Shi Zhang Qiao

List of Publications by Year
in descending order

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529	114,825	78	152
papers	citations	171 h-index	325 g-index

564	564	564	60072
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design of electrocatalysts for oxygen- and hydrogen-involving energy conversion reactions. Chemical Society Reviews, 2015, 44, 2060-2086.	18.7	4,323
2	Anatase TiO2 single crystals with a large percentage of reactive facets. Nature, 2008, 453, 638-641.	13.7	3,753
3	Earth-abundant cocatalysts for semiconductor-based photocatalytic water splitting. Chemical Society Reviews, 2014, 43, 7787-7812.	18.7	2,125
4	Sulfur and Nitrogen Dualâ€Doped Mesoporous Graphene Electrocatalyst for Oxygen Reduction with Synergistically Enhanced Performance. Angewandte Chemie - International Edition, 2012, 51, 11496-11500.	7.2	1,898
5	Hydrogen evolution by a metal-free electrocatalyst. Nature Communications, 2014, 5, 3783.	5.8	1,851
6	Metalâ€“Organic Framework Derived Hybrid Co₃O₄-Carbon Porous Nanowire Arrays as Reversible Oxygen Evolution Electrodes. Journal of the American Chemical Society, 2014, 136, 13925-13931.	6.6	1,744
7	Advancing the Electrochemistry of the Hydrogenâ€Evolution Reaction through Combining Experiment and Theory. Angewandte Chemie - International Edition, 2015, 54, 52-65.	7.2	1,616
8	Graphitic carbon nitride materials: controllable synthesis and applications in fuel cells and photocatalysis. Energy and Environmental Science, 2012, 5, 6717.	15.6	1,552
9	Emerging Two-Dimensional Nanomaterials for Electrocatalysis. Chemical Reviews, 2018, 118, 6337-6408.	23.0	1,552
10	Ti3C2 MXene co-catalyst on metal sulfide photo-absorbers for enhanced visible-light photocatalytic hydrogen production. Nature Communications, 2017, 8, 13907.	5.8	1,496
11	Recent Advances in Inorganic Heterogeneous Electrocatalysts for Reduction of Carbon Dioxide. Advanced Materials, 2016, 28, 3423-3452.	11.1	1,256
12	Solvothermal Synthesis and Photoreactivity of Anatase TiO₂ Nanosheets with Dominant {001} Facets. Journal of the American Chemical Society, 2009, 131, 4078-4083.	6.6	1,237
13	Rational design of electrocatalysts and photo(electro)catalysts for nitrogen reduction to ammonia (NH₃) under ambient conditions. Energy and Environmental Science, 2018, 11, 45-56.	15.6	1,217
14	Porous P-doped graphitic carbon nitride nanosheets for synergistically enhanced visible-light photocatalytic H₂ production. Energy and Environmental Science, 2015, 8, 3708-3717.	15.6	1,146
15	Molecule-Level g-C₃N₄ Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. Journal of the American Chemical Society, 2017, 139, 3336-3339.	6.6	1,094
16	Roadmap for advanced aqueous batteries: From design of materials to applications. Science Advances, 2020, 6, eaba4098.	4.7	1,069
17	Cocatalysts in Semiconductorâ€based Photocatalytic CO₂ Reduction: Achievements, Challenges, and Opportunities. Advanced Materials, 2018, 30, 1704649.	11.1	1,034
18	The Hydrogen Evolution Reaction in Alkaline Solution: From Theory, Single Crystal Models, to Practical Electrocatalysts. Angewandte Chemie - International Edition, 2018, 57, 7568-7579.	7.2	1,018

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19	Nanoporous Graphitic-C₃N₄@Carbon Metal-Free Electrocatalysts for Highly Efficient Oxygen Reduction. Journal of the American Chemical Society, 2011, 133, 20116-20119.	6.6	958
20	Toward Design of Synergistically Active Carbon-Based Catalysts for Electrocatalytic Hydrogen Evolution. ACS Nano, 2014, 8, 5290-5296.	7.3	947
21	Origin of the Electrocatalytic Oxygen Reduction Activity of Graphene-Based Catalysts: A Roadmap to Achieve the Best Performance. Journal of the American Chemical Society, 2014, 136, 4394-4403.	6.6	946
