

# Zhongwei Chen

## List of Publications by Citations

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453  
papers

35,087  
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97  
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ext. papers

42,973  
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avg, IF

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#	Paper	IF	Citations
453	30 Years of Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800561	24	1694
452	A review on non-precious metal electrocatalysts for PEM fuel cells. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 3167	35.4	1495
451	Batteries and fuel cells for emerging electric vehicle markets. <i>Nature Energy</i> , <b>2018</b> , 3, 279-289	62.3	1176
450	A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1564	35.4	860
449	Electrically Rechargeable Zinc-Air Batteries: Progress, Challenges, and Perspectives. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604685	24	806
448	Supportless Pt and PtPd nanotubes as electrocatalysts for oxygen-reduction reactions. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 4060-3	16.4	720
447	Durability investigation of carbon nanotube as catalyst support for proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , <b>2006</b> , 158, 154-159	8.9	526
446	A soluble and highly conductive ionomer for high-performance hydroxide exchange membrane fuel cells. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6499-502	16.4	510
445	Silicon-Based Anodes for Lithium-Ion Batteries: From Fundamentals to Practical Applications. <i>Small</i> , <b>2018</b> , 14, 1702737	11	433
444	One-pot synthesis of a mesoporous NiCo <sub>2</sub> O <sub>4</sub> nanoplatelet and graphene hybrid and its oxygen reduction and evolution activities as an efficient bi-functional electrocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4754	13	431
443	Automotive Li-Ion Batteries: Current Status and Future Perspectives. <i>Electrochemical Energy Reviews</i> , <b>2019</b> , 2, 1-28	29.3	396
442	The application of graphene and its composites in oxygen reduction electrocatalysis: a perspective and review of recent progress. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 357-390	35.4	387
441	Highly active and durable core-corona structured bifunctional catalyst for rechargeable metal-air battery application. <i>Nano Letters</i> , <b>2012</b> , 12, 1946-52	11.5	350
440	Functionalized Graphene Oxide Nanocomposite Membrane for Low Humidity and High Temperature Proton Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20774-20781	23.8	346
439	Recent progress and perspectives on bi-functional oxygen electrocatalysts for advanced rechargeable metal-air batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7107-7134	13	337
438	High-Performance Anode Materials for Rechargeable Lithium-Ion Batteries. <i>Electrochemical Energy Reviews</i> , <b>2018</b> , 1, 35-53	29.3	334
437	Nitrogen doped carbon nanotubes and their impact on the oxygen reduction reaction in fuel cells. <i>Carbon</i> , <b>2010</b> , 48, 3057-3065	10.4	323

436	Highly Active Nitrogen-Doped Carbon Nanotubes for Oxygen Reduction Reaction in Fuel Cell Applications. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 21008-21013	3.8	322
435	Ultrathin, transparent, and flexible graphene films for supercapacitor application. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 253105	3.4	316
434	Multifunctional TiO <sub>2</sub> -C/MnO <sub>2</sub> core-double-shell nanowire arrays as high-performance 3D electrodes for lithium ion batteries. <i>Nano Letters</i> , <b>2013</b> , 13, 5467-73	11.5	305
433	Structural and chemical synergistic encapsulation of polysulfides enables ultralong-life lithium-sulfur batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2533-2538	35.4	300
432	Revisiting the Role of Polysulfides in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705590	24	291
431	New Concepts in Electrolytes. <i>Chemical Reviews</i> , <b>2020</b> , 120, 6783-6819	68.1	267
430	Nafion/Zeolite Nanocomposite Membrane by in Situ Crystallization for a Direct Methanol Fuel Cell. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 5669-5675	9.6	258
429	Free-Standing Layer-By-Layer Hybrid Thin Film of Graphene-MnO <sub>2</sub> Nanotube as Anode for Lithium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 1855-1860	6.4	251
428	Interlayer Material Selection for Lithium-Sulfur Batteries. <i>Joule</i> , <b>2019</b> , 3, 361-386	27.8	246
427	Graphene-Based Flexible Supercapacitors: Pulse-Electropolymerization of Polypyrrole on Free-Standing Graphene Films. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 17612-17620	3.8	234
426	Biologically inspired highly durable iron phthalocyanine catalysts for oxygen reduction reaction in polymer electrolyte membrane fuel cells. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 17056-8	16.4	230
425	Sulfonated Ordered Mesoporous Carbon as a Stable and Highly Active Protonic Acid Catalyst. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2395-2397	9.6	228
424	Advanced Extremely Durable 3D Bifunctional Air Electrodes for Rechargeable Zinc-Air Batteries. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301389	21.8	224
423	Pomegranate-Inspired Design of Highly Active and Durable Bifunctional Electrocatalysts for Rechargeable Metal-Air Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4977-82	16.4	218
422	Recent Progress in Electrically Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805230	24	204
421	Flexible High-Energy Polymer-Electrolyte-Based Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , <b>2015</b> , 27, 5617-22	24	200
420	Polyaniline-derived Non-Precious Catalyst for the Polymer Electrolyte Fuel Cell Cathode. <i>ECS Transactions</i> , <b>2009</b> , 16, 159-170	1	197
419	A flexible solid-state electrolyte for wide-scale integration of rechargeable zinc-air batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 663-670	35.4	194

