

# Huijun Zhao

## List of Publications by Year in Descending Order

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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	hcp-phased Ni nanoparticles with generic catalytic hydrogenation activities toward different functional groups. <i>Science China Materials</i> , <b>2022</b> , 65, 1252	7.1	1
562	Photocatalytic Hydrogen Production <b>2022</b> , 415-483		
561	TMN4 complex embedded graphene as efficient and selective electrocatalysts for chlorine evolution reactions. <i>Journal of Electroanalytical Chemistry</i> , <b>2022</b> , 907, 116071	4.1	4
560	High-throughput split-protein profiling by combining transposon mutagenesis and regulated protein-protein interactions with deep sequencing.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 203, 543-552	7.9	
559	Hollow carbon sphere encapsulated nickel nanoreactor for aqueous-phase hydrogenation-rearrangement tandem reaction with enhanced catalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 306, 121140	21.8	1
558	The stress response mechanisms of biofilm formation under sub-lethal photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 121200	21.8	2
557	¶Arsenene Monolayer: A Promising Electrocatalyst for Anodic Chlorine Evolution Reaction. <i>Catalysts</i> , <b>2022</b> , 12, 296	4	0
556	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO <sub>2</sub> Reduction in a Membrane Flow Cell (Adv. Funct. Mater. 11/2022). <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2270070	15.6	0
555	Hydrogen Spillover-Bridged Volmer/Tafel Processes Enabling Ampere-Level Current Density Alkaline Hydrogen Evolution Reaction under Low Overpotential.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	24
554	The typical structural evolution of silicon anode. <i>Cell Reports Physical Science</i> , <b>2022</b> , 100811	6.1	2
553	Facile synthesis of N, P co-doped carbon encapsulated Ni catalyst for green production of cyclopentanone from biomass derivative furfural. <i>Fuel</i> , <b>2022</b> , 319, 123815	7.1	0
552	Atomically-dispersed Mn-(N-C <sub>2</sub> ) <sub>2</sub> (O-C <sub>2</sub> ) <sub>2</sub> sites on carbon for efficient oxygen reduction reaction. <i>Energy Storage Materials</i> , <b>2022</b> , 49, 209-218	19.4	2
551	Operando Converting BiOCl into BiO(CO)Cl for Efficient Electrocatalytic Reduction of Carbon Dioxide to Formate.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 121	19.5	0
550	Flow-electrode capacitive deionization utilizing three-dimensional foam current collector for real seawater desalination. <i>Water Research</i> , <b>2022</b> , 220, 118642	12.5	0
549	Rational design of metal oxide catalysts for electrocatalytic water splitting. <i>Nanoscale</i> , <b>2021</b> ,	7.7	7
548	growth of MOFs on Ni(OH) <sub>2</sub> for efficient electrocatalytic oxidation of 5-hydroxymethylfurfural. <i>Chemical Communications</i> , <b>2021</b> , 57, 11358-11361	5.8	0
547	Interpolation between W Dopant and Co Vacancy in CoOOH for Enhanced Oxygen Evolution Catalysis. <i>Advanced Materials</i> , <b>2021</b> , e2104667	24	7

546	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO <sub>2</sub> Reduction in a Membrane Flow Cell. <i>Advanced Functional Materials</i> , <b>2021</b> , 2107301	15.6	5
545	Dual-atom Pt heterogeneous catalyst with excellent catalytic performances for the selective hydrogenation and epoxidation. <i>Nature Communications</i> , <b>2021</b> , 12, 3181	17.4	40
544	Grey hematite photoanodes decrease the onset potential in photoelectrochemical water oxidation. <i>Science Bulletin</i> , <b>2021</b> , 66, 1013-1021	10.6	4
543	Pseudocapacitive desalination via valence engineering with spindle-like manganese oxide/carbon composites. <i>Nano Research</i> , <b>2021</b> , 14, 4878	10	2
542	In Situ Growth of Ultrathin Ni(OH) <sub>2</sub> Nanosheets as Catalyst for Electrocatalytic Oxidation Reactions. <i>ChemSusChem</i> , <b>2021</b> , 14, 2935-2942	8.3	11
541	Integration of Fe <sub>2</sub> O <sub>3</sub> -based photoanode and atomically dispersed cobalt cathode for efficient photoelectrochemical NH <sub>3</sub> synthesis. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 805-810	8.1	7