22	Activity origin and catalyst design principles forÂelectrocatalytic hydrogen evolution on heteroatom-dopedÂgraphene. Nature Energy, 2016, 1, .	19.8	927
23	Twoâ€Step Boron and Nitrogen Doping in Graphene for Enhanced Synergistic Catalysis. Angewandte Chemie - International Edition, 2013, 52, 3110-3116.	7.2	863
24	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. Journal of the American Chemical Society, 2016, 138, 16174-16181.	6.6	852
25	Molecular-based design and emerging applications of nanoporous carbon spheres. Nature Materials, 2015, 14, 763-774.	13.3	838
26	Surface and Interface Engineering of Noble-Metal-Free Electrocatalysts for Efficient Energy Conversion Processes. Accounts of Chemical Research, 2017, 50, 915-923.	7.6	824
27	Efficient and Stable Bifunctional Electrocatalysts Ni/Ni_xM_y (M =) Tj ETQq1 1 0.784314 rgBT /Ov	7.8	820
28	Heteroatom-Doped Graphene-Based Materials for Energy-Relevant Electrocatalytic Processes. ACS Catalysis, 2015, 5, 5207-5234.	5.5	800
29	An Electrolytic Znâ€“MnO₂ Battery for Highâ€Voltage and Scalable Energy Storage. Angewandte Chemie - International Edition, 2019, 58, 7823-7828.	7.2	787
30	Yolk/shell nanoparticles: new platforms for nanoreactors, drug delivery and lithium-ion batteries. Chemical Communications, 2011, 47, 12578.	2.2	781
31	Extension of The StÃ¶ber Method to the Preparation of Monodisperse Resorcinolâ€“Formaldehyde Resin Polymer and Carbon Spheres. Angewandte Chemie - International Edition, 2011, 50, 5947-5951.	7.2	745
32	Graphitic Carbon Nitride Nanosheetâ€“Carbon Nanotube Threeâ€Dimensional Porous Composites as Highâ€Performance Oxygen Evolution Electrocatalysts. Angewandte Chemie - International Edition, 2014, 53, 7281-7285.	7.2	737
33	Phosphorusâ€Doped Graphitic Carbon Nitrides Grown Inâ€…Situ on Carbonâ€Fiber Paper: Flexible and Reversible Oxygen Electrodes. Angewandte Chemie - International Edition, 2015, 54, 4646-4650.	7.2	722
34	Understanding the Roadmap for Electrochemical Reduction of CO₂ to Multi-Carbon Oxygenates and Hydrocarbons on Copper-Based Catalysts. Journal of the American Chemical Society, 2019, 141, 7646-7659.	6.6	711
35	Metalâ€Free 2D/2D Phosphorene/gâ€C₃N₄ Van der Waals Heterojunction for Highly Enhanced Visibleâ€Light Photocatalytic H₂ Production. Advanced Materials, 2018, 30, e1800128.	11.1	707
36	Superior electric double layer capacitors using ordered mesoporous carbons. Carbon, 2006, 44, 216-224.	5.4	690

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37	How to explore ambient electrocatalytic nitrogen reduction reliably and insightfully. Chemical Society Reviews, 2019, 48, 3166-3180.	18.7	670
38	Magnetic Nanocomposites with Mesoporous Structures: Synthesis and Applications. Small, 2011, 7, 425-443.	5.2	669
39	Porous C₃N₄ Nanolayers@N-Graphene Films as Catalyst Electrodes for Highly Efficient Hydrogen Evolution. ACS Nano, 2015, 9, 931-940.	7.3	655
40	Selfâ€Templating Synthesis of Hollow Co₃O₄ Microtube Arrays for Highly Efficient Water Electrolysis. Angewandte Chemie - International Edition, 2017, 56, 1324-1328.	7.2	648
41	Building Up a Picture of the Electrocatalytic Nitrogen Reduction Activity of Transition Metal Single-Atom Catalysts. Journal of the American Chemical Society, 2019, 141, 9664-9672.	6.6	642
42	Surface strategies for catalytic CO₂reduction: from two-dimensional materials to nanoclusters to single atoms. Chemical Society Reviews, 2019, 48, 5310-5349.	18.7	607
43	Interacting Carbon Nitride and Titanium Carbide Nanosheets for Highâ€Performance Oxygen Evolution. Angewandte Chemie - International Edition, 2016, 55, 1138-1142.	7.2	597
