

Shi Zhang Qiao

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530
papers

87,157
citations

148
h-index

285
g-index

564
ext. papers

101,051
ext. citations

13.3
avg, IF

8.93
L-index

#	Paper	IF	Citations
530	Anatase TiO ₂ single crystals with a large percentage of reactive facets. <i>Nature</i> , 2008 , 453, 638-41	50.4	3391
529	Design of electrocatalysts for oxygen- and hydrogen-involving energy conversion reactions. <i>Chemical Society Reviews</i> , 2015 , 44, 2060-86	58.5	3275
528	Earth-abundant cocatalysts for semiconductor-based photocatalytic water splitting. <i>Chemical Society Reviews</i> , 2014 , 43, 7787-812	58.5	1751
527	Sulfur and nitrogen dual-doped mesoporous graphene electrocatalyst for oxygen reduction with synergistically enhanced performance. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11496-500	16.4	1726
526	Hydrogen evolution by a metal-free electrocatalyst. <i>Nature Communications</i> , 2014 , 5, 3783	17.4	1572
525	Metal-organic framework derived hybrid Co ₃ O ₄ -carbon porous nanowire arrays as reversible oxygen evolution electrodes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13925-31	16.4	1512
524	Graphitic carbon nitride materials: controllable synthesis and applications in fuel cells and photocatalysis. <i>Energy and Environmental Science</i> , 2012 , 5, 6717	35.4	1385
523	Advancing the electrochemistry of the hydrogen-evolution reaction through combining experiment and theory. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 52-65	16.4	1282
522	Solvothermal synthesis and photoreactivity of anatase TiO ₂ nanosheets with dominant {001} facets. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4078-83	16.4	1149
521	TiC MXene co-catalyst on metal sulfide photo-absorbers for enhanced visible-light photocatalytic hydrogen production. <i>Nature Communications</i> , 2017 , 8, 13907	17.4	1073
520	Emerging Two-Dimensional Nanomaterials for Electrocatalysis. <i>Chemical Reviews</i> , 2018 , 118, 6337-6408	68.1	1057
519	Recent Advances in Inorganic Heterogeneous Electrocatalysts for Reduction of Carbon Dioxide. <i>Advanced Materials</i> , 2016 , 28, 3423-52	24	933
518	Porous P-doped graphitic carbon nitride nanosheets for synergistically enhanced visible-light photocatalytic H ₂ production. <i>Energy and Environmental Science</i> , 2015 , 8, 3708-3717	35.4	903
517	Rational design of electrocatalysts and photo(electro)catalysts for nitrogen reduction to ammonia (NH ₃) under ambient conditions. <i>Energy and Environmental Science</i> , 2018 , 11, 45-56	35.4	887
516	Nanoporous graphitic-C ₃ N ₄ @carbon metal-free electrocatalysts for highly efficient oxygen reduction. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20116-9	16.4	869
515	Molecule-Level g-CN Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3336-3339	16.4	816
514	Toward design of synergistically active carbon-based catalysts for electrocatalytic hydrogen evolution. <i>ACS Nano</i> , 2014 , 8, 5290-6	16.7	802