540	Robust enhanced hydrogen production at acidic conditions over molybdenum oxides-stabilized ultrafine palladium electrocatalysts. <i>Nano Research</i> , <b>2021</b> , 14, 268-274	10	6
539	Tunable synthesis of imines and secondary-amines from tandem hydrogenation-coupling of aromatic nitro and aldehyde over NiCo <sub>5</sub> bi-metallic catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 280, 119448	21.8	10
538	Membrane-based colorimetric flow-injection system for online free chlorine monitoring in drinking water. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 327, 128905	8.5	5
537	Membrane-Based Portable Colorimetric Gaseous Chlorine Sensing Probe. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 769-776	7.8	6
536	Single-atom Fe with Fe <sub>1</sub> N <sub>3</sub> structure showing superior performances for both hydrogenation and transfer hydrogenation of nitrobenzene. <i>Science China Materials</i> , <b>2021</b> , 64, 642-650	7.1	59
535	Efficient electrocatalytic nitrogen reduction to ammonia with aqueous silver nanodots. <i>Communications Chemistry</i> , <b>2021</b> , 4,	6.3	9
534	Scalable and controllable fabrication of CNTs improved yolk-shelled Si anodes with advanced in operando mechanical quantification. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3502-3509	35.4	14
533	Converting Co <sup>2+</sup> -impregnated g-C <sub>3</sub> N <sub>4</sub> into N-doped CNTs-confined Co nanoparticles for efficient hydrogenation rearrangement reactions of furanic aldehydes. <i>Nano Research</i> , <b>2021</b> , 14, 2846-2852	10	4
532	Anchoring Single Copper Atoms to Microporous Carbon Spheres as High-Performance Electrocatalyst for Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104864	15.6	19
531	Intrinsic Pseudocapacitive Affinity in Manganese Spinel Ferrite Nanospheres for High-Performance Selective Capacitive Removal of Ca and Mg. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 38886-38896	8.5	2
530	Highly Dispersed Ru Nanoparticles on Boron-Doped Ti C T (MXene) Nanosheets for Synergistic Enhancement of Electrocatalytic Hydrogen Evolution. <i>Small</i> , <b>2021</b> , 17, e2102218	11	12
529	Crystal plane effect of ceria on supported copper catalyst for liquid-phase hydrogenation of unsaturated aldehyde. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 596, 34-43	9.3	1

528	Synchronous removal of tetracycline and water hardness ions by capacitive deionization. <i>Journal of Cleaner Production</i> , <b>2021</b> , 316, 128251	10.3	2
527	Encapsulated Ni-Co alloy nanoparticles as efficient catalyst for hydrodeoxygenation of biomass derivatives in water. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 2027-2037	11.3	7
526	Metagenomic profiles and health risks of pathogens and antibiotic resistance genes in various industrial wastewaters and the associated receiving surface water. <i>Chemosphere</i> , <b>2021</b> , 283, 131224	8.4	5
525	Real-time on-site monitoring of soil ammonia emissions using membrane permeation-based sensing probe. <i>Environmental Pollution</i> , <b>2021</b> , 289, 117850	9.3	2
524	Selective electrocatalytic hydrogenation of nitrobenzene over copper-platinum alloying catalysts: Experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120545	21.8	8
523	Electrocatalytically Active Fe-(O-C) Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 13423-13429	16.4	71
522	Highly dispersed nickel anchored on a N-doped carbon molecular sieve derived from metal-organic frameworks for efficient hydrodeoxygenation in the aqueous phase. <i>Chemical Communications</i> , <b>2020</b> , 56, 6696-6699	5.8	5
521	Activation strategies of water-splitting electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 100961-101293	10.12935	
520	Electrocatalytically Active Fe-(O-C <sub>2</sub> ) <sub>4</sub> Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13525-13531	3.6	14
519	Recent Advances in Perovskite-Based Building-Integrated Photovoltaics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000631	24	37
518	Lignosulfonate functionalized g-C <sub>3</sub> N <sub>4</sub> /carbonized wood sponge for highly efficient heavy metal ion scavenging. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12687-12698	13	29
