

Huijun Zhao

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

563
papers

37,885
citations

99
h-index

168
g-index

585
ext. papers

43,477
ext. citations

10.2
avg, IF

7.63
L-index

#	Paper	IF	Citations
563	Ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Nature Energy</i> , 2016 , 1,	62.3	1444
562	Metal-organic frameworks as selectivity regulators for hydrogenation reactions. <i>Nature</i> , 2016 , 539, 76-80	90.4	925
561	Ultrathin platinum nanowires grown on single-layered nickel hydroxide with high hydrogen evolution activity. <i>Nature Communications</i> , 2015 , 6, 6430	17.4	719
560	Growth of polypyrrole ultrathin films on MoS ₂ monolayers as high-performance supercapacitor electrodes. <i>Advanced Materials</i> , 2015 , 27, 1117-23	24	602
559	Fe ₂ O ₃ multi-shelled hollow microspheres for lithium ion battery anodes with superior capacity and charge retention. <i>Energy and Environmental Science</i> , 2014 , 7, 632-637	35.4	582
558	Accurate control of multishelled Co ₃ O ₄ hollow microspheres as high-performance anode materials in lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6417-20	16.4	580
557	Core-shell palladium nanoparticle@metal-organic frameworks as multifunctional catalysts for cascade reactions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1738-41	16.4	557
556	A Hierarchical Z-Scheme Fe ₃ O ₄ /g-C ₃ N ₄ Hybrid for Enhanced Photocatalytic CO Reduction. <i>Advanced Materials</i> , 2018 , 30, 1706108	24	544
555	Multi-shelled hollow micro-/nanostructures. <i>Chemical Society Reviews</i> , 2015 , 44, 6749-73	58.5	540
554	Carbonized nanoscale metal-organic frameworks as high performance electrocatalyst for oxygen reduction reaction. <i>ACS Nano</i> , 2014 , 8, 12660-8	16.7	456
553	Cross-linked g-C ₃ N ₄ /rGO nanocomposites with tunable band structure and enhanced visible light photocatalytic activity. <i>Small</i> , 2013 , 9, 3336-44	11	451
552	Three-dimensional graphene/metal oxide nanoparticle hybrids for high-performance capacitive deionization of saline water. <i>Advanced Materials</i> , 2013 , 25, 6270-6	24	437
551	Few-layer graphdiyne doped with sp ² -hybridized nitrogen atoms at acetylenic sites for oxygen reduction electrocatalysis. <i>Nature Chemistry</i> , 2018 , 10, 924-931	17.6	379
550	Photocatalytic properties of graphdiyne and graphene modified TiO ₂ from theory to experiment. <i>ACS Nano</i> , 2013 , 7, 1504-12	16.7	373
549	Functionalization of perovskite thin films with moisture-tolerant molecules. <i>Nature Energy</i> , 2016 , 1,	62.3	369
548	Multishelled TiO ₂ hollow microspheres as anodes with superior reversible capacity for lithium ion batteries. <i>Nano Letters</i> , 2014 , 14, 6679-84	11.5	366
547	Rational screening low-cost counter electrodes for dye-sensitized solar cells. <i>Nature Communications</i> , 2013 , 4, 1583	17.4	340

