	16.4	146
507	Enhanced Electrochemical Kinetics and Polysulfide Traps of Indium Nitride for Highly Stable Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2018 , 12, 9578-9586	16.7	146
506	Hierarchical Graphenetarbon Fiber Composite Paper as a Flexible Lateral Heat Spreader. <i>Advanced Functional Materials</i> , 2014 , 24, 4222-4228	15.6	145
505	Intrinsic Electrocatalytic Activity Regulation of M-N-C Single-Atom Catalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4448-4463	16.4	145
504	A Nanosized CoNi Hydroxide@Hydroxysulfide Core-Shell Heterostructure for Enhanced Oxygen Evolution. <i>Advanced Materials</i> , 2019 , 31, e1805658	24	144
503	Advances in Interfaces between Li Metal Anode and Electrolyte. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701097	4.6	144
502	Atomic Modulation and Structure Design of Carbons for Bifunctional Electrocatalysis in Metal-Air Batteries. <i>Advanced Materials</i> , 2019 , 31, e1803800	24	141
501	Nitrogen doped holey graphene as an efficient metal-free multifunctional electrochemical catalyst for hydrazine oxidation and oxygen reduction. <i>Nanoscale</i> , 2013 , 5, 3457-64	7.7	140
500	Ion-Solvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 734-737	16.4	140
499	High-performance flexible lithium-ion electrodes based on robust network architecture. <i>Energy and Environmental Science</i> , 2012 , 5, 6845	35.4	137
498	Monolithic-structured ternary hydroxides as freestanding bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7245-7250	13	135

497	Towards stable lithium-sulfur batteries: Mechanistic insights into electrolyte decomposition on lithium metal anode. <i>Energy Storage Materials</i> , 2017 , 8, 194-201	19.4	133
496	A compact inorganic layer for robust anode protection in lithium-sulfur batteries. <i>Informat</i> d Materilly, 2020 , 2, 379-388	23.1	133
495	Dendrite-free lithium metal anodes: stable solid electrolyte interphases for high-efficiency batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7207-7209	13	132
494	Three-dimensional hierarchically ordered porous carbons with partially graphitic nanostructures for electrochemical capacitive energy storage. <i>ChemSusChem</i> , 2012 , 5, 563-71	8.3	132
493	3D Mesoporous van der Waals Heterostructures for Trifunctional Energy Electrocatalysis. <i>Advanced Materials</i> , 2018 , 30, 1705110	24	132
492	Scaled-up fabrication of porous-graphene-modified separators for high-capacity lithiumBulfur batteries. <i>Energy Storage Materials</i> , 2017 , 7, 56-63	19.4	131
491	A review on energy chemistry of fast-charging anodes. <i>Chemical Society Reviews</i> , 2020 , 49, 3806-3833	58.5	131
490	Aligned sulfur-coated carbon nanotubes with a polyethylene glycol barrier at one end for use as a high efficiency sulfur cathode. <i>Carbon</i> , 2013 , 58, 99-106	10.4	131
489	Dendrite-free nanostructured anode: entrapment of lithium in a 3D fibrous matrix for ultra-stable lithium-sulfur batteries. <i>Small</i> , 2014 , 10, 4257-63	11	130
488	Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2017 , 129, 7872-7876	3.6	127
487	A review of transition metal chalcogenide/graphene nanocomposites for energy storage and conversion. <i>Chinese Chemical Letters</i> , 2017 , 28, 2180-2194	8.1	127
486	A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3252-3257	16.4	127
485	The mass production of carbon nanotubes using a nano-agglomerate fluidized bed reactor: A multiscale spacelime analysis. <i>Powder Technology</i> , 2008 , 183, 10-20	5.2	125
484	Direct growth of flexible LiMn2O4/CNT lithium-ion cathodes. <i>Chemical Communications</i> , 2011 , 47, 9669-	- 7 518	120
483	Enhanced Chemoselective Hydrogenation through Tuning the Interaction between Pt Nanoparticles and Carbon Supports: Insights from Identical Location Transmission Electron Microscopy and X-ray Photoelectron Spectroscopy. <i>ACS Catalysis</i> , 2016 , 6, 7844-7854	13.1	119
482	Porphyrin Organic Framework Hollow Spheres and Their Applications in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018 , 30, e1707483	24	118
481	Defect-rich carbon fiber electrocatalysts with porous graphene skin for flexible solid-state zinclir batteries. <i>Energy Storage Materials</i> , 2018 , 15, 124-130	19.4	118
480	Porous carbon derived from rice husks as sustainable bioresources: insights into the role of micro-/mesoporous hierarchy in hosting active species for lithiumBulphur batteries. <i>Green Chemistry</i> 2016 18, 5169-5179	10	117

479	Recent Advances in Energy Chemical Engineering of Next-Generation Lithium Batteries. <i>Engineering</i> , 2018 , 4, 831-847	9.7	116
478	Thermal Exfoliation of Layered Metal-Organic Frameworks into Ultrahydrophilic Graphene Stacks and Their Applications in Li-S Batteries. <i>Advanced Materials</i> , 2017 , 29, 1702829	24	115
477	Synthesis of biodiesel from a model waste oil feedstock using a carbon-based solid acid catalyst: reaction and separation. <i>Bioresource Technology</i> , 2010 , 101, 5374-84	11	115
476	Dual-sized NiFe layered double hydroxides in situ grown on oxygen-decorated self-dispersal nanocarbon as enhanced water oxidation catalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24540-245	5 4 6	114
475	Polysulfide shuttle control: Towards a lithium-sulfur battery with superior capacity performance up to 1000 cycles by matching the sulfur/electrolyte loading. <i>Journal of Power Sources</i> , 2014 , 253, 263-268	8.9	113
474	Dissolved carbon controls the initial stages of nanocarbon growth. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3313-7	16.4	111
473	3D Mesoporous Graphene: CVD Self-Assembly on Porous Oxide Templates and Applications in High-Stable Li-S Batteries. <i>Small</i> , 2015 , 11, 5243-52	11	110
472	Plating/Stripping Behavior of Actual Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019 , 9, 1902254	21.8	109
471	Hierarchical Composites of Single/Double-Walled Carbon Nanotubes Interlinked Flakes from Direct Carbon Deposition on Layered Double Hydroxides. <i>Advanced Functional Materials</i> , 2010 , 20, 677-685	15.6	109
470	Liquid phase therapy to solid electrolytellectrode interface in solid-state Li metal batteries: A review. <i>Energy Storage Materials</i> , 2020 , 24, 75-84	19.4	109
469	A Quinonoid-Imine-Enriched Nanostructured Polymer Mediator for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1606802	24	107
468	The Radical Pathway Based on a Lithium-Metal-Compatible High-Dielectric Electrolyte for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16732-16736	16.4	107
467	Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9011-9017	16.4	106
466	The catalytic pathways of hydrohalogenation over metal-free nitrogen-doped carbon nanotubes. <i>ChemSusChem</i> , 2014 , 7, 723-8	8.3	106
465	Energy-Absorbing Hybrid Composites Based on Alternate Carbon-Nanotube and Inorganic Layers. <i>Advanced Materials</i> , 2009 , 21, 2876-2880	24	106
464	Regulating Interfacial Chemistry in Lithium-Ion Batteries by a Weakly Solvating Electrolyte*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4090-4097	16.4	106
463	Anionic Regulated NiFe (Oxy)Sulfide Electrocatalysts for Water Oxidation. <i>Small</i> , 2017 , 13, 1700610	11	104
462	Enhanced Electrochemical Kinetics on Conductive Polar Mediators for LithiumBulfur Batteries. Angewandte Chemie, 2016, 128, 13184-13189	3.6	104

461	A Cu/Zn/Al/Zr Fibrous Catalyst that is an Improved CO2 Hydrogenation to Methanol Catalyst. <i>Catalysis Letters</i> , 2007 , 118, 264-269	2.8	102
460	Rational design of porous nitrogen-doped Ti3C2 MXene as a multifunctional electrocatalyst for LiB chemistry. <i>Nano Energy</i> , 2020 , 70, 104555	17.1	101
459	Towards high purity graphene/single-walled carbon nanotube hybrids with improved electrochemical capacitive performance. <i>Carbon</i> , 2013 , 54, 403-411	10.4	100
458	Dual-heteroatom-modified ordered mesoporous carbon: Hydrothermal functionalization, structure, and its electrochemical performance. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4963		99
457	Dimethyl Ether Synthesis from CO2 Hydrogenation on a CuOInOIAl2O3IIrO2/HZSM-5 Bifunctional Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 6547-6554	3.9	99
456	The Failure of Solid Electrolyte Interphase on Li Metal Anode: Structural Uniformity or Mechanical Strength?. <i>Advanced Energy Materials</i> , 2020 , 10, 1903645	21.8	98
455	Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. <i>Angewandte Chemie</i> , 2018 , 130, 5399-5403	3.6	97
454	Recent advances in understanding dendrite growth on alkali metal anodes. <i>EnergyChem</i> , 2019 , 1, 10000)3 ,6.9	97
453	Hierarchical vine-tree-like carbon nanotube architectures: In-situ CVD self-assembly and their use as robust scaffolds for lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 7051-8	24	97
452	Growth Deceleration of Vertically Aligned Carbon Nanotube Arrays: Catalyst Deactivation or Feedstock Diffusion Controlled?. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4892-4896	3.8	96
451	Polysulfide Electrocatalysis on Framework Porphyrin in High-Capacity and High-Stable LithiumBulfur Batteries. <i>CCS Chemistry</i> ,128-137	7.2	96
45 ⁰	Uniform Nucleation of Lithium in 3D Current Collectors via Bromide Intermediates for Stable Cycling Lithium Metal Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 18051-18057	16.4	96
449	Sulfur Redox Reactions at Working Interfaces in LithiumBulfur Batteries: A Perspective. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1802046	4.6	95
448	Vertically aligned carbon nanotube arrays grown on a lamellar catalyst by fluidized bed catalytic chemical vapor deposition. <i>Carbon</i> , 2009 , 47, 2600-2610	10.4	94
447	Advanced energy materials for flexible batteries in energy storage: A review. SmartMat, 2020, 1,	22.8	93
446	A DiffusionReaction Competition Mechanism to Tailor Lithium Deposition for Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7743-7747	16.4	91
445	Effective exposure of nitrogen heteroatoms in 3D porous graphene framework for oxygen reduction reaction and lithiumBulfur batteries. <i>Journal of Energy Chemistry</i> , 2018 , 27, 167-175	12	90
444	Carbon-nanotube-array double helices. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3642-5	16.4	90