517	Hierarchical CoO@N-Doped Carbon Composite as an Advanced Anode Material for Ultrastable Potassium Storage. <i>ACS Nano</i> , <b>2020</b> , 14, 5027-5035	16.7	73
516	Approaching the activity limit of CoSe for oxygen evolution via Fe doping and Co vacancy. <i>Nature Communications</i> , <b>2020</b> , 11, 1664	17.4	104
515	Transition Metal (Fe, Co, Mn) Boosting the Lithium Storage of the Multishelled NiO Anode. <i>Energy Technology</i> , <b>2020</b> , 8, 2000008	3.5	5
514	Laser Irradiation in Liquid to Release Cobalt Single-Atom Sites for Efficient Electrocatalytic N <sub>2</sub> Reduction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6079-6086	6.1	9
513	How Cobalt and Iron Doping Determine the Oxygen Evolution Electrocatalytic Activity of NiOOH. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100077	6.1	15
512	Phosphorus and Sulfur Co-Doped Cobaltous Oxide Synthesized by an Inorganic-Salt-Assisted Method: Reaction Mechanism and Electrocatalytic Application. <i>ChemPlusChem</i> , <b>2020</b> , 85, 1602-1611	2.8	2
511	Formation of B?N?C Coordination to Stabilize the Exposed Active Nitrogen Atoms in g-C N for Dramatically Enhanced Photocatalytic Ammonia Synthesis Performance. <i>Small</i> , <b>2020</b> , 16, e1906880	11	43

510	Accelerated evolution of bacterial antibiotic resistance through early emerged stress responses driven by photocatalytic oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 269, 118829	21.8	29
509	Fabrication of hierarchically porous NH <sub>2</sub> -MIL-53/wood-carbon hybrid membrane for highly effective and selective sequestration of Pb <sup>2+</sup> . <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124141	14.7	25
508	Ensembles of Photonic Beads: Optical Properties and Enhanced Light-Matter Interactions. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901537	8.1	11
507	Manganese oxides transformed from orthorhombic phase to birnessite with enhanced electrochemical performance as supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3746-3753	13	10
506	An inverted BiI <sub>3</sub> /PCBM binary quasi-bulk heterojunction solar cell with a power conversion efficiency of 1.50%. <i>Nano Energy</i> , <b>2020</b> , 73, 104799	17.1	11
505	In situ growth of well-aligned Ni-MOF nanosheets on nickel foam for enhanced photocatalytic degradation of typical volatile organic compounds. <i>Nanoscale</i> , <b>2020</b> , 12, 9462-9470	7.7	31
504	CoO <sub>x</sub> @Co Nanoparticle-based Catalyst for Efficient Selective Transfer Hydrogenation of $\alpha$ -Unsaturated Aldehydes. <i>ChemCatChem</i> , <b>2020</b> , 12, 1019-1024	5.2	3
503	Electrodeposition of hierarchically amorphous FeOOH nanosheets on carbonized bamboo as an efficient filter membrane for As(III) removal. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123773	14.7	18
502	Fe-Co Alloyed Nanoparticles Catalyzing Efficient Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in Water. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 23727-23732	3.6	1
501	Cobalt-doped Mn <sub>3</sub> O <sub>4</sub> nanocrystals embedded in graphene nanosheets as a high-performance bifunctional oxygen electrocatalyst for rechargeable Zn-Air batteries. <i>Green Energy and Environment</i> , <b>2020</b> , 5, 499-505	5.7	25
500	Fast and cost-effective room temperature synthesis of high quality graphene oxide with excellent structural intactness. <i>Sustainable Materials and Technologies</i> , <b>2020</b> , 25, e00198	5.3	0
499	Effects of compositional engineering and surface passivation on the properties of halide perovskites: a theoretical understanding. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 19718-19724	3.6	4
498	Perovskite Microcrystals with Intercalated Monolayer MoS <sub>2</sub> Nanosheets as Advanced Photocatalyst for Solar-Powered Hydrogen Generation. <i>Matter</i> , <b>2020</b> , 3, 935-949	12.7	34
497	Selective Growth of High-Density Anatase {101} Twin Boundaries on High-Energy {001} Facets. <i>Small Structures</i> , <b>2020</b> , 1, 2000025	8.7	10
496	Coexisting Single-Atomic Fe and Ni Sites on Hierarchically Ordered Porous Carbon as a Highly Efficient ORR Electrocatalyst. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004670	24	170