546	Multi-shelled metal oxides prepared via an anion-adsorption mechanism for lithium-ion batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	304
545	Surface capacitive contributions: Towards high rate anode materials for sodium ion batteries. <i>Nano Energy</i> , 2015 , 12, 224-230	17.1	301
544	Co ₃ O ₄ Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visible-Light Photocatalytic Reduction of CO ₂ . <i>Advanced Materials</i> , 2016 , 28, 6485-90	24	296
543	An efficient and low-cost TiO ₂ compact layer for performance improvement of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2009 , 54, 1319-1324	6.7	291
542	Density functional theory analysis of structural and electronic properties of orthorhombic perovskite CH ₃ NH ₃ PbI ₃ . <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1424-9	3.6	284
541	Cobalt Covalent Doping in MoS ₂ to Induce Bifunctionality of Overall Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1801450	24	273
540	Accurate Control of Multishelled Co ₃ O ₄ Hollow Microspheres as High-Performance Anode Materials in Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2013 , 125, 6545-6548	3.6	264
539	Enhanced visible-light-driven photocatalytic inactivation of Escherichia coli using g-C ₃ N ₄ /TiO ₂ hybrid photocatalyst synthesized using a hydrothermal-calcination approach. <i>Water Research</i> , 2015 , 86, 17-24	12.5	261
538	Quintuple-shelled SnO ₂ hollow microspheres with superior light scattering for high-performance dye-sensitized solar cells. <i>Advanced Materials</i> , 2014 , 26, 905-9	24	260
537	Photocatalytic synthesis of TiO ₂ and reduced graphene oxide nanocomposite for lithium ion battery. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3636-42	9.5	251
536	Earth-abundant Ni ₂ P/g-C ₃ N ₄ lamellar nanohybrids for enhanced photocatalytic hydrogen evolution and bacterial inactivation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 570-580	21.8	228
535	Multi-shelled CeO ₂ hollow microspheres as superior photocatalysts for water oxidation. <i>Nanoscale</i> , 2014 , 6, 4072-7	7.7	226
534	Co/Co ₉ S ₈ @S,N-doped porous graphene sheets derived from S, N dual organic ligands assembled Co-MOFs as superior electrocatalysts for full water splitting in alkaline media. <i>Nano Energy</i> , 2016 , 30, 93-102	17.1	216
533	Local atomic structure modulations activate metal oxide as electrocatalyst for hydrogen evolution in acidic water. <i>Nature Communications</i> , 2015 , 6, 8064	17.4	214
532	3D graphene/EMnO ₂ aerogels for highly efficient and reversible removal of heavy metal ions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1970-1979	13	211
531	Co/CoO nanoparticles immobilized on Co-N-doped carbon as trifunctional electrocatalysts for oxygen reduction, oxygen evolution and hydrogen evolution reactions. <i>Chemical Communications</i> , 2016 , 52, 5946-9	5.8	190
530	Ultrathin Nitrogen-Doped Holey Carbon@Graphene Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions in Alkaline and Acidic Media. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16511-16515	16.4	190
529	Photocatalytic nanomaterials for solar-driven bacterial inactivation: recent progress and challenges. <i>Environmental Science: Nano</i> , 2017 , 4, 782-799	7.1	185