443	Ion-Responsive Channels of Zwitterion-Carbon Nanotube Membrane for Rapid Water Permeation and Ultrahigh Mono-/Multivalent Ion Selectivity. <i>ACS Nano</i> , 2015 , 9, 7488-96	16.7	89
442	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 14251-14255	3.6	87
441	Radial growth of vertically aligned carbon nanotube arrays from ethylene on ceramic spheres. <i>Carbon</i> , 2008 , 46, 1152-1158	10.4	87
440	Seaurchin-like hierarchical NiCo2O4@NiMoO4 core-shell nanomaterials for high performance supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23451-60	3.6	86
439	Recent advances of noble-metal-free bifunctional oxygen reduction and evolution electrocatalysts. <i>Chemical Society Reviews</i> , 2021 , 50, 7745-7778	58.5	86
438	Alloy Anodes for Rechargeable Alkali-Metal Batteries: Progress and Challenge 2019 , 1, 217-229		85
437	Advances in Hybrid Electrocatalysts for Oxygen Evolution Reactions: Rational Integration of NiFe Layered Double Hydroxides and Nanocarbon. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 473-486	3.1	84
436	Spatially uniform deposition of lithium metal in 3D Janus hosts. <i>Energy Storage Materials</i> , 2019 , 16, 259	-2664	84
435	Regulating p-block metals in perovskite nanodots for efficient electrocatalytic water oxidation. <i>Nature Communications</i> , 2017 , 8, 934	17.4	83
434	The formation of strong-couple interactions between nitrogen-doped graphene and sulfur/lithium (poly)sulfides in lithium-sulfur batteries. <i>2D Materials</i> , 2015 , 2, 014011	5.9	83
433	Highly Selective Electrochemical Reduction of Dinitrogen to Ammonia at Ambient Temperature and Pressure over Iron Oxide Catalysts. <i>Chemistry - A European Journal</i> , 2018 , 24, 18494-18501	4.8	82
432	Synchronous Growth of Vertically Aligned Carbon Nanotubes with Pristine Stress in the Heterogeneous Catalysis Process. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14638-14643	3.8	82
431	An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19262-19271	16.4	81
430	Long carbon nanotubes intercrossed Cu/Zn/Al/Zr catalyst for CO/CO2 hydrogenation to methanol/dimethyl ether. <i>Catalysis Today</i> , 2010 , 150, 55-60	5.3	80
429	Three-dimensional aluminum foam/carbon nanotube scaffolds as long- and short-range electron pathways with improved sulfur loading for high energy density lithiumBulfur batteries. <i>Journal of Power Sources</i> , 2014 , 261, 264-270	8.9	79
428	A review of solid electrolytes for safe lithium-sulfur batteries. <i>Science China Chemistry</i> , 2017 , 60, 1508-1	5726	79
427	Metastable Rock Salt Oxide-Mediated Synthesis of High-Density Dual-Protected M@NC for Long-Life Rechargeable Zinc-Air Batteries with Record Power Density. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7116-7127	16.4	78
426	Electrochemical Diagram of an Ultrathin Lithium Metal Anode in Pouch Cells. <i>Advanced Materials</i> , 2019 , 31, e1902785	24	78

425	Flexible all-carbon interlinked nanoarchitectures as cathode scaffolds for high-rate lithium ulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10869-10875	13	78
424	100 mm long, semiconducting triple-walled carbon nanotubes. <i>Advanced Materials</i> , 2010 , 22, 1867-71	24	78
423	The feasibility of producing MWCNT paper and strong MWCNT film from VACNT array. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 531-539	2.6	78
422	CationBolvent, CationAnion, and SolventBolvent Interactions with Electrolyte Solvation in Lithium Batteries. <i>Batteries and Supercaps</i> , 2019 , 2, 128-131	5.6	78
421	Mass production of aligned carbon nanotube arrays by fluidized bed catalytic chemical vapor deposition. <i>Carbon</i> , 2010 , 48, 1196-1209	10.4	77
420	Advances in Lithium-Sulfur Batteries: From Academic Research to Commercial Viability. <i>Advanced Materials</i> , 2021 , 33, e2003666	24	77
419	A review of anion-regulated multi-anion transition metal compounds for oxygen evolution electrocatalysis. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 521-534	6.8	76
418	Graphene/nitrogen-doped porous carbon sandwiches for the metal-free oxygen reduction reaction: conductivity versus active sites. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12658-12666	13	76
417	Hierarchical carbon nanotube membrane with high packing density and tunable porous structure for high voltage supercapacitors. <i>Carbon</i> , 2012 , 50, 5167-5175	10.4	76
416	The dendrite growth in 3D structured lithium metal anodes: Electron or ion transfer limitation?. <i>Energy Storage Materials</i> , 2019 , 23, 556-565	19.4	75
415	Review of nanostructured current collectors in lithiumBulfur batteries. <i>Nano Research</i> , 2017 , 10, 4027-4	0 <u>5</u> 4	74
414	Tailoring Lithium Deposition via an SEI-Functionalized Membrane Derived from LiF Decorated Layered Carbon Structure. <i>Advanced Energy Materials</i> , 2019 , 9, 1802912	21.8	74
413	Critical Current Density in Solid-State Lithium Metal Batteries: Mechanism, Influences, and Strategies. <i>Advanced Functional Materials</i> , 2021 , 31, 2009925	15.6	74
412	A Review of Advanced Energy Materials for MagnesiumBulfur Batteries. <i>Energy and Environmental Materials</i> , 2018 , 1, 100-112	13	74
411	MOF-derived conductive carbon nitrides for separator-modified Liß batteries and flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1757-1766	13	73
410	Inhibiting Solvent Co-Intercalation in a Graphite Anode by a Localized High-Concentration Electrolyte in Fast-Charging Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3402-3406	16.4	73
409	Kinetically Controlled Coprecipitation for General Fast Synthesis of Sandwiched Metal Hydroxide Nanosheets/Graphene Composites toward Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2018 , 28, 1704594	15.6	73
408	Cathode materials based on carbon nanotubes for high-energy-density lithiumBulfur batteries. Carbon, 2014, 75, 161-168	10.4	72

407	The Origin of the Reduced Reductive Stability of Ion-Solvent Complexes on Alkali and Alkaline Earth Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16643-16647	16.4	72	
406	Hydrothermal synthesis of porous phosphorus-doped carbon nanotubes and their use in the oxygen reduction reaction and lithium-sulfur batteries. <i>New Carbon Materials</i> , 2016 , 31, 352-362	4.4	71	
405	Recent advances in spinel-type electrocatalysts for bifunctional oxygen reduction and oxygen evolution reactions. <i>Journal of Energy Chemistry</i> , 2021 , 53, 290-302	12	70	
404	Review on Li Deposition in Working Batteries: From Nucleation to Early Growth. <i>Advanced Materials</i> , 2021 , 33, e2004128	24	70	
403	A perspective on sustainable energy materials for lithium batteries. SusMat, 2021, 1, 38-50		69	
402	Trimetallic Sulfide Mesoporous Nanospheres as Superior Electrocatalysts for Rechargeable ZnAir Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801839	21.8	69	
401	Template growth of porous graphene microspheres on layered double oxide catalysts and their applications in lithiumBulfur batteries. <i>Carbon</i> , 2015 , 92, 96-105	10.4	68	
400	Composite Cathodes Containing SWCNT@S Coaxial Nanocables: Facile Synthesis, Surface Modification, and Enhanced Performance for Li-Ion Storage. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 158-165	3.1	68	
399	CO2-Assisted SWNT Growth on Porous Catalysts. <i>Chemistry of Materials</i> , 2007 , 19, 1226-1230	9.6	68	
398	Building an Air Stable and Lithium Deposition Regulable Garnet Interface from Moderate-Temperature Conversion Chemistry. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12	.069 :1 2	2075	
397	Current-density dependence of Li2S/Li2S2 growth in lithiumBulfur batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2976-2982	35.4	67	
396	Oxygen Reduction Reaction on Graphene in an Electro-Fenton System: In Situ Generation of H2 O2 for the Oxidation of Organic Compounds. <i>ChemSusChem</i> , 2016 , 9, 1194-9	8.3	67	
395	Layered double hydroxides as catalysts for the efficient growth of high quality single-walled carbon nanotubes in a fluidized bed reactor. <i>Carbon</i> , 2010 , 48, 3260-3270	10.4	67	
394	A Review of Composite Lithium Metal Anode for Practical Applications. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900806	6.8	67	
393	A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16223-16227	16.4	66	
392	Towards full demonstration of high areal loading sulfur cathode in lithiumBulfur batteries. <i>Journal of Energy Chemistry</i> , 2019 , 39, 17-22	12	66	
391	Lithium-Anode Protection in LithiumBulfur Batteries. <i>Trends in Chemistry</i> , 2019 , 1, 693-704	14.8	65	
390	Rational design of multi-channel continuous electronic/ionic conductive networks for room temperature vanadium tetrasulfide-based all-solid-state lithium-sulfur batteries. <i>Nano Energy</i> , 2019 , 57, 771-782	17.1	65	

389	Recent progress in carbon/lithium metal composite anode for safe lithium metal batteries. <i>Rare Metals</i> , 2018 , 37, 449-458	5.5	65
388	Encapsulation, Compensation, and Substitution of Catalyst Particles during Continuous Growth of Carbon Nanotubes. <i>Advanced Materials</i> , 2007 , 19, 2360-2363	24	64
387	Beaver-dam-like membrane: A robust and sulphifilic MgBO2(OH)/CNT/PP nest separator in Li-S batteries. <i>Energy Storage Materials</i> , 2017 , 8, 153-160	19.4	63
386	Anion-Regulated Hydroxysulfide Monoliths as OER/ORR/HER Electrocatalysts and their Applications in Self-Powered Electrochemical Water Splitting. <i>Small Methods</i> , 2018 , 2, 1800055	12.8	63
385	An aqueous preoxidation method for monolithic perovskite electrocatalysts with enhanced water oxidation performance. <i>Science Advances</i> , 2016 , 2, e1600495	14.3	63
384	Pore-structure-mediated hierarchical SAPO-34: Facile synthesis, tunable nanostructure, and catalysis applications for the conversion of dimethyl ether into olefins. <i>Particuology</i> , 2013 , 11, 468-474	2.8	63
383	Methanol Synthesis from CO2 Hydrogenation with a Cu/Zn/Al/Zr Fibrous Catalyst. <i>Chinese Journal of Chemical Engineering</i> , 2009 , 17, 88-94	3.2	62
382	Exploring and Understanding the Roles of Li2Sn and the Strategies to beyond Present Li-S Batteries. <i>CheM</i> , 2020 , 6, 2533-2557	16.2	62
381	Designing solid-state interfaces on lithium-metal anodes: a review. <i>Science China Chemistry</i> , 2019 , 62, 1286-1299	7.9	61
380	Improvement of oil adsorption performance by a sponge-like natural vermiculite-carbon nanotube hybrid. <i>Applied Clay Science</i> , 2011 , 53, 1-7	5.2	61
379	Hierarchical assemblies of conjugated ultrathin COF nanosheets for high-sulfur-loading and long-lifespan lithiumBulfur batteries: Fully-exposed porphyrin matters. <i>Energy Storage Materials</i> , 2019 , 22, 40-47	19.4	61
378	Asymmetric Air Cathode Design for Enhanced Interfacial Electrocatalytic Reactions in High-Performance Zinc-Air Batteries. <i>Advanced Materials</i> , 2020 , 32, e1908488	24	60
377	High-Capacity and Kinetically Accelerated Lithium Storage in MoO3 Enabled by Oxygen Vacancies and Heterostructure. <i>Advanced Energy Materials</i> , 2021 , 11, 2101712	21.8	60
376	3D Hierarchical Porous Graphene-Based Energy Materials: Synthesis, Functionalization, and Application in Energy Storage and Conversion. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 332-371	29.3	59
375	Coordination Tunes Selectivity: Two-Electron Oxygen Reduction on High-Loading Molybdenum Single-Atom Catalysts. <i>Angewandte Chemie</i> , 2020 , 132, 9256-9261	3.6	59
374	Rechargeable Lithium Metal Batteries with an In-Built Solid-State Polymer Electrolyte and a High Voltage/Loading Ni-Rich Layered Cathode. <i>Advanced Materials</i> , 2020 , 32, e1905629	24	59
373	Towards Stable Lithium-Sulfur Batteries with a Low Self-Discharge Rate: Ion Diffusion Modulation and Anode Protection. <i>ChemSusChem</i> , 2015 , 8, 2892-901	8.3	59
372	MOF-derived hierarchical CoP nanoflakes anchored on vertically erected graphene scaffolds as self-supported and flexible hosts for lithiumBulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3027-3034	13	58