495	Rational Design of Cobalt-Platinum Alloy Decorated Cobalt Nanoparticles for One-Pot Synthesis of Imines from Nitroarenes and Aldehydes. <i>ChemCatChem</i> , <b>2020</b> , 12, 5948-5958	5.2	4
494	Fe-Co Alloyed Nanoparticles Catalyzing Efficient Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in Water. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 23521-23526	16.4	36
493	Selective Pseudocapacitive Deionization of Calcium Ions in Copper Hexacyanoferrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41437-41445	9.5	17

492	2D Electrocatalysts for Converting Earth-Abundant Simple Molecules into Value-Added Commodity Chemicals: Recent Progress and Perspectives. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904870	24	49
491	Porous carbon nanosheets functionalized with Fe <sub>3</sub> O <sub>4</sub> nanoparticles for capacitive removal of heavy metal ions from water. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 331-340	4.2	17
490	Stable Seamless Interfaces and Rapid Ionic Conductivity of CaTeO <sub>2</sub> /LiTFSI/PEO Composite Electrolyte for High-Rate and High-Voltage All-Solid-State Battery. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000049	21.8	101
489	Potassium-Ion-Assisted Regeneration of Active Cyano Groups in Carbon Nitride Nanoribbons: Visible-Light-Driven Photocatalytic Nitrogen Reduction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16797-16803	3.6	16
488	Potassium-Ion-Assisted Regeneration of Active Cyano Groups in Carbon Nitride Nanoribbons: Visible-Light-Driven Photocatalytic Nitrogen Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16644-16650	16.4	180
487	Theoretical Understanding of Electrocatalytic Hydrogen Production Performance by Low-Dimensional Metal-Organic Frameworks on the Basis of Resonant Charge-Transfer Mechanisms. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 6955-6961	6.4	4
486	Sub-lethal photocatalysis bactericidal technology cause longer persistence of antibiotic-resistance mutant and plasmid through the mechanism of reduced fitness cost. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 698-705	21.8	18
485	Membrane-based conductivity probe for real-time in-situ monitoring rice field ammonia volatilization. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 286, 62-68	8.5	8
484	The electrochemical corrosion of an air thermally-treated carbon fiber cloth electrocatalyst with outstanding oxygen evolution activity under alkaline conditions. <i>Chemical Communications</i> , <b>2019</b> , 55, 2344-2347	5.8	8
483	Nitrogen-Doped Carbon Nanotube Confined Co-N Sites for Selective Hydrogenation of Biomass-Derived Compounds. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808341	24	83
482	Scalable Production of Graphene Oxide Using a 3D-Printed Packed-Bed Electrochemical Reactor with a Boron-Doped Diamond Electrode. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 867-878	5.6	25
481	Experimental and theoretical understanding on electrochemical activation and inactivation processes of Nb <sub>3</sub> O <sub>7</sub> (OH) for ambient electrosynthesis of NH <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16969-16978	13	28
480	Online Conductimetric Flow-Through Analyzer Based on Membrane Diffusion for Ammonia Control in Wastewater Treatment Process. <i>ACS Sensors</i> , <b>2019</b> , 4, 1881-1888	9.2	9
479	Encapsulation of Plasmid DNA by Nanoscale Metal-Organic Frameworks for Efficient Gene Transportation and Expression. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901570	24	76
478	Design of three-dimensional hierarchical TiO <sub>2</sub> /SrTiO <sub>3</sub> heterostructures towards selective CO <sub>2</sub> photoreduction. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 1667-1674	6.8	20
477	Enhanced CO <sub>2</sub> electroreduction performance over Cl-modified metal catalysts. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12420-12425	13	24
476	A hierarchical hybrid monolith: MoS <sub>4</sub> intercalated NiFe layered double hydroxide nanosheet arrays assembled on carbon foam for highly efficient heavy metal removal. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12869-12881	13	38