528	Carbon for the oxygen reduction reaction: a defect mechanism. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11736-11739	13	184
527	Two-dimensional carbon leading to new photoconversion processes. <i>Chemical Society Reviews</i> , 2014 , 43, 4281-99	58.5	184
526	Dual-functional gum arabic binder for silicon anodes in lithium ion batteries. <i>Nano Energy</i> , 2015 , 12, 178-185	18.5	183
525	Potassium-Ion-Assisted Regeneration of Active Cyano Groups in Carbon Nitride Nanoribbons: Visible-Light-Driven Photocatalytic Nitrogen Reduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16644-16650	16.4	180
524	A self-sponsored doping approach for controllable synthesis of S and N co-doped trimodal-porous structured graphitic carbon electrocatalysts. <i>Energy and Environmental Science</i> , 2014 , 7, 3720-3726	35.4	180
523	Naturally occurring sphalerite as a novel cost-effective photocatalyst for bacterial disinfection under visible light. <i>Environmental Science & Technology</i> , 2011 , 45, 5689-95	10.3	180
522	Coexisting Single-Atomic Fe and Ni Sites on Hierarchically Ordered Porous Carbon as a Highly Efficient ORR Electrocatalyst. <i>Advanced Materials</i> , 2020 , 32, e2004670	24	170
521	A Yolk-Shell Structured Silicon Anode with Superior Conductivity and High Tap Density for Full Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8824-8828	16.4	165
520	Metal-organic framework derived nitrogen-doped porous carbon@graphene sandwich-like structured composites as bifunctional electrocatalysts for oxygen reduction and evolution reactions. <i>Carbon</i> , 2016 , 106, 74-83	10.4	164
519	Unidirectional suppression of hydrogen oxidation on oxidized platinum clusters. <i>Nature Communications</i> , 2013 , 4, 2500	17.4	162
518	Iron Vacancies Induced Bifunctionality in Ultrathin Feroxyhyte Nanosheets for Overall Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1803144	24	160
517	One dimensional CuInS ₂ /ZnS heterostructured nanomaterials as low-cost and high-performance counter electrodes of dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 835	35.4	159
516	Anatase TiO ₂ microspheres with exposed mirror-like plane {001} facets for high performance dye-sensitized solar cells (DSSCs). <i>Chemical Communications</i> , 2010 , 46, 8395-7	5.8	159
515	Enhanced photocatalytic inactivation of Escherichia coli by a novel Z-scheme g-C ₃ N ₄ /m-Bi ₂ O ₄ hybrid photocatalyst under visible light: The role of reactive oxygen species. <i>Applied Catalysis B: Environmental</i> , 2017 , 214, 23-33	21.8	158
514	Boron doped BiOBr nanosheets with enhanced photocatalytic inactivation of Escherichia coli. <i>Applied Catalysis B: Environmental</i> , 2016 , 192, 35-45	21.8	156
513	Development of a Direct Photoelectrochemical Method for Determination of Chemical Oxygen Demand. <i>Analytical Chemistry</i> , 2004 , 76, 155-160	7.8	155
512	Few-Layer Graphdiyne Nanosheets Applied for Multiplexed Real-Time DNA Detection. <i>Advanced Materials</i> , 2017 , 29, 1606755	24	153
511	Photocatalytic degradation characteristics of different organic compounds at TiO ₂ nanoporous film electrodes with mixed anatase/ rutile phases. <i>Environmental Science & Technology</i> , 2007 , 41, 303-8	10.3	153

510	The influence of biochar type on long-term stabilization for Cd and Cu in contaminated paddy soils. <i>Journal of Hazardous Materials</i> , 2016 , 304, 40-8	12.8	150
509	A New Graphdiyne Nanosheet/Pt Nanoparticle-Based Counter Electrode Material with Enhanced Catalytic Activity for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500296	21.8	149
508	Dramatically Enhanced Ambient Ammonia Electrosynthesis Performance by In-Operando Created Li ⁺ Interactions on MoS ₂ Electrocatalyst. <i>Advanced Energy Materials</i> , 2019 , 9, 1803935	21.8	149
507	Bifunctional NH ₂ -MIL-88(Fe) metal-organic framework nanooctahedra for highly sensitive detection and efficient removal of arsenate in aqueous media. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23794-23804	13	148
506	Synthesis and characterisation of a polyacrylamide-polyacrylic acid copolymer hydrogel for environmental analysis of Cu and Cd. <i>Reactive and Functional Polymers</i> , 2002 , 52, 31-41	4.6	148
505	Hydrogenation Synthesis of Blue TiO ₂ for High-Performance Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8824-8830	3.8	146
504	pH-Regulated Synthesis of Multi-Shelled Manganese Oxide Hollow Microspheres as Supercapacitor Electrodes Using Carbonaceous Microspheres as Templates. <i>Advanced Science</i> , 2014 , 1, 1400011	13.6	145
503	Nature-based catalyst for visible-light-driven photocatalytic CO ₂ reduction. <i>Energy and Environmental Science</i> , 2018 , 11, 2382-2389	35.4	145
502	Conducting electroactive polymer-based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 1999 , 18, 245-256	25.6	141
501	Inorganic photocatalysts for overall water splitting. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 642-57	4.5	139
500	Efficient Synthesis of Furfuryl Alcohol from H ₂ -Hydrogenation/Transfer Hydrogenation of Furfural Using Sulfonate Group Modified Cu Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2172-2180	8.3	136
499	Biomass-derived N-doped porous carbon as electrode materials for Zn-air battery powered capacitive deionization. <i>Chemical Engineering Journal</i> , 2018 , 334, 1270-1280	14.7	134
498	Ultrathin Transition Metal Dichalcogenide/3d Metal Hydroxide Hybridized Nanosheets to Enhance Hydrogen Evolution Activity. <i>Advanced Materials</i> , 2018 , 30, e1801171	24	134
497	Controllable synthesis of mesostructures from TiO hollow to porous nanospheres with superior rate performance for lithium ion batteries. <i>Chemical Science</i> , 2016 , 7, 793-798	9.4	133
496	Facet-dependent catalytic activity of platinum nanocrystals for triiodide reduction in dye-sensitized solar cells. <i>Scientific Reports</i> , 2013 , 3, 1836	4.9	133
495	Stable isolated metal atoms as active sites for photocatalytic hydrogen evolution. <i>Chemistry - A European Journal</i> , 2014 , 20, 2138-44	4.8	132
494	One-step synthesis of cobalt-doped MoS nanosheets as bifunctional electrocatalysts for overall water splitting under both acidic and alkaline conditions. <i>Chemical Communications</i> , 2018 , 54, 3859-3862	5.8	130
493	Formation Mechanism of Freestanding CH ₃ NH ₃ PbI ₃ Functional Crystals: In Situ Transformation vs Dissolution-Crystallization. <i>Chemistry of Materials</i> , 2014 , 26, 6705-6710	9.6	130