418	Stringed Tube on cube/nanohybrids as compact cathode matrix for high-loading and lean-electrolyte lithium-sulfur batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2372-2381	35.4	193
417	A Single-Atom Iridium Heterogeneous Catalyst in Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9640-9645	16.4	186
416	Development and Simulation of Sulfur-doped Graphene Supported Platinum with Exemplary Stability and Activity Towards Oxygen Reduction. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4325-4336	15.6	184
415	Interpenetrating Triphase Cobalt-Based Nanocomposites as Efficient Bifunctional Oxygen Electrocatalysts for Long-Lasting Rechargeable Zn/Air Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702900	21.8	183
414	Carbon nanotube film by filtration as cathode catalyst support for proton-exchange membrane fuel cell. <i>Langmuir</i> , <b>2005</b> , 21, 9386-9	4	182
413	Hollow Multivoid Nanocuboids Derived from Ternary NiCoFe Prussian Blue Analog for Dual-Electrocatalysis of Oxygen and Hydrogen Evolution Reactions. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802129	15.6	180
412	Self-Assembled NiO/Ni(OH) <sub>2</sub> Nanoflakes as Active Material for High-Power and High-Energy Hybrid Rechargeable Battery. <i>Nano Letters</i> , <b>2016</b> , 16, 1794-802	11.5	175
411	Conductive Nanocrystalline Niobium Carbide as High-Efficiency Polysulfides Tamer for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704865	15.6	173
410	Orbital Interactions in Bi-Sn Bimetallic Electrocatalysts for Highly Selective Electrochemical CO <sub>2</sub> Reduction toward Formate Production. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802427	21.8	167
409	Engineering Energy Level of Metal Center: Ru Single-Atom Site for Efficient and Durable Oxygen Reduction Catalysis. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19800-19806	16.4	162
408	In Situ Polymer Graphenization Ingrained with Nanoporosity in a Nitrogenous Electrocatalyst Boosting the Performance of Polymer-Electrolyte-Membrane Fuel Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604456	24	161
407	Controllable Urchin-Like NiCo <sub>2</sub> S <sub>4</sub> Microsphere Synergized with Sulfur-Doped Graphene as Bifunctional Catalyst for Superior Rechargeable Zn/Air Battery. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706675	15.6	160
406	Chemisorption of polysulfides through redox reactions with organic molecules for lithium-sulfur batteries. <i>Nature Communications</i> , <b>2018</b> , 9, 705	17.4	159
405	Facile Hydrothermal Synthesis of VS <sub>2</sub> /Graphene Nanocomposites with Superior High-Rate Capability as Lithium-Ion Battery Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 13044-52	9.5	159
404	Flexible Rechargeable Zinc-Air Batteries through Morphological Emulation of Human Hair Array. <i>Advanced Materials</i> , <b>2016</b> , 28, 6421-8	24	154
403	A review of composite solid-state electrolytes for lithium batteries: fundamentals, key materials and advanced structures. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 8790-8839	58.5	153
402	Sulfur Atoms Bridging Few-Layered MoS <sub>2</sub> with S-Doped Graphene Enable Highly Robust Anode for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1501106	21.8	152
401	Design strategies for nonaqueous multivalent-ion and monovalent-ion battery anodes. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 276-294	73.3	151