513	Origin of the electrocatalytic oxygen reduction activity of graphene-based catalysts: a roadmap to achieve the best performance. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4394-403	16.4	794
512	Two-step boron and nitrogen doping in graphene for enhanced synergistic catalysis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3110-6	16.4	776
511	Yolk/shell nanoparticles: new platforms for nanoreactors, drug delivery and lithium-ion batteries. <i>Chemical Communications</i> , 2011 , 47, 12578-91	5.8	727
510	Molecular-based design and emerging applications of nanoporous carbon spheres. <i>Nature Materials</i> , 2015 , 14, 763-74	27	712
509	Activity origin and catalyst design principles for electrocatalytic hydrogen evolution on heteroatom-doped graphene. <i>Nature Energy</i> , 2016 , 1,	62.3	703
508	Efficient and Stable Bifunctional Electrocatalysts Ni/NixMy (M = P, S) for Overall Water Splitting. <i>Advanced Functional Materials</i> , 2016 , 26, 3314-3323	15.6	690
507	Heteroatom-Doped Graphene-Based Materials for Energy-Relevant Electrocatalytic Processes. <i>ACS Catalysis</i> , 2015 , 5, 5207-5234	13.1	675
506	Surface and Interface Engineering of Noble-Metal-Free Electrocatalysts for Efficient Energy Conversion Processes. <i>Accounts of Chemical Research</i> , 2017 , 50, 915-923	24.3	672
505	The Hydrogen Evolution Reaction in Alkaline Solution: From Theory, Single Crystal Models, to Practical Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7568-7579	16.4	659
504	Phosphorus-doped graphitic carbon nitrides grown in situ on carbon-fiber paper: flexible and reversible oxygen electrodes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4646-50	16.4	654
503	Graphitic carbon nitride nanosheet-carbon nanotube three-dimensional porous composites as high-performance oxygen evolution electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7281-5	16.4	651
502	Superior electric double layer capacitors using ordered mesoporous carbons. <i>Carbon</i> , 2006 , 44, 216-224	10.4	634
501	Extension of the Stober method to the preparation of monodisperse resorcinol-formaldehyde resin polymer and carbon spheres. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5947-51	16.4	623
500	Cocatalysts in Semiconductor-based Photocatalytic CO Reduction: Achievements, Challenges, and Opportunities. <i>Advanced Materials</i> , 2018 , 30, 1704649	24	614
499	Magnetic nanocomposites with mesoporous structures: synthesis and applications. <i>Small</i> , 2011 , 7, 425-431	11.1	612
498	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16174-16181	16.4	586
497	Porous C3N4 nanolayers@N-graphene films as catalyst electrodes for highly efficient hydrogen evolution. <i>ACS Nano</i> , 2015 , 9, 931-40	16.7	569
496	Self-Templating Synthesis of Hollow Co O Microtube Arrays for Highly Efficient Water Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1324-1328	16.4	558

495	Facile oxygen reduction on a three-dimensionally ordered macroporous graphitic C ₃ N ₄ /carbon composite electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3892-6	16.4	549
494	Metal-Free 2D/2D Phosphorene/g-C N Van der Waals Heterojunction for Highly Enhanced Visible-Light Photocatalytic H ₂ Production. <i>Advanced Materials</i> , 2018 , 30, e1800128	24	521
493	Nitrogen and oxygen dual-doped carbon hydrogel film as a substrate-free electrode for highly efficient oxygen evolution reaction. <i>Advanced Materials</i> , 2014 , 26, 2925-30	24	521
492	Nanostructured metal-free electrochemical catalysts for highly efficient oxygen reduction. <i>Small</i> , 2012 , 8, 3550-66	11	518
491	Monodisperse yolk-shell nanoparticles with a hierarchical porous structure for delivery vehicles and nanoreactors. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4981-5	16.4	510
490	Graphene oxide-polydopamine derived N, S-codoped carbon nanosheets as superior bifunctional electrocatalysts for oxygen reduction and evolution. <i>Nano Energy</i> , 2016 , 19, 373-381	17.1	499
489	Three-dimensional N-doped graphene hydrogel/NiCo double hydroxide electrocatalysts for highly efficient oxygen evolution. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13567-70	16.4	498
488	Interacting Carbon Nitride and Titanium Carbide Nanosheets for High-Performance Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1138-42	16.4	478
487	A facile soft-template synthesis of mesoporous polymeric and carbonaceous nanospheres. <i>Nature Communications</i> , 2013 , 4,	17.4	475
486	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. <i>Nature Communications</i> , 2016 , 7, 12876	17.4	471
485	An Electrolytic Zn-MnO Battery for High-Voltage and Scalable Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7823-7828	16.4	464
484	Hierarchically porous nitrogen-doped graphene-NiCo(2)O(4) hybrid paper as an advanced electrocatalytic water-splitting material. <i>ACS Nano</i> , 2013 , 7, 10190-6	16.7	457
483	Roadmap for advanced aqueous batteries: From design of materials to applications. <i>Science Advances</i> , 2020 , 6, eaba4098	14.3	455
482	Mesoporous silica nanoparticles for bioadsorption, enzyme immobilisation, and delivery carriers. <i>Nanoscale</i> , 2011 , 3, 2801-18	7.7	449
481	Observation of active sites for oxygen reduction reaction on nitrogen-doped multilayer graphene. <i>ACS Nano</i> , 2014 , 8, 6856-62	16.7	445
480	Fe-N decorated hybrids of CNTs grown on hierarchically porous carbon for high-performance oxygen reduction. <i>Advanced Materials</i> , 2014 , 26, 6074-9	24	439
479	Highly ordered mesoporous NiO anode material for lithium ion batteries with an excellent electrochemical performance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3046		423
478	2D phosphorene as a water splitting photocatalyst: fundamentals to applications. <i>Energy and Environmental Science</i> , 2016 , 9, 709-728	35.4	420