492	Visible-light-driven photocatalytic inactivation of E. coli by Ag/AgX-CNTs (X = Cl, Br, I) plasmonic photocatalysts: Bacterial performance and deactivation mechanism. <i>Applied Catalysis B: Environmental</i> , 2014 , 158-159, 301-307	21.8	129
491	Diffusion-controlled detection of trinitrotoluene: interior nanoporous structure and low highest occupied molecular orbital level of building blocks enhance selectivity and sensitivity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4978-82	16.4	129
490	Microwave-assisted fabrication of nanoparticulate TiO ₂ microspheres for synergistic photocatalytic removal of Cr(VI) and methyl orange. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3008-15	9.5	127
489	Synthesis and characterization of novel plasmonic Ag/AgX-CNTs (X = Cl, Br, I) nanocomposite photocatalysts and synergetic degradation of organic pollutant under visible light. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6959-67	9.5	125
488	Targeted synthesis of a porous aromatic framework with a high adsorption capacity for organic molecules. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13498		125
487	New insight into the role of gold nanoparticles in Au@CdS core-shell nanostructures for hydrogen evolution. <i>Small</i> , 2014 , 10, 4664-70	11	123
486	Systematic approach to in-depth understanding of photoelectrocatalytic bacterial inactivation mechanisms by tracking the decomposed building blocks. <i>Environmental Science & Technology</i> , 2014 , 48, 9412-9	10.3	122
485	Hydrothermal transformation of dried grass into graphitic carbon-based high performance electrocatalyst for oxygen reduction reaction. <i>Small</i> , 2014 , 10, 3371-8	11	122
484	Electrodeposition preparation of Ag loaded N-doped TiO ₂ nanotube arrays with enhanced visible light photocatalytic performance. <i>Catalysis Communications</i> , 2011 , 12, 689-693	3.2	122
483	Temperature-Controlled Selectivity of Hydrogenation and Hydrodeoxygenation in the Conversion of Biomass Molecule by the Ru/mpg-CN Catalyst. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11161-11164	16.4	120
482	A selective etching phenomenon on {001} faceted anatase titanium dioxide single crystal surfaces by hydrofluoric acid. <i>Chemical Communications</i> , 2011 , 47, 2829-31	5.8	117
481	Ni ₂ P(O)/Fe ₂ P(O) Interface Can Boost Oxygen Evolution Electrocatalysis. <i>ACS Energy Letters</i> , 2017 , 2, 2257-2263	20.1	116
480	Recent applications of TiO ₂ nanomaterials in chemical sensing in aqueous media. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 875-890	8.5	114
479	Electrodeposition of polyhedral Cu ₂ O on TiO ₂ nanotube arrays for enhancing visible light photocatalytic performance. <i>Electrochemistry Communications</i> , 2011 , 13, 861-864	5.1	113
478	Synthesis of carbon nanotube-anatase TiO ₂ sub-micrometer-sized sphere composite photocatalyst for synergistic degradation of gaseous styrene. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5988-96	9.5	111
477	Lignocellulose aerogel from wood-ionic liquid solution (1-allyl-3-methylimidazolium chloride) under freezing and thawing conditions. <i>Biomacromolecules</i> , 2011 , 12, 1860-7	6.9	111
476	High-Performance TiO ₂ Photoanode with an Efficient Electron Transport Network for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16277-16282	3.8	109
475	Activation of persulfates by natural magnetic pyrrhotite for water disinfection: Efficiency, mechanisms, and stability. <i>Water Research</i> , 2017 , 112, 236-247	12.5	108