(2020-2016)

371	Can metallitrogentarbon catalysts satisfy oxygen electrochemistry?. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4998-5001	13	58
370	Dictating High-Capacity LithiumBulfur Batteries through Redox-Mediated Lithium Sulfide Growth. <i>Small Methods</i> , 2020 , 4, 1900344	12.8	58
369	Identifying the Critical Anion-Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4215-4220	1 ^{6.4}	58
368	Precise anionic regulation of NiFe hydroxysulfide assisted by electrochemical reactions for efficient electrocatalysis. <i>Energy and Environmental Science</i> , 2020 , 13, 1711-1716	35.4	57
367	Dramatic enhancements in toughness of polyimide nanocomposite via long-CNT-induced long-range creep. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7050		57
366	Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium-Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10732-10745	16.4	56
365	Recent progress on biomass-derived ecomaterials toward advanced rechargeable lithium batteries. <i>EcoMat</i> , 2020 , 2, e12019	9.4	55
364	Guestflost modulation of multi-metallic (oxy)hydroxides for superb water oxidation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3210-3216	13	55
363	A E □ 0.63 V Bifunctional Oxygen Electrocatalyst Enables High-Rate and Long-Cycling Zinc-Air Batteries. <i>Advanced Materials</i> , 2021 , 33, e2008606	24	55
362	Resilient aligned carbon nanotube/graphene sandwiches for robust mechanical energy storage. <i>Nano Energy</i> , 2014 , 7, 161-169	17.1	54
361	Optical visualization of individual ultralong carbon nanotubes by chemical vapour deposition of titanium dioxide nanoparticles. <i>Nature Communications</i> , 2013 , 4, 1727	17.4	54
3 60	Template growth of nitrogen-doped mesoporous graphene on metal oxides and its use as a metal-free bifunctional electrocatalyst for oxygen reduction and evolution reactions. <i>Catalysis Today</i> , 2018 , 301, 25-31	5.3	53
359	Lithium-Sulfur Batteries: Dendrite-Free Nanostructured Anode: Entrapment of Lithium in a 3D Fibrous Matrix for Ultra-Stable LithiumBulfur Batteries (Small 21/2014). <i>Small</i> , 2014 , 10, 4222-4222	11	53
358	Shielding Polysulfide Intermediates by an Organosulfur-Containing Solid Electrolyte Interphase on the Lithium Anode in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e2003012	24	53
357	Atomic Insights into the Fundamental Interactions in Lithium Battery Electrolytes. <i>Accounts of Chemical Research</i> , 2020 , 53, 1992-2002	24.3	53
356	Dry spinning yarns from vertically aligned carbon nanotube arrays produced by an improved floating catalyst chemical vapor deposition method. <i>Carbon</i> , 2010 , 48, 2855-2861	10.4	52
355	Advanced metal sulfide anode for potassium ion batteries. <i>Journal of Energy Chemistry</i> , 2018 , 27, 373-37	74 2	52
354	Rapid Lithium Diffusion in Order@Disorder Pathways for Fast-Charging Graphite Anodes. <i>Small Structures</i> , 2020 , 1, 2000010	8.7	51

353	Uniform Lithium Nucleation Guided by Atomically Dispersed Lithiophilic CoNx Sites for Safe Lithium Metal Batteries. <i>Small Methods</i> , 2019 , 3, 1800354	12.8	51
352	Lithium Bond Chemistry in LithiumBulfur Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 8290-8294	3.6	50
351	Hydrophilic non-precious metal nitrogen-doped carbon electrocatalysts for enhanced efficiency in oxygen reduction reaction. <i>Chemical Communications</i> , 2015 , 51, 17285-8	5.8	50
350	A pointlinepointlybrid electrocatalyst for bi-functional catalysis of oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3379-3385	13	50
349	Synthesis of graphene from asphaltene molecules adsorbed on vermiculite layers. <i>Carbon</i> , 2013 , 62, 21,	3=224	50
348	Ion-Solvent Chemistry-Inspired Cation-Additive Strategy to Stabilize Electrolytes for Sodium-Metal Batteries. <i>CheM</i> , 2020 , 6, 2242-2256	16.2	49
347	CNTs@S composite as cathode for all-solid-state lithium-sulfur batteries with ultralong cycle life. <i>Journal of Energy Chemistry</i> , 2020 , 40, 151-155	12	49
346	Regulation of carbon distribution to construct high-sulfur-content cathode in lithiumBulfur batteries. <i>Journal of Energy Chemistry</i> , 2021 , 56, 203-208	12	49
345	Safe Lithium-Metal Anodes for LiD2 Batteries: From Fundamental Chemistry to Advanced Characterization and Effective Protection. <i>Batteries and Supercaps</i> , 2019 , 2, 638-658	5.6	48
344	Calendering of free-standing electrode for lithium-sulfur batteries with high volumetric energy density. <i>Carbon</i> , 2017 , 111, 493-501	10.4	48
343	Hierarchical agglomerates of carbon nanotubes as high-pressure cushions. <i>Nano Letters</i> , 2008 , 8, 1323-	711.5	48
342	Core-branch CoNi hydroxysulfides with versatilely regulated electronic and surface structures for superior oxygen evolution electrocatalysis. <i>Journal of Energy Chemistry</i> , 2019 , 38, 8-14	12	48
341	From Supramolecular Species to Self-Templated Porous Carbon and Metal-Doped Carbon for Oxygen Reduction Reaction Catalysts. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4963-4967	16.4	47
340	Towards superior oxygen evolution through graphene barriers between metal substrates and hydroxide catalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16183-16189	13	47
339	A Mixed Ether Electrolyte for Lithium Metal Anode Protection in Working LithiumBulfur Batteries. <i>Energy and Environmental Materials</i> , 2020 , 3, 160-165	13	47
338	Commencing an Acidic Battery Based on a Copper Anode with Ultrafast Proton-Regulated Kinetics and Superior Dendrite-Free Property. <i>Advanced Materials</i> , 2019 , 31, e1905873	24	46
337	Octahedral Co3O4 particles threaded by carbon nanotube arrays as integrated structure anodes for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5582-7	3.6	46
336	Seawater electrolyte-based metallir batteries: from strategies to applications. <i>Energy and Environmental Science</i> , 2020 , 13, 3253-3268	35.4	46

335	The oxidation of heavy oil: Thermogravimetric analysis and non-isothermal kinetics using the distributed activation energy model. <i>Fuel Processing Technology</i> , 2014 , 119, 146-150	7.2	45	
334	Oxygenophilic ionic liquids promote the oxygen reduction reaction in Pt-free carbon electrocatalysts. <i>Materials Horizons</i> , 2017 , 4, 895-899	14.4	45	
333	Promoting the sulfur redox kinetics by mixed organodiselenides in high-energy-density lithiumBulfur batteries. <i>EScience</i> , 2021 , 1, 44-44		45	
332	One-Pot Synthesis of Framework Porphyrin Materials and Their Applications in Bifunctional Oxygen Electrocatalysis. <i>Advanced Functional Materials</i> , 2019 , 29, 1901301	15.6	44	
331	Biaxially stretchable supercapacitors based on the buckled hybrid fiber electrode array. <i>Nanoscale</i> , 2015 , 7, 12492-7	7.7	44	
330	A Coaxial-Interweaved Hybrid Lithium Metal Anode for Long-Lifespan Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1901932	21.8	44	
329	Ionothermal confined self-organization for hierarchical porous magnesium borate superstructures as highly efficient adsorbents for dye removal. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19167-19179	13	44	
328	How Does External Pressure Shape Li Dendrites in Li Metal Batteries?. <i>Advanced Energy Materials</i> , 2021 , 11, 2003416	21.8	44	
327	Process intensification by CO2 for high quality carbon nanotube forest growth: Double-walled carbon nanotube convexity or single-walled carbon nanotube bowls?. <i>Nano Research</i> , 2009 , 2, 872-881	10	43	
326	Hierarchical Carbon Nanotube/Carbon Black Scaffolds as Short- and Long-Range Electron Pathways with Superior Li-Ion Storage Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 200-206	8.3	42	
325	Robust growth of herringbone carbon nanofibers on layered double hydroxide derived catalysts and their applications as anodes for Li-ion batteries. <i>Carbon</i> , 2013 , 62, 393-404	10.4	42	
324	Improved interfacial electronic contacts powering high sulfur utilization in all-solid-state lithiumBulfur batteries. <i>Energy Storage Materials</i> , 2020 , 25, 436-442	19.4	42	
323	Effective thermal conductivity of carbon nanotube-based nanofluid. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 55, 76-81	5.3	41	
322	Oil sorption and recovery by using vertically aligned carbon nanotubes. <i>Carbon</i> , 2010 , 48, 4197-4200	10.4	41	
321	Liquefied petroleum gas containing sulfur as the carbon source for carbon nanotube forests. <i>Carbon</i> , 2008 , 46, 291-296	10.4	41	
320	Interface enhanced well-dispersed Co9S8 nanocrystals as an efficient polysulfide host in lithiumBulfur batteries. <i>Journal of Energy Chemistry</i> , 2020 , 48, 109-115	12	41	
319	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N4 Catalytic Site:A Superior Trifunctional Catalyst for Overall Water Splitting and ZnAir Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 8750-8754	3.6	40	
318	Axial compressive Fe2O3 microdisks prepared from CSS template for potential anode materials of lithium ion batteries. <i>Nano Energy</i> , 2013 , 2, 1010-1018	17.1	40	