475	A Yolk-Shell Structured Silicon Anode with Superior Conductivity and High Tap Density for Full Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 8824-8828	16.4	165



474	A Yolk-Shell Structured Silicon Anode with Superior Conductivity and High Tap Density for Full Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 8916-8920	3.6	16
473	Converting eggplant biomass into multifunctional porous carbon electrodes for self-powered capacitive deionization. <i>Environmental Science: Water Research and Technology</i> , <b>2019</b> , 5, 1054-1063	4.2	10
472	Regulating the Catalytic Performance of Single-Atomic-Site Ir Catalyst for Biomass Conversion by Metal-Support Interactions. <i>ACS Catalysis</i> , <b>2019</b> , 9, 5223-5230	13.1	52
471	Room temperature production of graphene oxide with thermally labile oxygen functional groups for improved lithium ion battery fabrication and performance. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9646-9655	13	16
470	Housing Sulfur in Polymer Composite Frameworks for Li-S Batteries. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 17	19.5	74
469	Catalyst-free activation of persulfate by visible light for water disinfection: Efficiency and mechanisms. <i>Water Research</i> , <b>2019</b> , 157, 106-118	12.5	72
468	Construction of Pd/BiOCl Catalyst for Highly-selective Synthesis of Benzoin Ethyl Ether by Chlorine Promoted Coupling Reaction. <i>ChemCatChem</i> , <b>2019</b> , 11, 2676-2682	5.2	3
467	Enhancement of the visible-light photocatalytic activity of CeO <sub>2</sub> by chemisorbed oxygen in the selective oxidation of benzyl alcohol. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 7355-7362	3.6	17
466	Highly sensitive detection of nitrite by using gold nanoparticle-decorated Fe <sub>2</sub> O <sub>3</sub> nanorod arrays as self-supporting photo-electrodes. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 1432-1441	6.8	12
465	Hierarchical Porous Carbon Materials Derived from Kelp for Superior Capacitive Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 8735-8743	8.3	42
464	Ambient Electrosynthesis of Ammonia on a Core-Shell-Structured Au@CeO Catalyst: Contribution of Oxygen Vacancies in CeO. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 5904-5911	4.8	44
463	A versatile PDMS submicrobead/graphene oxide nanocomposite ink for the direct ink writing of wearable micron-scale tactile sensors. <i>Applied Materials Today</i> , <b>2019</b> , 16, 482-492	6.6	56
462	Recent Progress of Direct Ink Writing of Electronic Components for Advanced Wearable Devices. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 1718-1734	4	54
461	The role of electrolyte acid concentration in the electrochemical exfoliation of graphite: Mechanism and synthesis of electrochemical graphene oxide. <i>Nano Materials Science</i> , <b>2019</b> , 1, 215-223	10.2	23
460	A Hollow-Shell Structured V <sub>2</sub> O <sub>5</sub> Electrode-Based Symmetric Full Li-Ion Battery with Highest Capacity. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900909	21.8	35
459	Liberating N-CNTs Confined Highly Dispersed Co <sup>2+</sup> Sites for Selective Hydrogenation of Quinolines. <i>Advanced Materials</i> , <b>2019</b> , 31, e1906051	24	40
458	Dramatically Enhanced Ambient Ammonia Electrosynthesis Performance by In-Operando Created Li <sup>+</sup> Interactions on MoS <sub>2</sub> Electrocatalyst. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803935	21.8	149
457	Theoretical study of single transition metal atom modified MoP as a nitrogen reduction electrocatalyst. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 5950-5955	3.6	35

456	Cu doping in CeO to form multiple oxygen vacancies for dramatically enhanced ambient N reduction performance. <i>Chemical Communications</i> , <b>2019</b> , 55, 2952-2955	5.8	96
455	Sulfur-doped cobalt oxide nanowires as efficient electrocatalysts for iodine reduction reaction. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 772, 80-91	5.7	10
454	2D/2D Heterostructured UNiMOF/g-C3N4 for Enhanced Photocatalytic H2 Production under Visible-Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 2492-2499	8.3	52