400	Supportless Pt and PtPd Nanotubes as Electrocatalysts for Oxygen-Reduction Reactions. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 4138-4141	3.6	149
399	Pt-Ru supported on double-walled carbon nanotubes as high-performance anode catalysts for direct methanol fuel cells. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 15353-8	3.4	146
398	Oxygen Reduction on Graphene/Carbon Nanotube Composites Doped Sequentially with Nitrogen and Sulfur. <i>ACS Catalysis</i> , <b>2014</b> , 4, 2734-2740	13.1	145
397	Electrospun porous nanorod perovskite oxide/nitrogen-doped graphene composite as a bi-functional catalyst for metal air batteries. <i>Nano Energy</i> , <b>2014</b> , 10, 192-200	17.1	145
396	Manganese dioxide nanotube and nitrogen-doped carbon nanotube based composite bifunctional catalyst for rechargeable zinc-air battery. <i>Electrochimica Acta</i> , <b>2012</b> , 69, 295-300	6.7	145
395	Nitrogen-Doped Carbon Nanotubes as Platinum Catalyst Supports for Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 21982-21988	3.8	145
394	Sulfur covalently bonded graphene with large capacity and high rate for high-performance sodium-ion batteries anodes. <i>Nano Energy</i> , <b>2015</b> , 15, 746-754	17.1	144
393	3-Dimensional porous N-doped graphene foam as a non-precious catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3343-3350	13	142
392	Synergistic bifunctional catalyst design based on perovskite oxide nanoparticles and intertwined carbon nanotubes for rechargeable zinc-air battery applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 902-10	9.5	136
391	Recycling of mixed cathode lithium-ion batteries for electric vehicles: Current status and future outlook <b>2020</b> , 2, 6-43		136
390	Co-N Decorated Hierarchically Porous Graphene Aerogel for Efficient Oxygen Reduction Reaction in Acid. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6488-95	9.5	136
389	Evidence of covalent synergy in silicon-sulfur-graphene yielding highly efficient and long-life lithium-ion batteries. <i>Nature Communications</i> , <b>2015</b> , 6, 8597	17.4	133
388	Highly Active Porous Carbon-Supported Nonprecious Metal Nanoparticle Electrocatalyst for Oxygen Reduction Reaction in PEM Fuel Cells. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8048-8053	3.8	133
387	3D Porous Carbon Sheets with Multidirectional Ion Pathways for Fast and Durable Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702381	21.8	132
386	Defect Engineering of Chalcogen-Tailored Oxygen Electrocatalysts for Rechargeable Quasi-Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702526	24	131
385	Two-Dimensional Phosphorus-Doped Carbon Nanosheets with Tunable Porosity for Oxygen Reactions in Zinc-Air Batteries. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2464-2472	13.1	129
384	Strings of Porous Carbon Polyhedrons as Self-Standing Cathode Host for High-Energy-Density Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6176-6180	16.4	127
383	The Current State of Aqueous Zn-Based Rechargeable Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1665-1675	20.1	127

382	Implementing an in-situ carbon network in Si/reduced graphene oxide for high performance lithium-ion battery anodes. <i>Nano Energy</i> , <b>2016</b> , 19, 187-197	17.1	124
381	Determination of Iron Active Sites in Pyrolyzed Iron-Based Catalysts for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , <b>2012</b> , 2, 2761-2768	13.1	124
380	Isothermal synthesis of oriented zeolite AEL films and their application as corrosion-resistant coatings. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 525-8	16.4	123
379	Polyaniline nanofibre supported platinum nanoelectrocatalysts for direct methanol fuel cells. <i>Nanotechnology</i> , <b>2006</b> , 17, 5254-5259	3.4	123
378	Synergistic Engineering of Defects and Architecture in Binary Metal Chalcogenide toward Fast and Reliable Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900228	21.8	121
377	Developing high safety Li-metal anodes for future high-energy Li-metal batteries: strategies and perspectives. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 5407-5445	58.5	121
376	Low-Bandgap Se-Deficient Antimony Selenide as a Multifunctional Polysulfide Barrier toward High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904876	24	120
375	Ni-Rich/Co-Poor Layered Cathode for Automotive Li-Ion Batteries: Promises and Challenges. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903864	21.8	119
374	Nitrogen doped carbon nanotubes synthesized from aliphatic diamines for oxygen reduction reaction. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 1570-1575	6.7	119
373	3D Ordered Mesoporous Bifunctional Oxygen Catalyst for Electrically Rechargeable Zinc-Air Batteries. <i>Small</i> , <b>2016</b> , 12, 2707-14	11	117
372	Enhanced Reversible Sodium-Ion Intercalation by Synergistic Coupling of Few-Layered MoS <sub>2</sub> and S-Doped Graphene. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702562	15.6	116
371	Laminated Cross-Linked Nanocellulose/Graphene Oxide Electrolyte for Flexible Rechargeable Zinc-Air Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600476	21.8	115
370	Revealing the Rapid Electrocatalytic Behavior of Ultrafine Amorphous Defective NbO Nanocluster toward Superior Li-S Performance. <i>ACS Nano</i> , <b>2020</b> , 14, 4849-4860	16.7	111
369	Multigrain platinum nanowires consisting of oriented nanoparticles anchored on sulfur-doped graphene as a highly active and durable oxygen reduction electrocatalyst. <i>Advanced Materials</i> , <b>2015</b> , 27, 1229-34	24	106
368	Is the rapid initial performance loss of Fe/N/C non precious metal catalysts due to micropore flooding?. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 296-305	35.4	103
367	Lithium-Sulfur Batteries for Commercial Applications. <i>Chem</i> , <b>2018</b> , 4, 3-7	16.2	103
366	Engineered Si electrode nanoarchitecture: a scalable postfabrication treatment for the production of next-generation Li-ion batteries. <i>Nano Letters</i> , <b>2014</b> , 14, 277-83	11.5	103
365	Metal-organic frameworks derived platinum-cobalt bimetallic nanoparticles in nitrogen-doped hollow porous carbon capsules as a highly active and durable catalyst for oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 225, 496-503	21.8	103