317	Optical visualization and polarized light absorption of the single-wall carbon nanotube to verify intrinsic thermal applications. <i>Light: Science and Applications</i> , 2015 , 4, e318-e318	16.7	40
316	Fluidized-bed CVD of unstacked double-layer templated graphene and its application in supercapacitors. <i>AICHE Journal</i> , 2015 , 61, 747-755	3.6	40
315	Self-organization of nitrogen-doped carbon nanotubes into double-helix structures. <i>Carbon</i> , 2012 , 50, 5323-5330	10.4	40
314	A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions. <i>Angewandte Chemie</i> , 2020 , 132, 3278-3283	3.6	40
313	The origin of sulfuryl-containing components in SEI from sulfate additives for stable cycling of ultrathin lithium metal anodes. <i>Journal of Energy Chemistry</i> , 2020 , 47, 128-131	12	40
312	Challenges and promises of lithium metal anode by soluble polysulfides in practical lithiumBulfur batteries. <i>Materials Today</i> , 2021 , 45, 62-76	21.8	40
311	Advanced Electrode Materials in Lithium Batteries: Retrospect and Prospect. <i>Energy Material Advances</i> , 2021 , 2021, 1-15	1	40
310	Nitrogen-doped herringbone carbon nanofibers with large lattice spacings and abundant edges: Catalytic growth and their applications in lithium ion batteries and oxygen reduction reactions. <i>Catalysis Today</i> , 2015 , 249, 244-251	5.3	39
309	Lithium Bonds in Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 11192-11195	16.4	39
308	Preparation of biodiesel using s-MWCNT catalysts and the coupling of reaction and separation. <i>Food and Bioproducts Processing</i> , 2009 , 87, 164-170	4.9	39
307	Review on the nanoparticle fluidization science and technology. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 9-22	3.2	38
306	A General Electrode Design Strategy for Flexible Fiber Micro-Pseudocapacitors Combining Ultrahigh Energy and Power Delivery. <i>Advanced Science</i> , 2017 , 4, 1700003	13.6	38
305	A review of graphene-based 3D van der Waals hybrids and their energy applications. <i>Nano Today</i> , 2019 , 25, 27-37	17.9	38
304	Columnar Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2017 , 129, 14395-14399	3.6	38
303	Hierarchical nanostructured composite cathode with carbon nanotubes as conductive scaffold for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2013 , 22, 341-346	12	38
302	Synthesis of High-Quality, Double-Walled Carbon Nanotubes in a Fluidized Bed Reactor. <i>Chemical Engineering and Technology</i> , 2009 , 32, 73-79	2	38
301	Chemically derived graphenethetal oxide hybrids as electrodes for electrochemical energy storage: pre-graphenization or post-graphenization?. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13947		37
300	Carbon nanotube films change Poisson ratios from negative to positive. <i>Applied Physics Letters</i> , 2010 , 97, 061909	3.4	37

(2021-2021)

299	Electrolyte Structure of Lithium Polysulfides with Anti-Reductive Solvent Shells for Practical Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15503-15509	16.4	37	
298	Toward the Scale-Up of Solid-State Lithium Metal Batteries: The Gaps between Lab-Level Cells and Practical Large-Format Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2002360	21.8	37	
297	Recent advances in energy chemistry of precious-metal-free catalysts for oxygen electrocatalysis. <i>Chinese Chemical Letters</i> , 2018 , 29, 1757-1767	8.1	37	
296	Two-dimensional vermiculite separator for lithium sulfur batteries. <i>Chinese Chemical Letters</i> , 2017 , 28, 2235-2238	8.1	36	
295	Space confinement and rotation stress induced self-organization of double-helix nanostructure: a nanotube twist with a moving catalyst head. <i>ACS Nano</i> , 2012 , 6, 4520-9	16.7	35	
294	Coupled process of plastics pyrolysis and chemical vapor deposition for controllable synthesis of vertically aligned carbon nanotube arrays. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 533-540	2.6	35	
293	Emerging interfacial chemistry of graphite anodes in lithium-ion batteries. <i>Chemical Communications</i> , 2020 , 56, 14570-14584	5.8	35	
292	Design and operando/in situ characterization of precious-metal-free electrocatalysts for alkaline water splitting 2020 , 2, 582-613		35	
291	New insights into the adsorption behavior and mechanism of alginic acid onto struvite crystals. <i>Chemical Engineering Journal</i> , 2019 , 358, 1074-1082	14.7	35	
2 90	Regulating Interfacial Chemistry in Lithium-Ion Batteries by a Weakly Solvating Electrolyte**. <i>Angewandte Chemie</i> , 2021 , 133, 4136-4143	3.6	35	
289	Covalent Organic Frameworks Construct Precise Lithiophilic Sites for Uniform Lithium Deposition. <i>Matter</i> , 2021 , 4, 253-264	12.7	35	
288	Hard Carbon Anodes for Next-Generation Li-Ion Batteries: Review and Perspective. <i>Advanced Energy Materials</i> , 2021 , 11, 2101650	21.8	35	
287	Multiscale Construction of Bifunctional Electrocatalysts for Long-Lifespan Rechargeable ZincAir Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2003619	15.6	34	
286	Monodisperse embedded nanoparticles derived from an atomic metal-dispersed precursor of layered double hydroxide for architectured carbon nanotube formation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1686	13	34	
285	Metal/nanocarbon layer current collectors enhanced energy efficiency in lithium-sulfur batteries. <i>Science Bulletin</i> , 2017 , 62, 1267-1274	10.6	34	
284	Enhanced Stability of Immobilized Platinum Nanoparticles through Nitrogen Heteroatoms on Doped Carbon Supports. <i>Chemistry of Materials</i> , 2017 , 29, 8670-8678	9.6	34	
283	Activating Inert Metallic Compounds for High-Rate LithiumBulfur Batteries Through In Situ Etching of Extrinsic Metal. <i>Angewandte Chemie</i> , 2019 , 131, 3819-3823	3.6	34	
282	Fibrous Materials for Flexible Li B Battery. <i>Advanced Energy Materials</i> , 2021 , 11, 2002580	21.8	34	

281	Graphene-based Fe-coordinated framework porphyrin as an interlayer for lithium Bulfur batteries. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 615-619	7.8	33
280	Analyzing Energy Materials by Cryogenic Electron Microscopy. <i>Advanced Materials</i> , 2020 , 32, e1908293	24	33
279	The release of free standing vertically-aligned carbon nanotube arrays from a substrate using CO2 oxidation. <i>Carbon</i> , 2010 , 48, 1441-1450	10.4	33
278	Flux-Assisted Thermal Conversion Route to Pore-Free High Crystallinity Magnesium Borate Nanowhiskers at a Relatively Low Temperature. <i>Crystal Growth and Design</i> , 2008 , 8, 2938-2945	3.5	33
277	Effect of the reaction atmosphere on the diameter of single-walled carbon nanotubes produced by chemical vapor deposition. <i>Carbon</i> , 2006 , 44, 1706-1712	10.4	33
276	Semi-Immobilized Molecular Electrocatalysts for High-Performance Lithium-Sulfur Batteries. Journal of the American Chemical Society, 2021 , 143, 19865-19872	16.4	33
275	New insights into Bead lithium during stripping in lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2021 , 62, 289-294	12	33
274	Sodiophilicity/potassiophilicity chemistry in sodium/potassium metal anodes. <i>Journal of Energy Chemistry</i> , 2020 , 51, 1-6	12	32
273	Multifunctional nitrogen-rich Brick-and-mortarlarbon as high performance supercapacitor electrodes and oxygen reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11061	13	32
272	Ultrafine ferroferric oxide nanoparticles embedded into mesoporous carbon nanotubes for lithium ion batteries. <i>Scientific Reports</i> , 2015 , 5, 17553	4.9	32
271	Efficient synthesis of aligned nitrogen-doped carbon nanotubes in a fluidized-bed reactor. <i>Catalysis Today</i> , 2012 , 186, 83-92	5.3	32
270	Modulating the diameter of carbon nanotubes in array form via floating catalyst chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 94, 853-860	2.6	32
269	The effect of phase separation in Fe/Mg/Al/O catalysts on the synthesis of DWCNTs from methane. <i>Carbon</i> , 2007 , 45, 1645-1650	10.4	32
268	Emerging double helical nanostructures. <i>Nanoscale</i> , 2014 , 6, 9339-54	7.7	31
267	A review of the large-scale production of carbon nanotubes: The practice of nanoscale process engineering. <i>Science Bulletin</i> , 2012 , 57, 157-166		31
266	Hydrothermal evolution, optical and electrochemical properties of hierarchical porous hematite nanoarchitectures. <i>Nanoscale Research Letters</i> , 2013 , 8, 2	5	31
265	The Origin of the Reduced Reductive Stability of IonBolvent Complexes on Alkali and Alkaline Earth Metal Anodes. <i>Angewandte Chemie</i> , 2018 , 130, 16885-16889	3.6	31
264	Thermally Stable and Nonflammable Electrolytes for Lithium Metal Batteries: Progress and Perspectives. <i>Small Science</i> , 2021 , 1, 2100058		31

(2020-2019)

263	Transition metal coordinated framework porphyrin for electrocatalytic oxygen reduction. <i>Chinese Chemical Letters</i> , 2019 , 30, 911-914	8.1	30
262	Sulfur-Embedded FeS as a High-Performance Cathode for Room Temperature All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & District Research</i> , 12, 18519-18525	9.5	30
261	Design of Hierarchically Porous Carbons with Interlinked Hydrophilic and Hydrophobic Surface and Their Capacitive Behavior. <i>Chemistry of Materials</i> , 2016 , 28, 8715-8725	9.6	30
260	Monodisperse porous pod-like hematite: Hydrothermal formation, optical absorbance, and magnetic properties. <i>Materials Letters</i> , 2011 , 65, 1003-1006	3.3	30
259	Towards ultra-stable lithium metal batteries: Interfacial ionic flux regulated through LiAl LDH-modified polypropylene separator. <i>Chemical Engineering Journal</i> , 2020 , 395, 125187	14.7	29
258	Structural rearrangements of Ru nanoparticles supported on carbon nanotubes under microwave irradiation. <i>Chemical Communications</i> , 2011 , 47, 10716-8	5.8	29
257	Synthesis of high quality single-walled carbon nanotubes on natural sepiolite and their use for phenol absorption. <i>Carbon</i> , 2011 , 49, 1568-1580	10.4	29
256	In situ growth of carbon nanotubes on inorganic fibers with different surface properties. <i>Materials Chemistry and Physics</i> , 2008 , 107, 317-321	4.4	29
255	Morphology preservation and crystallinity improvement in the thermal conversion of the hydrothermal synthesized MgBO2(OH) nanowhiskers to Mg2B2O5 nanowhiskers. <i>Journal of Crystal Growth</i> , 2008 , 310, 4262-4267	1.6	29
254	The confined growth of double-walled carbon nanotubes in porous catalysts by chemical vapor deposition. <i>Carbon</i> , 2008 , 46, 1860-1868	10.4	29
253	The Boundary of Lithium Plating in Graphite Electrode for Safe Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13007-13012	16.4	29
252	Interwall Friction and Sliding Behavior of Centimeters Long Double-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2016 , 16, 1367-74	11.5	28
251	A two-step shearing strategy to disperse long carbon nanotubes from vertically aligned multiwalled carbon nanotube arrays for transparent conductive films. <i>Langmuir</i> , 2010 , 26, 2798-804	4	28
250	Nucleation and Growth Mechanism of Anion-Derived Solid Electrolyte Interphase in Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8521-8525	16.4	28
249	Carbon materials for traffic power battery. ETransportation, 2019, 2, 100033	12.7	28
248	Air Injection for Enhanced Oil Recovery: In Situ Monitoring the Low-Temperature Oxidation of Oil through Thermogravimetry/Differential Scanning Calorimetry and Pressure Differential Scanning Calorimetry. <i>Industrial & Differential Scanning Chemistry Research</i> , 2015 , 54, 6634-6640	3.9	27
247	Temperature effect on the substrate selectivity of carbon nanotube growth in floating chemical vapor deposition. <i>Nanotechnology</i> , 2007 , 18, 415703	3.4	27
246	Crosstalk shielding of transition metal ions for long cycling lithium thetal batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4283-4289	13	27