477	Highly Ordered Mesoporous MoS ₂ with Expanded Spacing of the (002) Crystal Plane for Ultrafast Lithium Ion Storage. <i>Advanced Energy Materials</i> , 2012 , 2, 970-975	21.8	420
476	Design Strategies toward Advanced MOF-Derived Electrocatalysts for Energy-Conversion Reactions. <i>Advanced Energy Materials</i> , 2017 , 7, 1700518	21.8	406
475	Mesoporous Co ₃ O ₄ and Au/Co ₃ O ₄ catalysts for low-temperature oxidation of trace ethylene. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2608-13	16.4	406
474	Building Up a Picture of the Electrocatalytic Nitrogen Reduction Activity of Transition Metal Single-Atom Catalysts. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9664-9672	16.4	390
473	High-Capacity Aqueous Potassium-Ion Batteries for Large-Scale Energy Storage. <i>Advanced Materials</i> , 2017 , 29, 1604007	24	379
472	How to explore ambient electrocatalytic nitrogen reduction reliably and insightfully. <i>Chemical Society Reviews</i> , 2019 , 48, 3166-3180	58.5	377
471	Surface and Interface Engineering in Copper-Based Bimetallic Materials for Selective CO ₂ Electroreduction. <i>CheM</i> , 2018 , 4, 1809-1831	16.2	372
470	Understanding the Roadmap for Electrochemical Reduction of CO to Multi-Carbon Oxygenates and Hydrocarbons on Copper-Based Catalysts. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7646-7659	16.4	371
469	Superior CO ₂ uptake of N-doped activated carbon through hydrogen-bonding interaction. <i>Energy and Environmental Science</i> , 2012 , 5, 7323	35.4	371
468	Engineering oxygen vacancy on NiO nanorod arrays for alkaline hydrogen evolution. <i>Nano Energy</i> , 2018 , 43, 103-109	17.1	366
467	Surface strategies for catalytic CO reduction: from two-dimensional materials to nanoclusters to single atoms. <i>Chemical Society Reviews</i> , 2019 , 48, 5310-5349	58.5	365
466	Proton-functionalized two-dimensional graphitic carbon nitride nanosheet: an excellent metal-/label-free biosensing platform. <i>Small</i> , 2014 , 10, 2382-9	11	359
465	N-doped graphene natively grown on hierarchical ordered porous carbon for enhanced oxygen reduction. <i>Advanced Materials</i> , 2013 , 25, 6226-31	24	358
464	Mesoporous LiFePO ₄ /C nanocomposite cathode materials for high power lithium ion batteries with superior performance. <i>Advanced Materials</i> , 2010 , 22, 4944-8	24	352
463	3D WS ₂ Nanolayers@Heteroatom-Doped Graphene Films as Hydrogen Evolution Catalyst Electrodes. <i>Advanced Materials</i> , 2015 , 27, 4234-41	24	350
462	Molecular Scaffolding Strategy with Synergistic Active Centers To Facilitate Electrocatalytic CO Reduction to Hydrocarbon/Alcohol. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18093-18100	16.4	341
461	Two-Step Boron and Nitrogen Doping in Graphene for Enhanced Synergistic Catalysis. <i>Angewandte Chemie</i> , 2013 , 125, 3192-3198	3.6	332
460	Yolk-Shell Hybrid Materials with a Periodic Mesoporous Organosilica Shell: Ideal Nanoreactors for Selective Alcohol Oxidation. <i>Advanced Functional Materials</i> , 2012 , 22, 591-599	15.6	330