364	Nitrogen-doped carbon nanotubes as air cathode catalysts in zinc-air battery. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 5080-5084	6.7	102
363	Paper-based all-solid-state flexible micro-supercapacitors with ultra-high rate and rapid frequency response capabilities. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3754-3764	13	101
362	Fundamental Understanding and Material Challenges in Rechargeable Nonaqueous LiO <sub>2</sub> Batteries: Recent Progress and Perspective. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800348	21.8	101
361	CNT-threaded N-doped porous carbon film as binder-free electrode for high-capacity supercapacitor and LiS battery. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9775-9784	13	99
360	An all-aqueous redox flow battery with unprecedented energy density. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2010-2015	35.4	99
359	Design of Highly Active Perovskite Oxides for Oxygen Evolution Reaction by Combining Experimental and ab Initio Studies. <i>ACS Catalysis</i> , <b>2015</b> , 5, 4337-4344	13.1	98
358	Dual phase Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /TiO <sub>2</sub> nanowire arrays as integrated anodes for high-rate lithium-ion batteries. <i>Nano Energy</i> , <b>2014</b> , 9, 383-391	17.1	97
357	Nitrogen-doped hollow porous carbon polyhedrons embedded with highly dispersed Pt nanoparticles as a highly efficient and stable hydrogen evolution electrocatalyst. <i>Nano Energy</i> , <b>2017</b> , 40, 88-94	17.1	96
356	Polysulfide Regulation by the Zwitterionic Barrier toward Durable Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3583-3592	16.4	95
355	Preferentially Engineering FeN Edge Sites onto Graphitic Nanosheets for Highly Active and Durable Oxygen Electrocatalysis in Rechargeable Zn-Air Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004900	24	94
354	Dynamic electrocatalyst with current-driven oxyhydroxide shell for rechargeable zinc-air battery. <i>Nature Communications</i> , <b>2020</b> , 11, 1952	17.4	93
353	Template-guided synthesis of Co nanoparticles embedded in hollow nitrogen doped carbon tubes as a highly efficient catalyst for rechargeable Zn-air batteries. <i>Nano Energy</i> , <b>2020</b> , 71, 104592	17.1	92
352	Electrocatalytic activity of nitrogen doped carbon nanotubes with different morphologies for oxygen reduction reaction. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 4799-4804	6.7	92
351	An Oxygen-Vacancy-Rich Semiconductor-Supported Bifunctional Catalyst for Efficient and Stable Zinc-Air Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806761	24	92
350	Tailoring FeN <sub>4</sub> Sites with Edge Enrichment for Boosted Oxygen Reduction Performance in Proton Exchange Membrane Fuel Cell. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803737	21.8	90
349	Gas Pickering Emulsion Templated Hollow Carbon for High Rate Performance Lithium Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8408-8417	15.6	90
348	Nanotechnology for environmentally sustainable electromobility. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 1032-1051	21.9	90
347	High Performance Hydrogen Fuel Cells with Ultralow Pt Loading Carbon Nanotube Thin Film Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 17901-17904	3.8	89