245	A Pressure Self-Adaptable Route for Uniform Lithium Plating and Stripping in Composite Anode. <i>Advanced Functional Materials</i> , 2021 , 31, 2004189	15.6	27
244	Redox mediator assists electron transfer in lithium ulfur batteries with sulfurized polyacrylonitrile cathodes. <i>EcoMat</i> , 2021 , 3, e12066	9.4	27
243	Slurry-Coated Sulfur/Sulfide Cathode with Li Metal Anode for All-Solid-State Lithium-Sulfur Pouch Cells. <i>Batteries and Supercaps</i> , 2020 , 3, 596-603	5.6	26
242	Spatial and Kinetic Regulation of Sulfur Electrochemistry on Semi-Immobilized Redox Mediators in Working Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17670-17675	16.4	26
241	Freestanding Non-Precious Metal Electrocatalysts for Oxygen Evolution and Reduction Reactions. <i>ChemElectroChem</i> , 2018 , 5, 1786-1804	4.3	26
240	The oxidation of heavy oil to enhance oil recovery: The numerical model and the criteria to describe the low and high temperature oxidation. <i>Chemical Engineering Journal</i> , 2014 , 248, 422-429	14.7	26
239	Enhanced Activation and Decomposition of CH4 by the Addition of C2H4 or C2H2 for Hydrogen and Carbon Nanotube Production. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7588-7593	3.8	26
238	Unlocking the Failure Mechanism of Solid State Lithium Metal Batteries. Advanced Energy Materials,210	00748	26
237	Intrinsische elektrokatalytische Aktivit E ssteuerung von M-N-C-Einzelatom-Katalysatoren f E die Sauerstoffreduktionsreaktion. <i>Angewandte Chemie</i> , 2021 , 133, 4496-4512	3.6	26
236	An Atomic Insight into the Chemical Origin and Variation of the Dielectric Constant in Liquid Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21473-21478	16.4	26
235	A DiffusionReaction Competition Mechanism to Tailor Lithium Deposition for Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 7817-7821	3.6	25
234	Enhanced electrochemical capacitance and oil-absorbability of N-doped graphene aerogel by using amino-functionalized silica as template and doping agent. <i>Journal of Power Sources</i> , 2018 , 379, 240-248	8.9	25
233	The reason for the low density of horizontally aligned ultralong carbon nanotube arrays. <i>Carbon</i> , 2013 , 52, 232-238	10.4	25
232	In Situ Monitoring the Role of Working Metal Catalyst Nanoparticles for Ultrahigh Purity Single-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2013 , 23, 5066-5073	15.6	25
231	Stretchable single-walled carbon nanotube double helices derived from molybdenum-containing layered double hydroxides. <i>Carbon</i> , 2011 , 49, 2148-2152	10.4	25
230	Hydrothermal mass production of MgBO2(OH) nanowhiskers and subsequent thermal conversion to Mg2B2O5 nanorods for biaxially oriented polypropylene resins reinforcement. <i>Powder Technology</i> , 2010 , 203, 265-271	5.2	25
229	Large scale production of carbon nanotube arrays on the sphere surface from liquefied petroleum gas at low cost. <i>Science Bulletin</i> , 2007 , 52, 2896-2902		25
228	Direct Synthesis of a Fluidizable SAPO-34 Catalyst for a Fluidized Dimethyl Ether-to-Olefins Process. <i>Catalysis Letters</i> , 2008 , 124, 297-303	2.8	25

(2013-2020)

227	Direct Intermediate Regulation Enabled by Sulfur Containers in Working Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2020 , 59, 22150-22155	16.4	25
226	The Radical Pathway Based on a Lithium-Metal-Compatible High-Dielectric Electrolyte for LithiumBulfur Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 16974-16978	3.6	25
225	Paper-based porous graphene/single-walled carbon nanotubes supported Pt nanoparticles as freestanding catalyst for electro-oxidation of methanol. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117886	21.8	24
224	Carbon-Based Electrocatalysts: Atomic Modulation and Structure Design of Carbons for Bifunctional Electrocatalysis in MetalAir Batteries (Adv. Mater. 13/2019). <i>Advanced Materials</i> , 2019 , 31, 1970095	24	24
223	Dendrite-free sandwiched ultrathin lithium metal anode with even lithium plating and stripping behavior. <i>Nano Research</i> , 2019 , 12, 2224-2229	10	24
222	Nonuniform Redistribution of Sulfur and Lithium upon Cycling: Probing the Origin of Capacity Fading in LithiumBulfur Pouch Cells. <i>Energy Technology</i> , 2019 , 7, 1900111	3.5	24
221	CNTs in situ attached to #Fe2O3 submicron spheres for enhancing lithium storage capacity. <i>ACS Applied Materials & District Materials &</i>	9.5	24
220	Interfacial redox behaviors of sulfide electrolytes in fast-charging all-solid-state lithium metal batteries. <i>Energy Storage Materials</i> , 2020 , 31, 267-273	19.4	24
219	Unexpected highly reversible topotactic CO2 sorption/desorption capacity for potassium dititanate. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12889-12896	13	24
218	The nanostructure preservation of 3D porous graphene: New insights into the graphitization and surface chemistry of non-stacked double-layer templated graphene after high-temperature treatment. <i>Carbon</i> , 2016 , 103, 36-44	10.4	24
217	Flux and surfactant directed facile thermal conversion synthesis of hierarchical porous MgO for efficient adsorption and catalytic growth of carbon nanotubes. <i>CrystEngComm</i> , 2014 , 16, 308-318	3.3	24
216	Review on Advanced Functional Separators for Lithium-Sulfur Batteries. <i>Acta Chimica Sinica</i> , 2017 , 75, 173	3.3	24
215	Construction of a cathode using amorphous FePO 4 nanoparticles for a high-power/energy-density lithium-ion battery with long-term stability. <i>Journal of Power Sources</i> , 2016 , 324, 52-60	8.9	24
214	Three-dimensional matrix for lithium metal anode for next-generation rechargeable batteries: Structure design and interface engineering. <i>Journal of Energy Chemistry</i> , 2019 , 33, 167-168	12	24
213	Stable Anion-Derived Solid Electrolyte Interphase in Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22683-22687	16.4	24
212	Cycling a Lithium Metal Anode at 90 LC in a Liquid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15109-15113	16.4	23
211	HydrothermalEhermal conversion synthesis of hierarchical porous MgO microrods as efficient adsorbents for lead(II) and chromium(VI) removal. <i>RSC Advances</i> , 2014 , 4, 30542-30550	3.7	23
210	Direct writing on graphene 'paper' by manipulating electrons as 'invisible ink'. <i>Nanotechnology</i> , 2013 , 24, 275301	3.4	23

209	Fluffy carbon nanotubes produced by shearing vertically aligned carbon nanotube arrays. <i>Carbon</i> , 2009 , 47, 538-541	10.4	23
208	Favorable Lithium Nucleation on Lithiophilic Framework Porphyrin for Dendrite-Free Lithium Metal Anodes. <i>Research</i> , 2019 , 2019, 1-11	7.8	23
207	The carrier transition from Li atoms to Li vacancies in solid-state lithium alloy anodes. <i>Science Advances</i> , 2021 , 7, eabi5520	14.3	23
206	Evaluation on a 400 Wh kgll lithium ulfur pouch cell. Journal of Energy Chemistry, 2022, 66, 24-29	12	23
205	Validation of surface coating with nanoparticles to improve the flowability of fine cohesive powders. <i>Particuology</i> , 2017 , 30, 53-61	2.8	22
204	Mesoporous Graphene Hosts for Dendrite-Free Lithium Metal Anode in Working Rechargeable Batteries. <i>Transactions of Tianjin University</i> , 2020 , 26, 127-134	2.9	22
203	IonBolvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode. <i>Angewandte Chemie</i> , 2018 , 130, 742-745	3.6	22
202	Favorable Lithium Nucleation on Lithiophilic Framework Porphyrin for Dendrite-Free Lithium Metal Anodes. <i>Research</i> , 2019 , 2019, 4608940	7.8	22
201	A Self-Limited Free-Standing Sulfide Electrolyte Thin Film for All-Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101985	15.6	22
200	Synergetic Coupling of Lithiophilic Sites and Conductive Scaffolds for Dendrite-Free Lithium Metal Anodes. <i>Small Methods</i> , 2020 , 4, 1900177	12.8	22
199	Hierarchical porous Ca(BO2)2 microspheres: Hydrothermalthermal conversion synthesis and their applications in heavy metal ions adsorption and solvent-free oxidation of benzyl alcohol. <i>Chemical Engineering Journal</i> , 2016 , 283, 1273-1284	14.7	21
198	Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. <i>Angewandte Chemie</i> , 2020 , 132, 9096-9102	3.6	21
197	Large area growth of aligned CNT arrays on spheres: Cost performance and product control. <i>Materials Letters</i> , 2009 , 63, 84-87	3.3	21
196	Selective Permeable Lithium-Ion Channels on Lithium Metal for Practical Lithium-Sulfur Pouch Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18031-18036	16.4	21
195	Inhibiting Solvent Co-Intercalation in a Graphite Anode by a Localized High-Concentration Electrolyte in Fast-Charging Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 3444-3448	3.6	21
194	Advanced electrode processing of lithium ion batteries: A review of powder technology in battery fabrication. <i>Particuology</i> , 2021 , 57, 56-71	2.8	21
193	Studies on the Preliminary Cracking of Heavy Oils: The Effect of Matrix Acidity and a Proposal of a New Reaction Route. <i>Energy & Discourse States St</i>	4.1	20
192	Adaptive formed dual-phase interface for highly durable lithium metal anode in lithium lithium batteries. <i>Energy Storage Materials</i> , 2020 , 28, 350-356	19.4	20

(2012-2012)