- 459 Preparation of capacitor's electrode from sunflower seed shell. *Bioresource Technology*, **2011**, 102, 1118-123 330
- 458 Two-Dimensional Mosaic Bismuth Nanosheets for Highly Selective Ambient Electrocatalytic Nitrogen Reduction. *ACS Catalysis*, **2019**, 9, 2902-2908 13.1 329
- 457 Determination of the Electron Transfer Number for the Oxygen Reduction Reaction: From Theory to Experiment. *ACS Catalysis*, **2016**, 6, 4720-4728 13.1 327
- 456 Amorphous Ni(OH)₂ @ three-dimensional Ni core-shell nanostructures for high capacitance pseudocapacitors and asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 13845-13853 13 323
- 455 Anion and Cation Modulation in Metal Compounds for Bifunctional Overall Water Splitting. *ACS Nano*, **2016**, 10, 8738-45 16.7 310
- 454 Nanoparticle synthesis in microreactors. *Chemical Engineering Science*, **2011**, 66, 1463-1479 4.4 298
- 453 The in-vitro bioactivity of mesoporous bioactive glasses. *Biomaterials*, **2006**, 27, 3396-403 15.6 290
- 452 N-doped graphene film-confined nickel nanoparticles as a highly efficient three-dimensional oxygen evolution electrocatalyst. *Energy and Environmental Science*, **2013**, 6, 3693 35.4 282
- 451 Identifying the Key Role of Pyridinic-N-Co Bonding in Synergistic Electrocatalysis for Reversible ORR/OER. *Advanced Materials*, **2018**, 30, e1800005 24 279
- 450 Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. *Nature Communications*, **2017**, 8, 1509 17.4 276
- 449 Fabrication of NiS modified CdS nanorod p-n junction photocatalysts with enhanced visible-light photocatalytic H₂-production activity. *Physical Chemistry Chemical Physics*, **2013**, 15, 12088-94 3.6 274
- 448 Promotion of Electrocatalytic Hydrogen Evolution Reaction on Nitrogen-Doped Carbon Nanosheets with Secondary Heteroatoms. *ACS Nano*, **2017**, 11, 7293-7300 16.7 271
- 447 Magnetic Hollow Spheres of Periodic Mesoporous Organosilica and Fe₃O₄ Nanocrystals: Fabrication and Structure Control. *Advanced Materials*, **2008**, 20, 805-809 24 266
- 446 A 3D Hybrid of Chemically Coupled Nickel Sulfide and Hollow Carbon Spheres for High Performance Lithium-Sulfur Batteries. *Advanced Functional Materials*, **2017**, 27, 1702524 15.6 265
- 445 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, 853-9 11 264
- 444 Transition-Metal-Doped RuIr Bifunctional Nanocrystals for Overall Water Splitting in Acidic Environments. *Advanced Materials*, **2019**, 31, e1900510 24 261
- 443 Shape Control of Mn₃O₄ Nanoparticles on Nitrogen-Doped Graphene for Enhanced Oxygen Reduction Activity. *Advanced Functional Materials*, **2014**, 24, 2072-2078 15.6 261
- 442 Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. *Nanoscale*, **2015**, 7, 17590-610 7.7 259