453	Rapid-Heating-Triggered in Situ Solid-State Transformation of Amorphous TiO2 Nanotubes into Well-Defined Anatase Nanocrystals. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 1086-1094	3.5	3
452	Ambient Electrosynthesis of Ammonia on a Biomass-Derived Nitrogen-Doped Porous Carbon Electrocatalyst: Contribution of Pyridinic Nitrogen. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 377-383	20.1	93
451	Manipulating the assembled structure of atomically thin CoSe2 nanomaterials for enhanced water oxidation catalysis. <i>Nano Energy</i> , <b>2019</b> , 57, 371-378	17.1	16
450	A Gradient Heterostructure Based on Tolerance Factor in High-Performance Perovskite Solar Cells with 0.84 Fill Factor. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804217	24	70
449	Antibiotic-resistance gene transfer in antibiotic-resistance bacteria under different light irradiation: Implications from oxidative stress and gene expression. <i>Water Research</i> , <b>2019</b> , 149, 282-291	12.5	65
448	Wet-chemistry grafted active pyridinic nitrogen sites on holey graphene edges as high performance ORR electrocatalyst for Zn-Air Batteries. <i>Materials Today Energy</i> , <b>2019</b> , 11, 24-29	7	16
447	Correlating electrocatalytic activities with sulfur species on sulfur-doped cobalt oxide. <i>Materials Letters</i> , <b>2019</b> , 236, 614-617	3.3	1
446	Tungsten-Doped Nanocrystalline V6O13 Nanoparticles as Low-Cost and High-Performance Electrodes for Energy Storage Devices. <i>Energy Technology</i> , <b>2019</b> , 7, 1801041	3.5	8
445	Simultaneously high-rate furfural hydrogenation and oxidation upgrading on nanostructured transition metal phosphides through electrocatalytic conversion at ambient conditions. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 899-908	21.8	62
444	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> , <b>2019</b> , 9, 1802936	21.8	99
443	Facile fabrication of composition-tunable Fe/Mg bimetal-organic frameworks for exceptional arsenate removal. <i>Chemical Engineering Journal</i> , <b>2019</b> , 357, 579-588	14.7	65
442	Cobalt-based composite films on electrochemically activated carbon cloth as high performance overall water splitting electrodes. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 23-33	6.7	22
441	Evaluating death and activity decay of Anammox bacteria during anaerobic and aerobic starvation. <i>Chemosphere</i> , <b>2018</b> , 201, 25-31	8.4	38
440	Transformation of carbon-encapsulated metallic Co into ultrafine Co/CoO nanoparticles exposed on N-doped graphitic carbon for high-performance rechargeable zinc-air battery. <i>Applied Surface Science</i> , <b>2018</b> , 448, 369-379	6.7	19
439	AgInS2/In2S3 heterostructure sensitization of Escherichia coli for sustainable hydrogen production. <i>Nano Energy</i> , <b>2018</b> , 46, 234-240	17.1	50



438	X-Shaped $\beta$ -FeOOH with Enhanced Charge Separation for Visible-Light-Driven Photocatalytic Overall Water Splitting. <i>ChemSusChem</i> , <b>2018</b> , 11, 1365-1373	8.3	31
437	NiFe-Layered Double Hydroxide Nanosheet Arrays Supported on Carbon Cloth for Highly Sensitive Detection of Nitrite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 6541-6551	9.5	92
436	N-Modified NiO Surface for Superior Alkaline Hydrogen Evolution. <i>ChemSusChem</i> , <b>2018</b> , 11, 1020-1024	8.3	9
435	A Hierarchical Z-Scheme $\beta$ -Fe <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> Hybrid for Enhanced Photocatalytic CO Reduction. <i>Advanced Materials</i> , <b>2018</b> , 30, 1706108	24	544
434	Notable hydrogen production on $\text{La}_{0.8}\text{Ca}_{0.2}\text{CoO}_3$ perovskites via two-step thermochemical water splitting. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 6796-6806	4.3	15
433	Enhanced Thermochemical H <sub>2</sub> Production on Ca-Doped Lanthanum Manganite Perovskites Through Optimizing the Dopant Level and Re-oxidation Temperature. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2018</b> , 31, 431-439	2.5	6
432	Hydroxyapatite nanoparticles in root cells: reducing the mobility and toxicity of Pb in rice. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 398-407	7.1	14