44	Graphene oxide-polydopamine derived N, S-codoped carbon nanosheets as superior bifunctional electrocatalysts for oxygen reduction and evolution. Nano Energy, 2016, 19, 373-381.	8.2	597
45	Nitrogen and Oxygen Dualâ€Doped Carbon Hydrogel Film as a Substrateâ€Free Electrode for Highly Efficient Oxygen Evolution Reaction. Advanced Materials, 2014, 26, 2925-2930.	11.1	594
46	Facile Oxygen Reduction on a Threeâ€Dimensionally Ordered Macroporous Graphitic C₃N₄/Carbon Composite Electrocatalyst. Angewandte Chemie - International Edition, 2012, 51, 3892-3896.	7.2	588
47	Surface and Interface Engineering in Copper-Based Bimetallic Materials for Selective CO2 Electroreduction. CheM, 2018, 4, 1809-1831.	5.8	587
48	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. Nature Communications, 2016, 7, 12876.	5.8	568
49	Nanostructured Metalâ€Free Electrochemical Catalysts for Highly Efficient Oxygen Reduction. Small, 2012, 8, 3550-3566.	5.2	559
50	A facile soft-template synthesis of mesoporous polymeric and carbonaceous nanospheres. Nature Communications, 2013, 4, .	5.8	555
51	Threeâ€Dimensional Nâ€Doped Graphene Hydrogel/NiCo Double Hydroxide Electrocatalysts for Highly Efficient Oxygen Evolution. Angewandte Chemie - International Edition, 2013, 52, 13567-13570.	7.2	547
52	Monodisperse Yolkâ€“Shell Nanoparticles with a Hierarchical Porous Structure for Delivery Vehicles and Nanoreactors. Angewandte Chemie - International Edition, 2010, 49, 4981-4985.	7.2	543
53	Design Strategies toward Advanced MOFâ€Derived Electrocatalysts for Energyâ€Conversion Reactions. Advanced Energy Materials, 2017, 7, 1700518.	10.2	539
54	2D phosphorene as a water splitting photocatalyst: fundamentals to applications. Energy and Environmental Science, 2016, 9, 709-728.	15.6	529

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55	Observation of Active Sites for Oxygen Reduction Reaction on Nitrogen-Doped Multilayer Graphene. ACS Nano, 2014, 8, 6856-6862.	7.3	519
56	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Lowâ€Cost Antisolvents. Angewandte Chemie - International Edition, 2021, 60, 7366-7375.	7.2	516
57	Engineering oxygen vacancy on NiO nanorod arrays for alkaline hydrogen evolution. Nano Energy, 2018, 43, 103-109.	8.2	515
58	Determination of the Electron Transfer Number for the Oxygen Reduction Reaction: From Theory to Experiment. ACS Catalysis, 2016, 6, 4720-4728.	5.5	513
59	Hierarchically Porous Nitrogen-Doped Grapheneâ€“NiCo₂O₄ Hybrid Paper as an Advanced Electrocatalytic Water-Splitting Material. ACS Nano, 2013, 7, 10190-10196.	7.3	506
60	Mesoporous silica nanoparticles for bioadsorption, enzyme immobilisation, and delivery carriers. Nanoscale, 2011, 3, 2801.	2.8	501
61	Highâ€Capacity Aqueous Potassiumâ€Ion Batteries for Largeâ€Scale Energy Storage. Advanced Materials, 2017, 29, 1604007.	11.1	494
62	Feâ€“N Decorated Hybrids of CNTs Grown on Hierarchically Porous Carbon for Highâ€Performance Oxygen Reduction. Advanced Materials, 2014, 26, 6074-6079.	11.1	486
63	Approaches for measuring the surface areas of metal oxide electrocatalysts for determining their intrinsic electrocatalytic activity. Chemical Society Reviews, 2019, 48, 2518-2534.	18.7	483
64	Two-Dimensional Mosaic Bismuth Nanosheets for Highly Selective Ambient Electrocatalytic Nitrogen Reduction. ACS Catalysis, 2019, 9, 2902-2908.	5.5	467
65	Mesoporous Co₃O₄ and Au/Co₃O₄ Catalysts for Low-Temperature Oxidation of Trace Ethylene. Journal of the American Chemical Society, 2010, 132, 2608-2613.	6.6	463
66	Tailoring Acidic Oxygen Reduction Selectivity on Single-Atom Catalysts via Modification of First and Second Coordination Spheres. Journal of the American Chemical Society, 2021, 143, 7819-7827.	6.6	463