191	Soft-template self-assembly of hierarchical mesoporous SrCO3 by low-temperature hydrothermal route and their application as adsorbents for methylene blue and heavy metal ions. <i>Powder Technology</i> , 2012 , 226, 165-172	5.2	20
190	Compressible aligned carbon nanotube/MnO2 as high-rate electrode materials for supercapacitors. Journal of Electroanalytical Chemistry, 2012 , 684, 32-37	4.1	20
189	Multi-walled carbon nanotube-based carbon/carbon composites with three-dimensional network structures. <i>Nanoscale</i> , 2013 , 5, 6181-6	7.7	20
188	Green co-precipitation byproduct-assisted thermal conversion route to submicron Mg2B2O5 whiskers. <i>CrystEngComm</i> , 2011 , 13, 1654-1663	3.3	20
187	Carbon-Nanotube-Array Double Helices. Angewandte Chemie, 2010, 122, 3724-3727	3.6	20
186	A Robust Ternary Heterostructured Electrocatalyst with Conformal Graphene Chainmail for Expediting Bi-Directional Sulfur Redox in Liß Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2100586	6 ^{15.6}	20
185	Assembling Carbon Pores into Carbon Sheets: Rational Design of Three-Dimensional Carbon Networks for a Lithium-Sulfur Battery. <i>ACS Applied Materials & Design of Three-Dimensional Carbon Networks for a Lithium-Sulfur Battery.</i> ACS Applied Materials & Design of Three-Dimensional Carbon Networks for a Lithium-Sulfur Battery.	9.5	20
184	The Insights of Lithium Metal Plating/Stripping in Porous Hosts: Progress and Perspectives. <i>Energy Technology</i> , 2021 , 9, 2000700	3.5	20
183	Solvent-Engineered Scalable Production of Polysulfide-Blocking Shields to Enhance Practical LithiumBulfur Batteries. <i>Small Methods</i> , 2018 , 2, 1800100	12.8	20
182	The direct dispersion of granular agglomerated carbon nanotubes in bismaleimide by high pressure homogenization for the production of strong composites. <i>Powder Technology</i> , 2012 , 217, 477-481	5.2	19
181	Sulfophile leitflige Substrate als Trigermaterialien fil Schwefelkathoden. <i>Angewandte Chemie</i> , 2015 , 127, 11170-11172	3.6	19
180	Hierarchical mesoporous SrCO3 submicron spheres derived from reaction-limited aggregation induced Eod-to-dumbbell-to-sphereßelf-assembly. <i>CrystEngComm</i> , 2010 , 12, 1795	3.3	19
179	Hierarchical Laminar Superstructures of Rhombic Priceite (Ca4B10O19I7H2O): Facile Hydrothermal Synthesis, Shape Evolution, Optical, and Thermal Decomposition Properties. <i>Crystal Growth and Design</i> , 2011 , 11, 2935-2941	3.5	19
178	Advanced materials from natural materials: synthesis of aligned carbon nanotubes on wollastonites. <i>ChemSusChem</i> , 2010 , 3, 453-9	8.3	19
177	Can Aqueous Zinc-Air Batteries Work at Sub-Zero Temperatures?. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15281-15285	16.4	19
176	Understanding the Impedance Response of Lithium Polysulfide Symmetric Cells. Small Science,2100042		19
175	A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 16441-16445	3.6	18
174	N-Methyl-2-pyrrolidone-assisted solvothermal synthesis of nanosize orthorhombic lithium iron phosphate with improved Li-storage performance. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18908		18

173	Preferential growth of short aligned, metallic-rich single-walled carbon nanotubes from perpendicular layered double hydroxide film. <i>Nanoscale</i> , 2012 , 4, 2470-7	7.7	18
172	Gel\(Ster Kohlenstoff kontrolliert die erste Phase des Nanokohlenstoffwachstums. \) Angewandte Chemie, \(2011 \), 123, 3371-3375	3.6	18
171	Synthesis of thin-walled carbon nanotubes from methane by changing the Ni/Mo ratio in a Ni/Mo/MgO catalyst. <i>New Carbon Materials</i> , 2008 , 23, 319-325	4.4	18
170	Customized casting of unstacked graphene with high surface area (>1300 m2gfl) and its application in oxygen reduction reaction. <i>Carbon</i> , 2015 , 93, 702-712	10.4	17
169	Rational recipe for bulk growth of graphene/carbon nanotube hybrids: New insights from in-situ characterization on working catalysts. <i>Carbon</i> , 2015 , 95, 292-301	10.4	17
168	Cycling a Lithium Metal Anode at 90 LC in a Liquid Electrolyte. <i>Angewandte Chemie</i> , 2020 , 132, 15221-15	52325	17
167	Short belt-like Ca2B2O5[H2O nanostructures: Hydrothermal formation, FT-IR, thermal decomposition, and optical properties. <i>Journal of Crystal Growth</i> , 2011 , 332, 81-86	1.6	17
166	Very High-Quality Single-Walled Carbon Nanotubes Grown Using a Structured and Tunable Porous Fe/MgO Catalyst. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20178-20183	3.8	17
165	Multi-Directional Growth of Aligned Carbon Nanotubes Over Catalyst Film Prepared by Atomic Layer Deposition. <i>Nanoscale Research Letters</i> , 2010 , 5, 1555-60	5	17
164	FEW WALLED CARBON NANOTUBE PRODUCTION IN LARGE-SCALE BY NANO-AGGLOMERATE FLUIDIZED-BED PROCESS. <i>Nano</i> , 2008 , 03, 45-50	1.1	17
163	Selective Synthesis of Single/Double/Multi-walled Carbon Nanotubes on MgO-Supported Fe Catalyst. <i>Chinese Journal of Catalysis</i> , 2008 , 29, 1138-1144	11.3	17
162	Gas flow-assisted alignment of super long electrospun nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2667-73	1.3	17
161	Synthesis of carbon nanotubes with totally hollow channels and/or with totally copper filled nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 86, 265-269	2.6	17
160	Cobalt Nanoparticles and Atomic Sites in Nitrogen-Doped Carbon Frameworks for Highly Sensitive Sensing of Hydrogen Peroxide. <i>Small</i> , 2020 , 16, e1902860	11	17
159	A Composite Bifunctional Oxygen Electrocatalyst for High-Performance Rechargeable Zinc-Air Batteries. <i>ChemSusChem</i> , 2020 , 13, 1529-1536	8.3	17
158	Electrolyte Regulation towards Stable Lithium-Metal Anodes in LithiumBulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. <i>Angewandte Chemie</i> , 2020 , 132, 10821-10834	3.6	17
157	Highly dispersed Mn2O3 microspheres: Facile solvothermal synthesis and their application as Li-ion battery anodes. <i>Particuology</i> , 2015 , 22, 89-94	2.8	16
156	Improving the Interfacial Stability between Lithium and Solid-State Electrolyte via Dipole-Structured Lithium Layer Deposited on Graphene Oxide. <i>Advanced Science</i> , 2020 , 7, 2000237	13.6	16

(2022-2017)

155	Unusual Mesoporous Carbonaceous Matrix Loading with Sulfur as the Cathode of Lithium Sulfur Battery with Exceptionally Stable High Rate Performance. <i>ACS Applied Materials & Description</i> 2017, 9, 28366-28376	9.5	16
154	Patterning of hydrophobic three-dimensional carbon nanotube architectures by a pattern transfer approach. <i>Nanoscale</i> , 2010 , 2, 1401-4	7.7	16
153	Facile Synthesis of Heterostructured MoS-MoO Nanosheets with Active Electrocatalytic Sites for High-Performance Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021 ,	16.7	16
152	Enhanced growth of carbon nanotube bundles in a magnetically assisted fluidized bed chemical vapor deposition. <i>Carbon</i> , 2016 , 108, 404-411	10.4	16
151	Novel hierarchical Ni/MgO catalyst for highly efficient CO methanation in a fluidized bed reactor. AICHE Journal, 2017 , 63, 2141-2152	3.6	15
150	Synthesis of three-dimensional rare-earth ions doped CNTs-GO-Fe3O4 hybrid structures using one-pot hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 82-88	5.7	15
149	Fe3O4@S nanoparticles embedded/coated on the multi-wall carbon nanotubes for rechargeable lithium batteries. <i>Chemical Engineering Journal</i> , 2018 , 333, 268-275	14.7	15
148	Controllable bulk growth of few-layer graphene/single-walled carbon nanotube hybrids containing Fe@C nanoparticles in a fluidized bed reactor. <i>Carbon</i> , 2014 , 67, 554-563	10.4	15
147	Decorated resol derived mesoporous carbon: highly ordered microstructure, rich boron incorporation, and excellent electrochemical capacitance. <i>RSC Advances</i> , 2013 , 3, 3578	3.7	15
146	Boron Doped ZIF-67@Graphene Derived Carbon Electrocatalyst for Highly Efficient Enzyme-Free Hydrogen Peroxide Biosensor. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700224	5.8	15
145	Comparison of vertically aligned carbon nanotube array intercalated production among vermiculites in fixed and fluidized bed reactors. <i>Powder Technology</i> , 2010 , 198, 285-291	5.2	15
144	Advanced electrosynthesis of hydrogen peroxide on oxidized carbon electrocatalyst. <i>Journal of Energy Chemistry</i> , 2019 , 34, 10-11	12	15
143	Polyoxovanadate-polymer hybrid electrolyte in solid state batteries. <i>Energy Storage Materials</i> , 2020 , 29, 172-181	19.4	15
142	From two-dimensional to one-dimensional structures: SiC nano-whiskers derived from graphene via a catalyst-free carbothermal reaction. <i>RSC Advances</i> , 2015 , 5, 5946-5950	3.7	14
141	Building an Air Stable and Lithium Deposition Regulable Garnet Interface from Moderate-Temperature Conversion Chemistry. <i>Angewandte Chemie</i> , 2020 , 132, 12167-12173	3.6	14
140	Green, Noncorrosive, Easy Scale-Up Hydrothermal hermal Conversion: A Feasible Solution to Mass Production of Magnesium Borate Nanowhiskers. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 836-845	8.3	14
139	Study on the FCC Process of a Novel RiserDowner Coupling Reactor (III): Industrial Trial and CFD Modeling. <i>Industrial & Downer Coupling Research</i> , 2008 , 47, 8582-8587	3.9	14
138	Dry electrode technology, the rising star in solid-state battery industrialization. <i>Matter</i> , 2022 , 5, 876-898	12.7	14