431	Hierarchical MgFe-layered double hydroxide microsphere/graphene composite for simultaneous electrochemical determination of trace Pb(II) and Cd(II). <i>Chemical Engineering Journal</i> , <b>2018</b> , 347, 953-962	14.7	56
430	Sulfonate group modified Ni catalyst for highly efficient liquid-phase selective hydrogenation of bio-derived furfural. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 1617-1620	8.1	11
429	Enhanced Visible-Light-Driven Photocatalytic Bacterial Inactivation by Ultrathin Carbon-Coated Magnetic Cobalt Ferrite Nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 4774-4784	10.3	73
428	Electrolyte Effect on Electrocatalytic Hydrogen Evolution Performance of One-Dimensional Cobalt-Dithiolene Metal-Organic Frameworks: A Theoretical Perspective. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1688-1694	6.1	14
427	Selective Determination of Cr(VI) by Glutaraldehyde Cross-Linked Chitosan Polymer Fluorophores. <i>ACS Sensors</i> , <b>2018</b> , 3, 792-798	9.2	36
426	Electrocatalytic oxidation of benzyl alcohol for simultaneously promoting H <sub>2</sub> evolution by a Co <sub>0.83</sub> Ni <sub>0.17</sub> /activated carbon electrocatalyst. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 6381-6388	3.6	17
425	One-step synthesis of cobalt-doped MoS <sub>2</sub> nanosheets as bifunctional electrocatalysts for overall water splitting under both acidic and alkaline conditions. <i>Chemical Communications</i> , <b>2018</b> , 54, 3859-3862	5.8	130
424	Micro/nanostructured porous ZnO as a new DGT binding phase for selective measurement of Cu(II) in water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 537, 109-115	5.1	9
423	Few-layer graphdiyne doped with sp <sup>2</sup> -hybridized nitrogen atoms at acetylenic sites for oxygen reduction electrocatalysis. <i>Nature Chemistry</i> , <b>2018</b> , 10, 924-931	17.6	379
422	Highly Dispersed Copper Nanoparticles Supported on Activated Carbon as an Efficient Catalyst for Selective Reduction of Vanillin. <i>Small</i> , <b>2018</b> , 14, e1801953	11	33
421	Iron Vacancies Induced Bifunctionality in Ultrathin Feroxyhyte Nanosheets for Overall Water Splitting. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803144	24	160

420	Facile synthesis of ultra-thin CoxNi(1-x)/C nano-sheets and their remarkable catalytic properties in 4-nitrophenol reduction. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 5239-5248	6.8	4
419	An efficient and reusable bimetallic Ni3Fe NPs@C catalyst for selective hydrogenation of biomass-derived levulinic acid to Valerolactone. <i>Chinese Journal of Catalysis</i> , <b>2018</b> , 39, 1599-1607	11.3	25
418	Spontaneous Redox Approach to the Self-Assembly Synthesis of Au/CeO Plasmonic Photocatalysts with Rich Oxygen Vacancies for Selective Photocatalytic Conversion of Alcohols. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 31394-31403	9.5	48
417	Sandwich-Like Reduced Graphene Oxide/Carbon Black/Amorphous Cobalt Borate Nanocomposites as Bifunctional Cathode Electrocatalyst in Rechargeable Zinc-Air Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801495	21.8	44
416	Bimetallic Carbide as a Stable Hydrogen Evolution Catalyst in Harsh Acidic Water. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 78-84	20.1	35
415	Remarkably enhanced water splitting activity of nickel foam due to simple immersion in a ferric nitrate solution. <i>Nano Research</i> , <b>2018</b> , 11, 3959-3971	10	45
414	Biomass-derived N-doped porous carbon as electrode materials for Zn-air battery powered capacitive deionization. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 1270-1280	14.7	134
413	Vapor-phase hydrothermal growth of single crystalline NiS2 nanostructure film on carbon fiber cloth for electrocatalytic oxidation of alcohols to ketones and simultaneous H2 evolution. <i>Nano Research</i> , <b>2018</b> , 11, 1004-1017	10	37
412	The catalytic behaviour in aqueous-phase hydrogenation over a renewable Ni catalyst derived from a perovskite-type oxide. <i>Dalton Transactions</i> , <b>2018</b> , 47, 17276-17284	4.3	5
411	Zirconium metal organic frameworks-based DGT technique for in situ measurement of dissolved reactive phosphorus in waters. <i>Water Research</i> , <b>2018</b> , 147, 223-232	12.5	16