67	Highly ordered mesoporous NiO anode material for lithium ion batteries with an excellent electrochemical performance. Journal of Materials Chemistry, 2011, 21, 3046.	6.7	456
68	Highly Ordered Mesoporous MoS₂ with Expanded Spacing of the (002) Crystal Plane for Ultrafast Lithium Ion Storage. Advanced Energy Materials, 2012, 2, 970-975.	10.2	455
69	Transitionâ€Metalâ€Doped RuIr Bifunctional Nanocrystals for Overall Water Splitting in Acidic Environments. Advanced Materials, 2019, 31, e1900510.	11.1	449
70	Protonâ€Functionalized Twoâ€Dimensional Graphitic Carbon Nitride Nanosheet: An Excellent Metalâ€/Labelâ€Free Biosensing Platform. Small, 2014, 10, 2382-2389.	5.2	441
71	Molecular Scaffolding Strategy with Synergistic Active Centers To Facilitate Electrocatalytic CO₂ Reduction to Hydrocarbon/Alcohol. Journal of the American Chemical Society, 2017, 139, 18093-18100.	6.6	439
72	Superior CO2 uptake of N-doped activated carbon through hydrogen-bonding interaction. Energy and Environmental Science, 2012, 5, 7323.	15.6	434

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73	Preparation of capacitorâ€™s electrode from sunflower seed shell. Bioresource Technology, 2011, 102, 1118-1123.	4.8	404
74	Identifying the Key Role of Pyridinicâ€Nâ€“Co Bonding in Synergistic Electrocatalysis for Reversible ORR/OER. Advanced Materials, 2018, 30, e1800005.	11.1	394
75	Amorphous Ni(OH)₂ @ three-dimensional Ni coreâ€“shell nanostructures for high capacitance pseudocapacitors and asymmetric supercapacitors. Journal of Materials Chemistry A, 2014, 2, 13845-13853.	5.2	389
76	3D WS₂ Nanolayers@Heteroatomâ€Doped Graphene Films as Hydrogen Evolution Catalyst Electrodes. Advanced Materials, 2015, 27, 4234-4241.	11.1	389
77	Nâ€Doped Graphene Natively Grown on Hierarchical Ordered Porous Carbon for Enhanced Oxygen Reduction. Advanced Materials, 2013, 25, 6226-6231.	11.1	388
78	Nitrogen Vacancies on 2D Layered W₂N₃: A Stable and Efficient Active Site for Nitrogen Reduction Reaction. Advanced Materials, 2019, 31, e1902709.	11.1	387
79	Mesoporous LiFePO₄/C Nanocomposite Cathode Materials for High Power Lithium Ion Batteries with Superior Performance. Advanced Materials, 2010, 22, 4944-4948.	11.1	380
80	Coordination Tunes Selectivity: Twoâ€Electron Oxygen Reduction on Highâ€Loading Molybdenum Singleâ€Atom Catalysts. Angewandte Chemie - International Edition, 2020, 59, 9171-9176.	7.2	379
81	Anion and Cation Modulation in Metal Compounds for Bifunctional Overall Water Splitting. ACS Nano, 2016, 10, 8738-8745.	7.3	376
82	Nanoparticle synthesis in microreactors. Chemical Engineering Science, 2011, 66, 1463-1479.	1.9	362
83	Graphitic Carbon Nitride (gâ€C₃N₄)â€Derived Nâ€Rich Graphene with Tuneable Interlayer Distance as a Highâ€Rate Anode for Sodiumâ€Ion Batteries. Advanced Materials, 2019, 31, e1901261.	11.1	362
84	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. Nature Communications, 2017, 8, 1509.	5.8	361
85	Promotion of Electrocatalytic Hydrogen Evolution Reaction on Nitrogen-Doped Carbon Nanosheets with Secondary Heteroatoms. ACS Nano, 2017, 11, 7293-7300.	7.3	357
86	Charge-Redistribution-Enhanced Nanocrystalline Ru@IrOx Electrocatalysts for Oxygen Evolution in Acidic Media. CheM, 2019, 5, 445-459.	5.8	354
87	Yolkâ€“Shell Hybrid Materials with a Periodic Mesoporous Organosilica Shell: Ideal Nanoreactors for Selective Alcohol Oxidation. Advanced Functional Materials, 2012, 22, 591-599.	7.8	346
88	Electrocatalytic Refinery for Sustainable Production of Fuels and Chemicals. Angewandte Chemie - International Edition, 2021, 60, 19572-19590.	7.2	341