474	Molecular engineering of Ni-/Co-porphyrin multilayers on reduced graphene oxide sheets as bifunctional catalysts for oxygen evolution and oxygen reduction reactions. <i>Chemical Science</i> , 2016 , 7, 5640-5646	9.4	108
473	Formation of Septuple-Shelled (Co Mn)(Co Mn) O Hollow Spheres as Electrode Material for Alkaline Rechargeable Battery. <i>Advanced Materials</i> , 2017 , 29, 1700550	24	108
472	Characterization of Photoelectrocatalytic Processes at Nanoporous TiO ₂ Film Electrodes: Photocatalytic Oxidation of Glucose. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12774-12780	3.4	107
471	Highly efficient and recyclable triple-shelled Ag@Fe ₃ O ₄ @SiO ₂ @TiO ₂ photocatalysts for degradation of organic pollutants and reduction of hexavalent chromium ions. <i>Nanoscale</i> , 2014 , 6, 5181-52	3.7	106
470	Transforming chitosan into N-doped graphitic carbon electrocatalysts. <i>Chemical Communications</i> , 2015 , 51, 1334-7	5.8	105
469	Approaching the activity limit of CoSe for oxygen evolution via Fe doping and Co vacancy. <i>Nature Communications</i> , 2020 , 11, 1664	17.4	104
468	Synergistic photocatalytic inactivation mechanisms of bacteria by graphene sheets grafted plasmonic AgAgX (X=Cl, Br, I) composite photocatalyst under visible light irradiation. <i>Water Research</i> , 2016 , 99, 149-161	12.5	102
467	Target synthesis of a novel porous aromatic framework and its highly selective separation of CO ₂ /CH ₄ . <i>Chemical Communications</i> , 2013 , 49, 2780-2	5.8	102
466	Novel TiO ₂ thin film with non-UV activated superwetting and antifogging behaviours. <i>Journal of Materials Chemistry</i> , 2007 , 17, 952		101
465	Stable Seamless Interfaces and Rapid Ionic Conductivity of CaCeO ₂ /LiTFSI/PEO Composite Electrolyte for High-Rate and High-Voltage All-Solid-State Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 2000049	21.8	101
464	Acid degradable ZnO quantum dots as a platform for targeted delivery of an anticancer drug. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13406		99
463	Two-Step Activated Carbon Cloth with Oxygen-Rich Functional Groups as a High-Performance Additive-Free Air Electrode for Flexible Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1802936	21.8	99
462	Kinetic study of photocatalytic oxidation of adsorbed carboxylic acids at TiO ₂ porous films by photoelectrolysis. <i>Journal of Catalysis</i> , 2004 , 223, 212-220	7.3	96
461	Cu doping in CeO to form multiple oxygen vacancies for dramatically enhanced ambient N reduction performance. <i>Chemical Communications</i> , 2019 , 55, 2952-2955	5.8	96
460	Fabrication of mesoporous lignocellulose aerogels from wood via cyclic liquid nitrogen freezing-thawing in ionic liquid solution. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13548		95
459	Anatase TiO ₂ crystal facet growth: mechanistic role of hydrofluoric acid and photoelectrocatalytic activity. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2472-8	9.5	95
458	Photoelectrocatalytic decontamination of oilfield produced wastewater containing refractory organic pollutants in the presence of high concentration of chloride ions. <i>Journal of Hazardous Materials</i> , 2006 , 138, 392-400	12.8	95
457	A recyclable mineral catalyst for visible-light-driven photocatalytic inactivation of bacteria: natural magnetic sphalerite. <i>Environmental Science & Technology</i> , 2013 , 47, 11166-73	10.3	93