137	A clicking confinement strategy to fabricate transition metal single-atom sites for bifunctional oxygen electrocatalysis <i>Science Advances</i> , 2022 , 8, eabn5091	14.3	14
136	Few-layered mesoporous graphene for high-performance toluene adsorption and regeneration. <i>Environmental Science: Nano</i> , 2019 , 6, 3113-3122	7.1	13
135	Small Particles of Chemically-Reduced Graphene with Improved Electrochemical Capacity. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15496-15504	3.8	13
134	Chemical-structural properties of the coke produced by low temperature oxidation reactions during crude oil in-situ combustion. <i>Fuel</i> , 2017 , 207, 179-188	7.1	13
133	Mechanism understanding for stripping electrochemistry of Li metal anode. SusMat, 2021, 1, 506-536		13
132	Anode Material Options Toward 500 Wh kg Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2021 , 9, e21039	113 .6	13
131	The Defect Chemistry of Carbon Frameworks for Regulating the Lithium Nucleation and Growth Behaviors in Lithium Metal Anodes. <i>Small</i> , 2021 , 17, e2007142	11	13
130	Tuning Geometry of SWCNTs by CO2 in Floating Catalyst CVD for High-Performance Transparent Conductive Films. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801209	4.6	13
129	One-dimensional van der Waals heterostructures: Growth mechanism and handedness correlation revealed by nondestructive TEM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	13
128	A review on theoretical models for lithiumBulfur battery cathodes. <i>Informa</i> BDMaterilly, 2022 , 4,	23.1	13
127	Boosting the electrochemical performance of LiD2 batteries with DPPH redox mediator and graphene-luteolin-protected lithium anode. <i>Energy Storage Materials</i> , 2020 , 31, 373-381	19.4	12
126	Lithium Metal Anodes: Artificial Soft R igid Protective Layer for Dendrite-Free Lithium Metal Anode (Adv. Funct. Mater. 8/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870049	15.6	12
125	Fabrication of double- and multi-walled carbon nanotube transparent conductive films by filtration-transfer process and their property improvement by acid treatment. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 403-411	2.6	12
124	Substrate morphology induced self-organization into carbon nanotube arrays, ropes, and agglomerates. <i>Nanotechnology</i> , 2008 , 19, 435602	3.4	12
123	Horizontal Stress Release for Protuberance-Free Li Metal Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 2002522	15.6	12
122	A Supramolecular Electrolyte for Lithium-Metal Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 47-51	5.6	12
121	Applying Machine Learning to Rechargeable Batteries: From the Microscale to the Macroscale. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24354-24366	16.4	12
120	Quantitative kinetic analysis on oxygen reduction reaction: A perspective. <i>Nano Materials Science</i> , 2021 , 3, 313-318	10.2	12

119	Stable Anion-Derived Solid Electrolyte Interphase in Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 22865	3.6	12
118	Reclaiming Inactive Lithium with a Triiodide/Iodide Redox Couple for Practical Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22990-22995	16.4	12
117	Modification of Nitrate Ion Enables Stable Solid Electrolyte Interphase in Lithium Metal Batteries Angewandte Chemie - International Edition, 2022,	16.4	12
116	Towards Practical High-Energy-Density Lithium-Sulfur Pouch Cells: A Review <i>Advanced Materials</i> , 2022 , e2201555	24	12
115	Toward Practical All-solid-state Batteries with Sulfide Electrolyte: A Review. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 377-385	2.2	11
114	Practical fuel cells enabled by unprecedented oxygen reduction reaction on 3D nanostructured electrocatalysts. <i>Journal of Energy Chemistry</i> , 2020 , 48, 107-108	12	11
113	Facile manipulation of individual carbon nanotubes assisted by inorganic nanoparticles. <i>Nanoscale</i> , 2013 , 5, 6584-8	7.7	11
112	SAPO-34 templated growth of hierarchical porous graphene cages as electrocatalysts for both oxygen reduction and evolution. <i>New Carbon Materials</i> , 2017 , 32, 509-516	4.4	11
111	Particle Measurement Sensor for in situ determination of phase structure of fluidized bed. <i>Particuology</i> , 2009 , 7, 175-182	2.8	11
110	Interlayer material technology of manganese phosphate toward and beyond electrochemical pseudocapacitance over energy storage application. <i>Journal of Materials Science and Technology</i> , 2021 , 71, 109-128	9.1	11
109	An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie</i> , 2021 , 133, 19411-19420	3.6	11
108	Fluorinated interphases. <i>Nature Nanotechnology</i> , 2018 , 13, 623-624	28.7	10
107	Highly selective synthesis of single-walled carbon nanotubes from methane in a coupled Downer-turbulent fluidized-bed reactor. <i>Journal of Energy Chemistry</i> , 2013 , 22, 567-572	12	10
106	Repair the Pores and Preserve the Morphology: Formation of High Crystallinity 1D Nanostructures via the Thermal Conversion Route. <i>Crystal Growth and Design</i> , 2011 , 11, 709-718	3.5	10
105	SYNTHESIS OF SINGLE-WALLED CARBON NANOTUBES FROM LIQUEFIED PETROLEUM GAS. <i>Nano</i> , 2008 , 03, 95-100	1.1	10
104	Anionic vacancy-dependent activity of the CoSe2 with a tunable interfacial electronic structure on the N-doped carbon cloth for advanced LiD2 batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16636-	·1 <mark>6</mark> 648	10
103	Identifying the Critical AnionCation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface. <i>Angewandte Chemie</i> , 2021 , 133, 4261-4266	3.6	10
102	IonBolvent chemistry in lithium battery electrolytes: From mono-solvent to multi-solvent complexes. <i>Fundamental Research</i> , 2021 , 1, 393-398		10

101	Deciphering the Effect of Electrical Conductivity of Hosts on Lithium Deposition in Composite Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2021 , 11, 2101654	21.8	10
100	Polar interaction of polymer hostBolvent enables stable solid electrolyte interphase in composite lithium metal anodes. <i>Journal of Energy Chemistry</i> , 2022 , 64, 172-178	12	10
99	Glycolide additives enrich organic components in the solid electrolyte interphase enabling stable ultrathin lithium metal anodes. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2791-2797	7.8	10
98	Hybrid X-ray Spectroscopy-Based Approach To Acquire Chemical and Structural Information of Single-Walled Carbon Nanotubes with Superior Sensitivity. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6114-6120	3.8	9
97	Large scale intercalated growth of short aligned carbon nanotubes among vermiculite layers in a fluidized bed reactor. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 624-626	3.9	9
96	Carbon nanofiber microspheres obtained from ethylene using FeCl3 as the catalyst precursor. <i>Materials Letters</i> , 2008 , 62, 3149-3151	3.3	9
95	Stress Regulation on Atomic Bonding and Ionic Diffusivity: Mechanochemical Effects in Sulfide Solid Electrolytes. <i>Energy & Energy & 2021</i> , 35, 10210-10218	4.1	9
94	Lithium Bonds in Lithium Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 11288-11291	3.6	9
93	Failure Mechanism of Lithiophilic Sites in Composite Lithium Metal Anode under Practical Conditions. <i>Advanced Energy Materials</i> , 2022 , 12, 2103291	21.8	9
92	Applying Classical, , and Machine-Learning Molecular Dynamics Simulations to the Liquid Electrolyte for Rechargeable Batteries <i>Chemical Reviews</i> , 2022 ,	68.1	9
91	Anode-Free Solid-State Lithium Batteries: A Review. Advanced Energy Materials, 2201044	21.8	9
90	Atomic-Distributed Coordination State of Metal-Phenolic Compounds Enabled Low Temperature Graphitization for High-Performance Multioriented Graphite Anode. <i>Small</i> , 2020 , 16, e2003104	11	8
89	Lithium Metal Anodes: Dual-Layered Film Protected Lithium Metal Anode to Enable Dendrite-Free Lithium Deposition (Adv. Mater. 25/2018). <i>Advanced Materials</i> , 2018 , 30, 1870181	24	8
88	Constructing Conformal Interface by Semiliquid Li Metal. <i>Joule</i> , 2019 , 3, 1575-1577	27.8	8
87	Changes in Active Sites on Nitrogen-Doped Carbon Catalysts Under Oxygen Reduction Reaction: A Combined Post-Reaction Characterization and DFT Study. <i>ChemCatChem</i> , 2019 , 11, 5945-5950	5.2	8
86	Facile thermal conversion route synthesis, characterization, and optical properties of rod-like micron nickel borate. <i>Powder Technology</i> , 2012 , 222, 160-166	5.2	8
85	Interface enhancement of carbon nanotube/mesocarbon microbead isotropic composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 56, 44-50	8.4	8
84	A Successive Conversion-Deintercalation Delithiation Mechanism for Practical Composite Lithium Anodes. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	8

(2021-2020)

83	Failure mechanism of lithium metal anode under practical conditions. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 228501	0.6	8
82	High-Power Microbial Fuel Cells Based on a Carbon-Carbon Composite Air Cathode. <i>Small</i> , 2020 , 16, e1	9 05 240	0 8
81	Surface modification of Ni foam for stable and dendrite-free lithium deposition. <i>Chemical Engineering Journal</i> , 2021 , 405, 127022	14.7	8
80	Fabrication of 3D interconnected porous MXene-based PtNPs as highly efficient electrocatalysts for methanol oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 894, 115338	4.1	8
79	Controllable oxidation for oil recovery: Low temperature oxidative decomposition of heavy oil on a MnO2 catalyst. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 153-159	11.3	7
78	Very fast growth of millimeter-tall aligned carbon nanotubes between two stacked substrates coated with a metal catalyst. <i>Carbon</i> , 2011 , 49, 1395-1400	10.4	7
77	Preconstructing Asymmetric Interface in Air Cathodes for High-Performance Rechargeable Zn-Air Batteries <i>Advanced Materials</i> , 2022 , e2109407	24	7
76	Lignin-derived materials and their applications in rechargeable batteries. <i>Green Chemistry</i> ,	10	7
75	Multifunctional Selenium Vacancy Coupling with Interface Engineering Enables High-Stability Li D 2 Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6667-6674	8.3	7
74	One Stone Two Birds Design for Dual-Functional TiO 2 -TiN Heterostructures Enabled Dendrite-Free and Kinetics-Enhanced Lithium Bulfur Batteries. <i>Advanced Energy Materials</i> , 2200308	21.8	7
73	A Toolbox of Reference Electrodes for Lithium Batteries. Advanced Functional Materials, 2022, 32, 2108	3 4459 6	7
72	Surface Gelation on Disulfide Electrocatalysts in Lithium-Sulfur Batteries. <i>Angewandte Chemie -</i> International Edition, 2021 ,	16.4	7
71	The Origin of Fast Lithium-Ion Transport in the Inorganic Solid Electrolyte Interphase on Lithium Metal Anodes. <i>Small Structures</i> ,2200071	8.7	7
70	From Supramolecular Species to Self-Templated Porous Carbon and Metal-Doped Carbon for Oxygen Reduction Reaction Catalysts. <i>Angewandte Chemie</i> , 2019 , 131, 5017-5021	3.6	6
69	An emulsion phase condensation model to describe the defluidization behavior for reactions involving gas-volume reduction. <i>Chemical Engineering Journal</i> , 2012 , 198-199, 364-370	14.7	6
68	High-valence sulfur-containing species in solid electrolyte interphase stabilizes lithium metal anodes in lithiumBulfur batteries. <i>Journal of Energy Chemistry</i> , 2022 , 68, 300-305	12	6
67	Direct Intermediate Regulation Enabled by Sulfur Containers in Working LithiumBulfur Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 22334-22339	3.6	6
66	Nucleation and Growth Mechanism of Anion-Derived Solid Electrolyte Interphase in Rechargeable Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 8602-8606	3.6	6