89	A 3D Hybrid of Chemically Coupled Nickel Sulfide and Hollow Carbon Spheres for High Performance Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2017, 27, 1702524.	7.8	340
90	S-NiFe2O4 ultra-small nanoparticle built nanosheets for efficient water splitting in alkaline and neutral pH. Nano Energy, 2017, 40, 264-273.	8.2	335

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91	Two-dimensional metalâ€“organic frameworks with high oxidation states for efficient electrocatalytic urea oxidation. Chemical Communications, 2017, 53, 10906-10909.	2.2	328
92	The in-vitro bioactivity of mesoporous bioactive glasses. Biomaterials, 2006, 27, 3396-3403.	5.7	327
93	Carbon Solving Carbon's Problems: Recent Progress of Nanostructured Carbonâ€Based Catalysts for the Electrochemical Reduction of CO₂. Advanced Energy Materials, 2017, 7, 1700759.	10.2	327
94	Fabrication of NiS modified CdS nanorod pâ€“n junction photocatalysts with enhanced visible-light photocatalytic H2-production activity. Physical Chemistry Chemical Physics, 2013, 15, 12088.	1.3	323
95	Heteroatom-Doped Transition Metal Electrocatalysts for Hydrogen Evolution Reaction. ACS Energy Letters, 2019, 4, 805-810.	8.8	323
96	Self-Supported Earth-Abundant Nanoarrays as Efficient and Robust Electrocatalysts for Energy-Related Reactions. ACS Catalysis, 2018, 8, 6707-6732.	5.5	320
97	Polydopamineâ€Inspired, Dual Heteroatomâ€Doped Carbon Nanotubes for Highly Efficient Overall Water Splitting. Advanced Energy Materials, 2017, 7, 1602068.	10.2	319
98	Single-Crystal Nitrogen-Rich Two-Dimensional Mo₅N₆ Nanosheets for Efficient and Stable Seawater Splitting. ACS Nano, 2018, 12, 12761-12769.	7.3	317
99	Advantageous crystallineâ€“amorphous phase boundary for enhanced electrochemical water oxidation. Energy and Environmental Science, 2019, 12, 2443-2454.	15.6	315
100	Engineering Highâ€Energy Interfacial Structures for Highâ€Performance Oxygenâ€Involving Electrocatalysis. Angewandte Chemie - International Edition, 2017, 56, 8539-8543.	7.2	314
101	Regulation methods for the Zn/electrolyte interphase and the effectiveness evaluation in aqueous Zn-ion batteries. Energy and Environmental Science, 2021, 14, 5669-5689.	15.6	314
102	2D MoNâ€VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithiumâ€Sulfur Batteries. Angewandte Chemie - International Edition, 2018, 57, 16703-16707.	7.2	313
103	Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. Nanoscale, 2015, 7, 17590-17610.	2.8	312
104	N-doped graphene film-confined nickel nanoparticles as a highly efficient three-dimensional oxygen evolution electrocatalyst. Energy and Environmental Science, 2013, 6, 3693.	15.6	309
105	Strategies for design of electrocatalysts for hydrogen evolution under alkaline conditions. Materials Today, 2020, 36, 125-138.	8.3	308
106	Phosphorene Coâ€catalyst Advancing Highly Efficient Visibleâ€Light Photocatalytic Hydrogen Production. Angewandte Chemie - International Edition, 2017, 56, 10373-10377.	7.2	307
107	Nickel ferrocyanide as a high-performance urea oxidation electrocatalyst. Nature Energy, 2021, 6, 904-912.	19.8	305
108	Advent of 2D Rhenium Disulfide (ReS₂): Fundamentals to Applications. Advanced Functional Materials, 2017, 27, 1606129.	7.8	296

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109	Flexible SnO₂/N-Doped Carbon Nanofiber Films as Integrated Electrodes for Lithium-Ion Batteries with Superior Rate Capacity and Long Cycle Life. Small, 2016, 12, 853-859.	5.2	292
110	Atomicâ€Level Reactive Sites for Semiconductorâ€Based Photocatalytic CO₂ Reduction. Advanced Energy Materials, 2020, 10, 1903879.	10.2	291