441	Nitrogen Vacancies on 2D Layered W N : A Stable and Efficient Active Site for Nitrogen Reduction Reaction. <i>Advanced Materials</i> , 2019 , 31, e1902709	24	258
440	S-NiFe ₂ O ₄ ultra-small nanoparticle built nanosheets for efficient water splitting in alkaline and neutral pH. <i>Nano Energy</i> , 2017 , 40, 264-273	17.1	258
439	Polydopamine-Inspired, Dual Heteroatom-Doped Carbon Nanotubes for Highly Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , 2017 , 7, 1602068	21.8	256
438	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8539-8543	16.4	254
437	Periodic mesoporous organosilica hollow spheres with tunable wall thickness. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6320-1	16.4	252
436	Carbon Solving Carbon's Problems: Recent Progress of Nanostructured Carbon-Based Catalysts for the Electrochemical Reduction of CO ₂ . <i>Advanced Energy Materials</i> , 2017 , 7, 1700759	21.8	250
435	Phosphorene Co-catalyst Advancing Highly Efficient Visible-Light Photocatalytic Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10373-10377	16.4	247
434	Self-Supported Earth-Abundant Nanoarrays as Efficient and Robust Electrocatalysts for Energy-Related Reactions. <i>ACS Catalysis</i> , 2018 , 8, 6707-6732	13.1	240
433	Recent Advances in Atomic Metal Doping of Carbon-based Nanomaterials for Energy Conversion. <i>Small</i> , 2017 , 13, 1700191	11	235
432	Sulfur and Nitrogen Dual-Doped Mesoporous Graphene Electrocatalyst for Oxygen Reduction with Synergistically Enhanced Performance. <i>Angewandte Chemie</i> , 2012 , 124, 11664-11668	3.6	234
431	Graphitic Carbon Nitride (g-C ₃ N ₄)-Derived N-Rich Graphene with Tuneable Interlayer Distance as a High-Rate Anode for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1901261	24	232
430	Nanostructured morphology control for efficient supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2941-2954	13	232
429	Approaches for measuring the surface areas of metal oxide electrocatalysts for determining their intrinsic electrocatalytic activity. <i>Chemical Society Reviews</i> , 2019 , 48, 2518-2534	58.5	227
428	A pH-responsive drug delivery system based on chitosan coated mesoporous silica nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11173		227
427	Poly-L-lysine functionalized large pore cubic mesostructured silica nanoparticles as biocompatible carriers for gene delivery. <i>ACS Nano</i> , 2012 , 6, 2104-17	16.7	227
426	Na Ti O @N-Doped Carbon Hollow Spheres for Sodium-Ion Batteries with Excellent Rate Performance. <i>Advanced Materials</i> , 2017 , 29, 1700989	24	226
425	Mesoporous hybrid material composed of Mn ₃ O ₄ nanoparticles on nitrogen-doped graphene for highly efficient oxygen reduction reaction. <i>Chemical Communications</i> , 2013 , 49, 7705-7	5.8	226
424	Size Fractionation of Two-Dimensional Sub-Nanometer Thin Manganese Dioxide Crystals towards Superior Urea Electrocatalytic Conversion. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3804-8	16.4	225

423	Advent of 2D Rhenium Disulfide (ReS ₂): Fundamentals to Applications. <i>Advanced Functional Materials</i> , 2017 , 27, 1606129	15.6	224
422	2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16703-16707	16.4	224
421	Synthesis of high-reactive facets dominated anatase TiO ₂ . <i>Journal of Materials Chemistry</i> , 2011 , 21, 7052		223
420	Ternary NiS/ZnxCd1-xS/Reduced Graphene Oxide Nanocomposites for Enhanced Solar Photocatalytic H ₂ -Production Activity. <i>Advanced Energy Materials</i> , 2014 , 4, 1301925	21.8	218
419	Two-dimensional metal-organic frameworks with high oxidation states for efficient electrocatalytic urea oxidation. <i>Chemical Communications</i> , 2017 , 53, 10906-10909	5.8	218
418	Dendritic silica particles with center-radial pore channels: promising platforms for catalysis and biomedical applications. <i>Small</i> , 2015 , 11, 392-413	11	217
417	Engineering of Carbon-Based Electrocatalysts for Emerging Energy Conversion: From Fundamentality to Functionality. <i>Advanced Materials</i> , 2015 , 27, 5372-8	24	216
416	Self-supported electrocatalysts for advanced energy conversion processes. <i>Materials Today</i> , 2016 , 19, 265-273	21.8	212
415	Molybdenum sulfide clusters-nitrogen-doped graphene hybrid hydrogel film as an efficient three-dimensional hydrogen evolution electrocatalyst. <i>Nano Energy</i> , 2015 , 11, 11-18	17.1	209
414	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
413	Charge-Redistribution-Enhanced Nanocrystalline Ru@IrO _x Electrocatalysts for Oxygen Evolution in Acidic Media. <i>CheM</i> , 2019 , 5, 445-459	16.2	205
412	Mesoporous silica nanoparticles with organo-bridged silsesquioxane framework as innovative platforms for bioimaging and therapeutic agent delivery. <i>Biomaterials</i> , 2016 , 91, 90-127	15.6	199
411	A facile vesicle template route to multi-shelled mesoporous silica hollow nanospheres. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4595		199
410	Mesoporous MnCo ₂ O ₄ with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8676-8682	13	196
409	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. <i>Advanced Materials</i> , 2017 , 29, 1604607	24	194
408	Ellipsoidal hollow nanostructures assembled from anatase TiO ₂ nanosheets as a magnetically separable photocatalyst. <i>Chemical Communications</i> , 2011 , 47, 2631-3	5.8	189
407	Heteroatom-Doped Transition Metal Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , 2019 , 4, 805-810	20.1	188
406	Critical role of small micropores in high CO ₂ uptake. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 2523-9.6		184