456	Ambient Electrosynthesis of Ammonia on a Biomass-Derived Nitrogen-Doped Porous Carbon Electrocatalyst: Contribution of Pyridinic Nitrogen. <i>ACS Energy Letters</i> , 2019 , 4, 377-383	20.1	93
455	FeOOH Nanorods/Carbon Foam-Based Hierarchically Porous Monolith for Highly Effective Arsenic Removal. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13480-13490	9.5	92
454	NiFe-Layered Double Hydroxide Nanosheet Arrays Supported on Carbon Cloth for Highly Sensitive Detection of Nitrite. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6541-6551	9.5	92
453	Yolk@shell anatase TiO ₂ hierarchical microspheres with exposed {001} facets for high-performance dye sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22082		92
452	Titanium dioxide-based DGT technique for in situ measurement of dissolved reactive phosphorus in fresh and marine waters. <i>Environmental Science & Technology</i> , 2010 , 44, 9419-24	10.3	91
451	A facile vapor-phase hydrothermal method for direct growth of titanate nanotubes on a titanium substrate via a distinctive nanosheet roll-up mechanism. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19032-5	16.4	90
450	Fe/Fe ₂ O ₃ nanoparticles anchored on Fe-N-doped carbon nanosheets as bifunctional oxygen electrocatalysts for rechargeable zinc-air batteries. <i>Nano Research</i> , 2016 , 9, 2123-2137	10	90
449	Surface hydrogen bonding can enhance photocatalytic H ₂ evolution efficiency. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14089	13	89
448	Optimization synthesis of carbon nanotubes-anatase TiO ₂ composite photocatalyst by response surface methodology for photocatalytic degradation of gaseous styrene. <i>Applied Catalysis B: Environmental</i> , 2012 , 123-124, 69-77	21.8	88
447	S,N-Containing Co-MOF derived Co ₉ S ₈ @S,N-doped carbon materials as efficient oxygen electrocatalysts and supercapacitor electrode materials. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 491-498	6.8	86
446	Hyper-Branched Cu@Cu ₂ O Coaxial Nanowires Mesh Electrode for Ultra-Sensitive Glucose Detection. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16802-12	9.5	86
445	Hierarchical iron containing MnO ₂ hollow microspheres: A facile one-step synthesis and effective removal of As(III) via oxidation and adsorption. <i>Chemical Engineering Journal</i> , 2016 , 301, 139-148	14.7	86
444	Palladium-decorated hierarchical titania constructed from the metal-organic frameworks NH ₂ -MIL-125(Ti) as a robust photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 743-750	21.8	84
443	Cross-linked ZnIn ₂ S ₄ /rGO composite photocatalyst for sunlight-driven photocatalytic degradation of 4-nitrophenol. <i>Applied Catalysis B: Environmental</i> , 2015 , 168-169, 266-273	21.8	84
442	Development of chemical oxygen demand on-line monitoring system based on a photoelectrochemical degradation principle. <i>Environmental Science & Technology</i> , 2006 , 40, 2363-8	10.3	84
441	Nitrogen-Doped Carbon Nanotube Confined Co-N Sites for Selective Hydrogenation of Biomass-Derived Compounds. <i>Advanced Materials</i> , 2019 , 31, e1808341	24	83
440	Fluorescence Determination of Nitrite in Water Using Prawn-Shell Derived Nitrogen-Doped Carbon Nanodots as Fluorophores. <i>ACS Sensors</i> , 2016 , 1, 875-881	9.2	83
439	Size Modulation of Zirconium-Based Metal Organic Frameworks for Highly Efficient Phosphate Remediation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32151-32160	9.5	83