111	Recent Advances in Atomic Metal Doping of Carbonâ€based Nanomaterials for Energy Conversion. Small, 2017, 13, 1700191.	5.2	290
112	Size Fractionation of Twoâ€Dimensional Subâ€Nanometer Thin Manganese Dioxide Crystals towards Superior Urea Electrocatalytic Conversion. Angewandte Chemie - International Edition, 2016, 55, 3804-3808.	7.2	288
113	Short-Range Ordered Iridium Single Atoms Integrated into Cobalt Oxide Spinel Structure for Highly Efficient Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2021, 143, 5201-5211.	6.6	287
114	Shape Control of Mn₃O₄ Nanoparticles on Nitrogenâ€Doped Graphene for Enhanced Oxygen Reduction Activity. Advanced Functional Materials, 2014, 24, 2072-2078.	7.8	283
115	Stable and Highly Efficient Hydrogen Evolution from Seawater Enabled by an Unsaturated Nickel Surface Nitride. Advanced Materials, 2021, 33, e2007508.	11.1	278
116	A pH-responsive drug delivery system based on chitosan coated mesoporous silica nanoparticles. Journal of Materials Chemistry, 2012, 22, 11173.	6.7	277
117	Na₂Ti₃O₇@Nâ€Doped Carbon Hollow Spheres for Sodiumâ€Ion Batteries with Excellent Rate Performance. Advanced Materials, 2017, 29, 1700989.	11.1	275
118	Magnetic Hollow Spheres of Periodic Mesoporous Organosilica and Fe₃O₄ Nanocrystals: Fabrication and Structure Control. Advanced Materials, 2008, 20, 805-809.	11.1	274
119	Rutheniumâ€Based Singleâ€Atom Alloy with High Electrocatalytic Activity for Hydrogen Evolution. Advanced Energy Materials, 2019, 9, 1803913.	10.2	270
120	Self-supported electrocatalysts for advanced energy conversion processes. Materials Today, 2016, 19, 265-273.	8.3	268
121	Nanostructured morphology control for efficient supercapacitor electrodes. Journal of Materials Chemistry A, 2013, 1, 2941-2954.	5.2	267
122	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. Energy and Environmental Science, 2020, 13, 1096-1131.	15.6	266
123	Charge State Manipulation of Cobalt Selenide Catalyst for Overall Seawater Electrolysis. Advanced Energy Materials, 2018, 8, 1801926.	10.2	264
124	Periodic Mesoporous Organosilica Hollow Spheres with Tunable Wall Thickness. Journal of the American Chemical Society, 2006, 128, 6320-6321.	6.6	262
125	Dendritic Silica Particles with Center-Radial Pore Channels: Promising Platforms for Catalysis and Biomedical Applications. Small, 2015, 11, 392-413.	5.2	261
126	Characterization of semiconductor photocatalysts. Chemical Society Reviews, 2019, 48, 5184-5206.	18.7	260

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127	Poly-<scp>l</scp>-lysine Functionalized Large Pore Cubic Mesostructured Silica Nanoparticles as Biocompatible Carriers for Gene Delivery. ACS Nano, 2012, 6, 2104-2117.	7.3	247
128	Tailoring Selectivity of Electrochemical Hydrogen Peroxide Generation by Tunable Pyrrolicâ€Nitrogenâ€Carbon. Advanced Energy Materials, 2020, 10, 2000789.	10.2	247
129	Engineering of Carbonâ€Based Electrocatalysts for Emerging Energy Conversion: From Fundamentality to Functionality. Advanced Materials, 2015, 27, 5372-5378.	11.1	246
130	Dualâ€Function Electrolyte Additive for Highly Reversible Zn Anode. Advanced Energy Materials, 2021, 11, 2102010.	10.2	246
131	Ternary NiS/Zn_xCd_{1â€x}S/Reduced Graphene Oxide Nanocomposites for Enhanced Solar Photocatalytic H₂â€Production Activity. Advanced Energy Materials, 2014, 4, 1301925.	10.2	244
132	Synthesis of high-reactive facets dominated anatase TiO2. Journal of Materials Chemistry, 2011, 21, 7052.	6.7	241
133	Mesoporous hybrid material composed of Mn₃O₄nanoparticles on nitrogen-doped graphene for highly efficient oxygen reduction reaction. Chemical Communications, 2013, 49, 7705-7707.	2.2	241