405	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , 2016 , 9, 2563-2570	35.4	183
404	Adsorption Study for Removal of Basic Red Dye Using Bentonite. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 733-738	3.9	181
403	Functionalization of large-pore mesoporous silicas with organosilanes by direct synthesis. <i>Microporous and Mesoporous Materials</i> , 2004 , 72, 33-42	5.3	179
402	TiO ₂ and SnO ₂ @TiO ₂ hollow spheres assembled from anatase TiO ₂ nanosheets with enhanced lithium storage properties. <i>Chemical Communications</i> , 2010 , 46, 8252-4	5.8	176
401	Developing functionalized dendrimer-like silica nanoparticles with hierarchical pores as advanced delivery nanocarriers. <i>Advanced Materials</i> , 2013 , 25, 5981-5	24	173
400	An ordered mesoporous WS ₂ anode material with superior electrochemical performance for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17437		173
399	Advantageous crystalline↔amorphous phase boundary for enhanced electrochemical water oxidation. <i>Energy and Environmental Science</i> , 2019 , 12, 2443-2454	35.4	172
398	Single-Crystal Nitrogen-Rich Two-Dimensional MoN Nanosheets for Efficient and Stable Seawater Splitting. <i>ACS Nano</i> , 2018 , 12, 12761-12769	16.7	171
397	Fabrication and Size-Selective Bioseparation of Magnetic Silica Nanospheres with Highly Ordered Periodic Mesoporous Structure. <i>Advanced Functional Materials</i> , 2008 , 18, 3203-3212	15.6	170
396	N-doped mesoporous carbon spheres as the oxygen reduction reaction catalysts. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18139-18146	13	168
395	Shape-controlled synthesis of cobalt-based nanocubes, nanodiscs, and nanoflowers and their comparative lithium-storage properties. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3628-35	9.5	166
394	Electronic and Structural Engineering of Carbon-Based Metal-Free Electrocatalysts for Water Splitting. <i>Advanced Materials</i> , 2019 , 31, e1803625	24	163
393	Atomic-Level Reactive Sites for Semiconductor-Based Photocatalytic CO ₂ Reduction. <i>Advanced Energy Materials</i> , 2020 , 10, 1903879	21.8	162
392	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7366-7375	16.4	161
391	Adsorption performance of VOCs in ordered mesoporous silicas with different pore structures and surface chemistry. <i>Journal of Hazardous Materials</i> , 2011 , 186, 1615-24	12.8	160
390	Carbon-supported ultra-thin anatase TiO ₂ nanosheets for fast reversible lithium storage. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5687		158
389	Three-Dimensional Smart Catalyst Electrode for Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2015 , 5, 1500936	21.8	155
388	Porous MoS ₂ /Carbon Spheres Anchored on 3D Interconnected Multiwall Carbon Nanotube Networks for Ultrafast Na Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1702909	21.8	153

- 387 Bioinspired preparation of polydopamine microcapsule for multienzyme system construction. *Green Chemistry*, **2011**, 13, 300-306 10 153
- 386 Ruthenium-Based Single-Atom Alloy with High Electrocatalytic Activity for Hydrogen Evolution. *Advanced Energy Materials*, **2019**, 9, 1803913 21.8 152
- 385 Strategies for design of electrocatalysts for hydrogen evolution under alkaline conditions. *Materials Today*, **2020**, 36, 125-138 21.8 152
- 384 Ionic liquid self-combustion synthesis of BiOBr/Bi₂₄O₃₁Br₁₀ heterojunctions with exceptional visible-light photocatalytic performances. *Nanoscale*, **2015**, 7, 1116-26 7.7 151
- 383 Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. *Advanced Materials*, **2019**, 31, e1807771 24 149
- 382 Dynamic adsorption of volatile organic compounds on organofunctionalized SBA-15 materials. *Chemical Engineering Journal*, **2009**, 149, 281-288 14.7 148
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- 380 Enhanced visible-light photocatalytic H₂ production by Zn_x Cd_{1-x}S modified with earth-abundant nickel-based cocatalysts. *ChemSusChem*, **2014**, 7, 3426-34 8.3 147
- 379 Enzyme-responsive controlled release of covalently bound prodrug from functional mesoporous silica nanospheres. *Angewandte Chemie - International Edition*, **2012**, 51, 12486-9 16.4 146
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