346	Molecular sieving in a nanoporous b-oriented pure-silica-zeolite MFI monocrystal film. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 4122-3	16.4	86
345	Multidimensional Ordered Bifunctional Air Electrode Enables Flash Reactants Shuttling for High-Energy Flexible Zn-Air Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900911	21.8	85
344	Hierarchical Defective Fe <sub>3</sub> -xC@C Hollow Microsphere Enables Fast and Long-Lasting Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001165	15.6	85
343	Rational design of tailored porous carbon-based materials for CO <sub>2</sub> capture. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20985-21003	13	84
342	Cationic and anionic redox in lithium-ion based batteries. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 1688-1705	58.5	84
341	Three-dimensionally ordered macro-microporous metal organic frameworks with strong sulfur immobilization and catalyzation for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , <b>2020</b> , 72, 104685	17.1	83
340	The Dual-Play of 3D Conductive Scaffold Embedded with Co, N Codoped Hollow Polyhedra toward High-Performance Li-S Full Cell. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802561	21.8	83
339	Recessed deposition of TiN into N-doped carbon as a cathode host for superior Li-S batteries performance. <i>Nano Energy</i> , <b>2018</b> , 54, 1-9	17.1	82
338	Carbon-Coated Silicon Nanowires on Carbon Fabric as Self-Supported Electrodes for Flexible Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9551-9558	9.5	81
337	Free-Standing Functionalized Graphene Oxide Solid Electrolytes in Electrochemical Gas Sensors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1729-1736	15.6	81
336	3D N-doped hybrid architectures assembled from 0D T-Nb <sub>2</sub> O <sub>5</sub> embedded in carbon microtubes toward high-rate Li-ion capacitors. <i>Nano Energy</i> , <b>2019</b> , 56, 118-126	17.1	81
335	"Ship in a Bottle" Design of Highly Efficient Bifunctional Electrocatalysts for Long-Lasting Rechargeable Zn-Air Batteries. <i>ACS Nano</i> , <b>2019</b> , 13, 7062-7072	16.7	78
334	Titanium nitride-carbon nanotube core-shell composites as effective electrocatalyst supports for low temperature fuel cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3727		78
333	Aqueous intercalation-type electrode materials for grid-level energy storage: Beyond the limits of lithium and sodium. <i>Nano Energy</i> , <b>2018</b> , 50, 229-244	17.1	78
332	Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a High-Efficiency Lithium Polysulfide Conversion Process. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 2371-2378	16.4	78
331	Perovskite-nitrogen-doped carbon nanotube composite as bifunctional catalysts for rechargeable lithium-air batteries. <i>ChemSusChem</i> , <b>2015</b> , 8, 1058-65	8.3	77
330	Oxygen Reduction Reaction Using MnO <sub>2</sub> Nanotubes/Nitrogen-Doped Exfoliated Graphene Hybrid Catalyst for Li-O <sub>2</sub> Battery Applications. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A344-A350	3.9	77
329	Synthesis and Characterization of Fe <sub>2</sub> O <sub>3</sub> for H <sub>2</sub> S Removal at Low Temperature. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 8469-8478	3.9	76



328	Platinum nanoparticles supported on stacked-cup carbon nanofibers as electrocatalysts for proton exchange membrane fuel cell. <i>Carbon</i> , <b>2010</b> , 48, 995-1003	10.4	76
327	Vertically rooting multifunctional tentacles on carbon scaffold as efficient polysulfide barrier toward superior lithium-sulfur batteries. <i>Nano Energy</i> , <b>2019</b> , 64, 103905	17.1	74
326	High durable PEK-based anion exchange membrane for elevated temperature alkaline fuel cells. <i>Journal of Membrane Science</i> , <b>2012</b> , 394-395, 193-201	9.6	74
325	Activated and nitrogen-doped exfoliated graphene as air electrodes for metal-air battery applications. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2639	13	74
324	Highly durable and active non-precious air cathode catalyst for zinc air battery. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 3673-3677	8.9	74
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190	Surface decorated cobalt sulfide as efficient catalyst for oxygen evolution reaction and its intrinsic activity. <i>Journal of Catalysis</i> , <b>2018</b> , 367, 43-52	7.3	24
189	Insights into Multiphase Reactions during Self-Discharge of Li-S Batteries. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 4518-4526	9.6	23
188	Advanced Electrode Materials Comprising of Structure-Engineered Quantum Dots for High-Performance Asymmetric Micro-Supercapacitors. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903724	21.8	23
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175	Unsaturated coordination polymer frameworks as multifunctional sulfur reservoir for fast and durable lithium-sulfur batteries. <i>Nano Energy</i> , <b>2021</b> , 79, 105393	17.1	22
174	Dissolving Vanadium into Titanium Nitride Lattice Framework for Rational Polysulfide Regulation in LiS Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003020	21.8	22
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