438	Low temperature solvothermal synthesis of anatase TiO ₂ single crystals with wholly {100} and {001} faceted surfaces. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23906		82
437	Active sites on hydrogen evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15258	13	81
436	One-step solid phase synthesis of a highly efficient and robust cobalt pentlandite electrocatalyst for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18314-18321	13	80
435	Shrimp-shell derived carbon nanodots as carbon and nitrogen sources to fabricate three-dimensional N-doped porous carbon electrocatalysts for the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4095-101	3.6	79
434	Vertically aligned nanorod-like rutile TiO ₂ single crystal nanowire bundles with superior electron transport and photoelectrocatalytic properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2465-2472		79
433	Structural and photocatalytic degradation characteristics of hydrothermally treated mesoporous TiO ₂ . <i>Applied Catalysis A: General</i> , 2008 , 350, 237-243	5.1	77
432	Encapsulation of Plasmid DNA by Nanoscale Metal-Organic Frameworks for Efficient Gene Transportation and Expression. <i>Advanced Materials</i> , 2019 , 31, e1901570	24	76
431	Monodisperse hollow spheres with sandwich heterostructured shells as high-performance catalysts via an extended SiO ₂ template method. <i>Small</i> , 2015 , 11, 420-5	11	76
430	Enhanced hydrogen desorption from Mg(BH ₄) ₂ by combining nanoconfinement and a Ni catalyst. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3471	13	76
429	Strongly Coupled CoCr ₂ O ₄ /Carbon Nanosheets as High Performance Electrocatalysts for Oxygen Evolution Reaction. <i>Small</i> , 2016 , 12, 2866-71	11	76
428	Macroscale cobalt-MOFs derived metallic Co nanoparticles embedded in N-doped porous carbon layers as efficient oxygen electrocatalysts. <i>Applied Surface Science</i> , 2017 , 392, 402-409	6.7	75
427	Low-temperature processed In ₂ S ₃ electron transport layer for efficient hybrid perovskite solar cells. <i>Nano Energy</i> , 2017 , 36, 102-109	17.1	74
426	Housing Sulfur in Polymer Composite Frameworks for Li-S Batteries. <i>Nano-Micro Letters</i> , 2019 , 11, 17	19.5	74
425	Directly hydrothermal growth of single crystal Nb ₃ O ₇ (OH) nanorod film for high performance dye-sensitized solar cells. <i>Advanced Materials</i> , 2012 , 24, 1598-603	24	74
424	Hierarchical CoO@N-Doped Carbon Composite as an Advanced Anode Material for Ultrastable Potassium Storage. <i>ACS Nano</i> , 2020 , 14, 5027-5035	16.7	73
423	Enhanced Visible-Light-Driven Photocatalytic Bacterial Inactivation by Ultrathin Carbon-Coated Magnetic Cobalt Ferrite Nanoparticles. <i>Environmental Science & Technology</i> , 2018 , 52, 4774-4784	10.3	73
422	Titania single crystals with a curved surface. <i>Nature Communications</i> , 2014 , 5, 5355	17.4	73
421	Catalyst-free activation of persulfate by visible light for water disinfection: Efficiency and mechanisms. <i>Water Research</i> , 2019 , 157, 106-118	12.5	72