134	Mechanism for Zincophilic Sites on Zincâ€Metal Anode Hosts in Aqueous Batteries. Advanced Energy Materials, 2021, 11, 2003419.	10.2	233
135	Molybdenum sulfide clusters-nitrogen-doped graphene hybrid hydrogel film as an efficient three-dimensional hydrogen evolution electrocatalyst. Nano Energy, 2015, 11, 11-18.	8.2	232
136	Electronic and Structural Engineering of Carbonâ€Based Metalâ€Free Electrocatalysts for Water Splitting. Advanced Materials, 2019, 31, e1803625.	11.1	229
137	Selective Catalysis Remedies Polysulfide Shuttling in Lithiumâ€Sulfur Batteries. Advanced Materials, 2021, 33, e2101006.	11.1	229
138	Critical role of small micropores in high CO2 uptake. Physical Chemistry Chemical Physics, 2013, 15, 2523.	1.3	228
139	Mesoporous MnCo₂O₄with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. Journal of Materials Chemistry A, 2014, 2, 8676-8682.	5.2	227
140	Mesoporous silica nanoparticles with organo-bridged silsesquioxane framework as innovative platforms for bioimaging and therapeutic agent delivery. Biomaterials, 2016, 91, 90-127.	5.7	224
141	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. Advanced Materials, 2017, 29, 1604607.	11.1	224
142	Toward High-Voltage Aqueous Batteries: Super- or Low-Concentrated Electrolyte?. Joule, 2020, 4, 1846-1851.	11.7	223
143	Atomic Engineering Catalyzed MnO₂ Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density. Advanced Materials, 2020, 32, e2001894.	11.1	221
144	Anomalous hydrogen evolution behavior in high-pH environment induced by locally generated hydronium ions. Nature Communications, 2019, 10, 4876.	5.8	220

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145	Regulating Electrocatalysts via Surface and Interface Engineering for Acidic Water Electrooxidation. ACS Energy Letters, 2019, 4, 2719-2730.	8.8	218
146	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. Energy and Environmental Science, 2016, 9, 2563-2570.	15.6	216
147	Wellâ€Dispersed Nickelâ€•and Zincâ€Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. Advanced Materials, 2019, 31, e1807771.	11.1	216
148	Adsorption Study for Removal of Basic Red Dye Using Bentonite. Industrial & Engineering Chemistry Research, 2006, 45, 733-738.	1.8	214
149	NiO as a Bifunctional Promoter for RuO₂ toward Superior Overall Water Splitting. Small, 2018, 14, e1704073.	5.2	214
150	A facile vesicle template route to multi-shelled mesoporous silica hollow nanospheres. Journal of Materials Chemistry, 2010, 20, 4595.	6.7	208
151	2D Metal Organic Framework Nanosheet: A Universal Platform Promoting Highly Efficient Visibleâ€Lightâ€Induced Hydrogen Production. Advanced Energy Materials, 2019, 9, 1803402.	10.2	200
152	Developing Functionalized Dendrimerâ€Like Silica Nanoparticles with Hierarchical Pores as Advanced Delivery Nanocarriers. Advanced Materials, 2013, 25, 5981-5985.	11.1	199
153	Phase segregation reversibility in mixed-metal hydroxide water oxidation catalysts. Nature Catalysis, 2020, 3, 743-753.	16.1	199
154	Ellipsoidal hollow nanostructures assembled from anatase TiO2 nanosheets as a magnetically separable photocatalyst. Chemical Communications, 2011, 47, 2631.	2.2	195
155	Porous MoS₂/Carbon Spheres Anchored on 3D Interconnected Multiwall Carbon Nanotube Networks forÂUltrafast Na Storage. Advanced Energy Materials, 2018, 8, 1702909.	10.2	190
156	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. Angewandte Chemie - International Edition, 2021, 60, 14131-14137.	7.2	190
157	An Earthâ€Abundant Catalystâ€Based Seawater Photoelectrolysis System with 17.9% Solarâ€toâ€Hydrogen Efficiency. Advanced Materials, 2018, 30, e1707261.	11.1	189
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