65	The dynamic evolution of aggregated lithium dendrites in lithium metal batteries. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 37, 137-137	3.2	6
64	CationBolvent, CationAnion, and SolventBolvent Interactions with Electrolyte Solvation in Lithium batteries. <i>Batteries and Supercaps</i> , 2019 , 2, 114-114	5.6	5
63	A Leap towards Stable Li-Metal Anode Interphases. <i>Trends in Chemistry</i> , 2019 , 1, 709-710	14.8	5
62	Hierarchical strontium carbonate submicron spheres self-assembled under hydrothermal conditions. <i>Crystal Research and Technology</i> , 2010 , 45, 845-850	1.3	5
61	Multiscale understanding of high-energy cathodes in solid-state batteries: from atomic scale to macroscopic scale 2022 , 1, 012101		5
60	Lithium-ion batteries under pulsed current operation to stabilize future grids. <i>Cell Reports Physical Science</i> , 2022 , 3, 100708	6.1	5
59	Regulating Solvation Structure in Nonflammable Amide-Based Electrolytes for Long-Cycling and Safe Lithium Metal Batteries. <i>Advanced Energy Materials</i> ,2200139	21.8	5
58	Selective Permeable Lithium-Ion Channels on Lithium Metal for Practical LithiumBulfur Pouch Cells. <i>Angewandte Chemie</i> , 2021 , 133, 18179-18184	3.6	4
57	Role of Lithiophilic Metal Sites in Lithium Metal Anodes. <i>Energy & Comp.; Fuels</i> , 2021 , 35, 12746-12752	4.1	4
56	Etch-evaporation enabled defect engineering to prepare high-loading Mn single atom catalyst for Li-S battery applications. <i>Chemical Engineering Journal</i> , 2022 , 442, 136258	14.7	4
55	Spatial and Kinetic Regulation of Sulfur Electrochemistry on Semi-Immobilized Redox Mediators in Working Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 17823-17828	3.6	3
54	Macroscopic Graphene Structures: Preparation, Properties, and Applications 2014 , 291-350		3
53	Helical Nanoarchitecture 2014 , 193-230		3
52	The use of deposited nanocarbon for characterization of zeolite supported metal catalyst. <i>Microporous and Mesoporous Materials</i> , 2013 , 169, 201-206	5.3	3
51	Efficient synthesis of orthorhombic lithium borate hydroxide micro-rods and their thermal conversion to lithium borate. <i>Powder Technology</i> , 2011 , 210, 67-72	5.2	3
50	Unblocked Electron Channels Enable Efficient Contact Prelithiation for Lithium-Ion Batteries <i>Advanced Materials</i> , 2022 , e2110337	24	3
49	Usability Identification Framework and High-Throughput Screening of Two-Dimensional Materials in Lithium Ion Batteries. <i>ACS Nano</i> , 2021 , 15, 16469-16477	16.7	3
48	Seawater-based electrolyte for ZincBir batteries. <i>Green Chemical Engineering</i> , 2020 , 1, 117-123	3	3

Can Aqueous ZincAir Batteries Work at Sub-Zero Temperatures?. Angewandte Chemie, 2021, 133, 15409-4.64133 47 One stone two birds: Dual-effect kinetic regulation strategy for practical lithium ulfur batteries. 46 12 Journal of Energy Chemistry, **2022**, 65, 302-303 A perspective on energy chemistry of low-temperature lithium metal batteries 2022, 1, 72-81 45 3 Innentitelbild: Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for 44 Dendrite-Free Lithium Metal Anodes (Angew. Chem. 27/2017). Angewandte Chemie, **20**17, 129, 7790-779 \mathring{v}^6 Research progress in materials-oriented chemical engineering in China. Reviews in Chemical 2 43 5 Engineering, **2019**, 35, 917-927 Facile Counting of Ligands Capped on Nanoparticles via a Titration Chip of Moving Reaction 7.8 42 2 Boundary Electrophoresis. Analytical Chemistry, 2019, 91, 7500-7504 Titelbild: Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions 3.6 41 2 in Nonagueous Electrolytes (Angew. Chem. 19/2018). Angewandte Chemie, 2018, 130, 5275-5275 40 Flexible Electrodes for Lithium Bulfur Batteries 2018, 155-181 Inspirations from Chinese Ancient Wisdom: Strategies toward Stable Interfaces in Batteries. Matter, 12.7 2 39 **2019**, 1, 300-301 The chemical origin of temperature-dependent lithium-ion concerted diffusion in sulfide solid 38 12 electrolyte Li10GeP2S12. Journal of Energy Chemistry, 2022, Aerosol synthesis of single-walled carbon nanotubes by tuning feeding flow configuration for 37 3.5 2 transparent conducting films. Diamond and Related Materials, 2021, 108716 Manipulating the Conversion Kinetics of Polysulfides by Engineering Oxygen p-Band of Halloysite 36 11 for Improved Li-S Batteries. Small, 2021, e2105661 A generalizable, data-driven online approach to forecast capacity degradation trajectory of lithium 12 2 35 batteries. Journal of Energy Chemistry, 2022, 68, 548-555 Vanadium Nitride/Graphene Hybrid Electrode with Chemical Adsorption and Conversion of 3.8 2 34 Polysulfides. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 649-650 An Efficient and Stable Li Metal Reservoir in Spherical Carbon Granules. Wuli Huaxue Xuebao/Acta 3.8 2 33 Physico - Chimica Sinica, **2017**, 33, 1275-1276 Stable interfaces constructed by concentrated ether electrolytes to render robust lithium metal 32 3.2 batteries. Chinese Journal of Chemical Engineering, 2021, 37, 152-152 The Boundary of Lithium Plating in Graphite Electrode for Safe Lithium-Ion Batteries. Angewandte 31 3.6 2 Chemie, 2021, 133, 13117-13122 Reclaiming Inactive Lithium with a Triiodide/Iodide Redox Couple for Practical Lithium Metal 3.6 30 2 Batteries. Angewandte Chemie, 2021, 133, 23172

29	Dendrite-free lithium anode achieved under lean-electrolyte condition through the modification of separators with F-functionalized Ti3C2 nanosheets. <i>Journal of Energy Chemistry</i> , 2022 , 66, 366-373	12	2
28	Advances in carbon materials for stable lithium metal batteries. <i>New Carbon Materials</i> , 2022 , 37, 1-24	4.4	2
27	Towards High-performance Lithium-Sulfur Batteries: the Modification of Polypropylene Separator by 3D Porous Carbon Structure Embedded with Fe3C/Fe Nanoparticles. <i>Chemical Research in Chinese Universities</i> , 2022 , 38, 147-154	2.2	2
26	Full-Range Redox Mediation on Sulfur Redox Kinetics for High-Performance Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2022 , 5,	5.6	2
25	Lithium-Metal Anodes: Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries (Adv. Mater. 19/2019). <i>Advanced Materials</i> , 2019 , 31, 1970135	24	1
24	REktitelbild: Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion (Angew. Chem. 23/2020). <i>Angewandte Chemie</i> , 2020 , 132, 9278-9278	3.6	1
23	Frontispiece: Surface Gelation on Disulfide Electrocatalysts in Lithium Bulfur Batteries. Angewandte Chemie - International Edition, 2022, 61,	16.4	1
22	Emerging energy chemistry in lithium-sulfur pouch cells. <i>Science China Chemistry</i> , 2021 , 64, 337-338	7.9	1
21	Electrolyte Structure of Lithium Polysulfides with Anti-Reductive Solvent Shells for Practical LithiumBulfur Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 15631-15637	3.6	1
20	Innentitelbild: Activating Inert Metallic Compounds for High-Rate LithiumBulfur Batteries Through In Situ Etching of Extrinsic Metal (Angew. Chem. 12/2019). <i>Angewandte Chemie</i> , 2019 , 131, 3692-3692	3.6	1
19	Frontispiz: Regulating Interfacial Chemistry in Lithium-Ion Batteries by a Weakly Solvating Electrolyte. <i>Angewandte Chemie</i> , 2021 , 133,	3.6	1
18	Single-Walled Carbon Nanotube Thin Film with High Semiconducting Purity by Aerosol Etching toward Thin-Film Transistors. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9673-9679	5.6	1
17	Molecular structure adjustment enhanced anti-oxidation ability of polymer electrolyte for solid-state lithium metal battery. <i>Nano Energy</i> , 2022 , 98, 107330	17.1	1
16	Composite Lithium Anodes: A Review of Composite Lithium Metal Anode for Practical Applications (Adv. Mater. Technol. 1/2020). <i>Advanced Materials Technologies</i> , 2020 , 5, 2070002	6.8	O
15	An Atomic Insight into the Chemical Origin and Variation of the Dielectric Constant in Liquid Electrolytes. <i>Angewandte Chemie</i> , 2021 , 133, 21643-21648	3.6	О
14	Applying Machine Learning to Rechargeable Batteries: From the Microscale to the Macroscale. <i>Angewandte Chemie</i> , 2021 , 133, 24558	3.6	O
13	Advances in Precise Structure Control and Assembly toward the Carbon Nanotube Industry. <i>Advanced Functional Materials</i> , 2022 , 32, 2109401	15.6	О
12	Review on the lithium transport mechanism in solid-state battery materials. Wiley Interdisciplinary Reviews: Computational Molecular Science,	7.9	O

LIST OF PUBLICATIONS

11	REktitelbild: Columnar Lithium Metal Anodes (Angew. Chem. 45/2017). <i>Angewandte Chemie</i> , 2017 , 129, 14508-14508	3.6
10	InnenrEktitelbild: A DiffusionReaction Competition Mechanism to Tailor Lithium Deposition for Lithium-Metal Batteries (Angew. Chem. 20/2020). <i>Angewandte Chemie</i> , 2020 , 132, 8041-8041	3.6
9	InnenrEktitelbild: A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions (Angew. Chem. 8/2020). <i>Angewandte Chemie</i> , 2020 , 132, 336	3 : 53363
8	Innentitelbild: IonBolvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode (Angew. Chem. 3/2018). <i>Angewandte Chemie</i> , 2018 , 130, 606-606	3.6
7	Hierarchical Layered Double Hydroxide Materials 2014 , 231-266	
6	InnenrEktitelbild: A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries (Angew. Chem. 51/2017). <i>Angewandte Chemie</i> , 2017 , 129, 16635-16635	3.6
5	Large scale synthesis of vertical aligned CNT array on irregular quartz particles. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1081, 1	
4	A Supramolecular Electrolyte for Lithium-Metal Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 5-5	5.6
3	Rtiktitelbild: Identifying the Critical Aniontation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface (Angew. Chem. 8/2021). <i>Angewandte Chemie</i> , 2021 , 133, 4428-4428	3.6
2	Innentitelbild: The Origin of the Reduced Reductive Stability of IonBolvent Complexes on Alkali and Alkaline Earth Metal Anodes (Angew. Chem. 51/2018). <i>Angewandte Chemie</i> , 2018 , 130, 16810-16810	3.6
1	REktitelbild: Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries (Angew. Chem. 43/2018). <i>Angewandte Chemie</i> , 2018 , 130, 14488-14488	3.6