4 ²⁰	Potential for layered double hydroxides-based, innovative drug delivery systems. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 7409-28	6.3	72
4 ¹⁹	Electrocatalytically Active Fe-(O-C) Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13423-13429	16.4	71
4 ¹⁸	Directly hydrothermal growth of ultrathin MoS ₂ nanostructured films as high performance counter electrodes for dye-sensitised solar cells. <i>RSC Advances</i> , 2014 , 4, 21277	3.7	70
4 ¹⁷	One-step synthesis of nitrogen-doped microporous carbon materials as metal-free electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11666-11671	13	70
4 ¹⁶	Titanium dioxide-based DGT for measuring dissolved As(V), V(V), Sb(V), Mo(VI) and W(VI) in water. <i>Talanta</i> , 2013 , 105, 80-6	6.2	70
4 ¹⁵	Single crystal β -Fe ₂ O ₃ with exposed {104} facets for high performance gas sensor applications. <i>RSC Advances</i> , 2012 , 2, 6178	3.7	70
4 ¹⁴	A Gradient Heterostructure Based on Tolerance Factor in High-Performance Perovskite Solar Cells with 0.84 Fill Factor. <i>Advanced Materials</i> , 2019 , 31, e1804217	24	70
4 ¹³	In situ growth of β -Fe ₂ O ₃ nanorod arrays on 3D carbon foam as an efficient binder-free electrode for highly sensitive and specific determination of nitrite. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4726-4736	13	68
4 ¹²	Fabrication of Highly Stable Metal Oxide Hollow Nanospheres and Their Catalytic Activity toward 4-Nitrophenol Reduction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18207-18214	9.5	68
4 ¹¹	A portable photoelectrochemical probe for rapid determination of chemical oxygen demand in wastewaters. <i>Environmental Science & Technology</i> , 2009 , 43, 7810-5	10.3	68
4 ¹⁰	Facile fabrication of anatase TiO ₂ microspheres on solid substrates and surface crystal facet transformation from {001} to {101}. <i>Chemistry - A European Journal</i> , 2011 , 17, 5949-57	4.8	67
4 ⁰⁹	Photoelectrochemical determination of chemical oxygen demand based on an exhaustive degradation model in a thin-layer cell. <i>Analytica Chimica Acta</i> , 2004 , 514, 89-97	6.6	67
4 ⁰⁸	Modified natural diatomite and its enhanced immobilization of lead, copper and cadmium in simulated contaminated soils. <i>Journal of Hazardous Materials</i> , 2015 , 289, 210-218	12.8	65
4 ⁰⁷	Engineered Hematite Mesoporous Single Crystals Drive Drastic Enhancement in Solar Water Splitting. <i>Nano Letters</i> , 2016 , 16, 427-33	11.5	65
4 ⁰⁶	Highly Ordered Single Crystalline Nanowire Array Assembled Three-Dimensional Nb ₃ O ₇ (OH) and Nb ₂ O ₅ Superstructures for Energy Storage and Conversion Applications. <i>ACS Nano</i> , 2016 , 10, 507-14	16.7	65
4 ⁰⁵	Determination of Iodide via Direct Fluorescence Quenching at Nitrogen-Doped Carbon Quantum Dot Fluorophores. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 87-91	11	65
4 ⁰⁴	Highly electrocatalytic activity of RuO ₄ nanocrystals for triiodide reduction in dye-sensitized solar cells. <i>Small</i> , 2014 , 10, 484-92, 483	11	65
4 ⁰³	Antibiotic-resistance gene transfer in antibiotic-resistance bacteria under different light irradiation: Implications from oxidative stress and gene expression. <i>Water Research</i> , 2019 , 149, 282-291	12.5	65

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