410	In Situ Synthesis of Highly Dispersed Cu@Co Bimetallic Nanoparticles for Tandem Hydrogenation/Rearrangement of Bioderived Furfural in Aqueous-Phase. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 14919-14925	8.3	28
409	Three-Dimensional N-doped Porous Carbon Derived from Monosodium Glutamate for Capacitive Deionization and the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , <b>2018</b> , 5, 3873-3880	4.3	9
408	Correlation between Mechanical Strength of Amorphous TiO2 Nanotubes and Their Solid State Crystallization Pathways. <i>ChemistrySelect</i> , <b>2018</b> , 3, 10711-10716	1.8	
407	Ultrathin Nitrogen-Doped Holey Carbon@Graphene Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions in Alkaline and Acidic Media. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16749-16753	26	41
406	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> , <b>2018</b> , 57, 16511-16515	16.4	190
405	Highly dispersed Co and Ni nanoparticles encapsulated in N-doped carbon nanotubes as efficient catalysts for the reduction of unsaturated oxygen compounds in aqueous phase. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 5506-5514	5.5	26
404	Vapor-phase hydrothermal transformation of a nanosheet array structure Ni(OH)2 into ultrathin Ni3S2 nanosheets on nickel foam for high-efficiency overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19201-19209	13	38
403	Carbothermal Methods: Highly Dispersed Copper Nanoparticles Supported on Activated Carbon as an Efficient Catalyst for Selective Reduction of Vanillin (Small 36/2018). <i>Small</i> , <b>2018</b> , 14, 1870164	11	1

402	Nitrogen-free commercial carbon cloth with rich defects for electrocatalytic ammonia synthesis under ambient conditions. <i>Chemical Communications</i> , <b>2018</b> , 54, 11188-11191	5.8	59
401	Revealing the Role of Electrocatalyst Crystal Structure on Oxygen Evolution Reaction with Nickel as an Example. <i>Small</i> , <b>2018</b> , 14, e1802895	11	13
400	Feroxyhyte Nanosheets: Iron Vacancies Induced Bifunctionality in Ultrathin Feroxyhyte Nanosheets for Overall Water Splitting (Adv. Mater. 36/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870272	24	13
399	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> , <b>2018</b> , 140, 11161-11164	16.4	120
398	Cobalt Covalent Doping in MoS to Induce Bifunctionality of Overall Water Splitting. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801450	24	273
397	Ultrathin Transition Metal Dichalcogenide/3d Metal Hydroxide Hybridized Nanosheets to Enhance Hydrogen Evolution Activity. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801171	24	134
396	Transfer-hydrogenation of furfural and levulinic acid over supported copper catalyst. <i>Fuel</i> , <b>2018</b> , 231, 165-171	7.1	49
395	Enhanced Thermochemical Water Splitting through Formation of Oxygen Vacancy in La Sr BO (B=Cr, Mn, Fe, Co, and Ni) Perovskites. <i>ChemPlusChem</i> , <b>2018</b> , 83, 924-928	2.8	10
394	Ball Milling-Induced Plate-like Sub-microstructured Iron for Enhancing Degradation of DDT in a Real Soil Environment. <i>ACS Omega</i> , <b>2018</b> , 3, 6955-6961	3.9	2
393	Nature-based catalyst for visible-light-driven photocatalytic CO <sub>2</sub> reduction. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2382-2389	35.4	145
392	Engineering Hybrid Guided Modes in Subwavelength Uniaxial Metamaterial Waveguides. <i>Plasmonics</i> , <b>2017</b> , 12, 245-255	2.4	1
391	In situ growth of Fe <sub>2</sub> O <sub>3</sub> 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> , <b>2017</b> , 5, 4726-4736	13	68
390	Activation of persulfates by natural magnetic pyrrhotite for water disinfection: Efficiency, mechanisms, and stability. <i>Water Research</i> , <b>2017</b> , 112, 236-247	12.5	108
389	Tropane alkaloids from the Australian plant <i>Triunia montana</i> (Proteaceae). <i>Tetrahedron Letters</i> , <b>2017</b> , 58, 736-739	2	3
388	Self-assembled Pd/CeO <sub>2</sub> catalysts by a facile redox approach for high-efficiency hydrogenation of levulinic acid into gamma-valerolactone. <i>Catalysis Communications</i> , <b>2017</b> , 93, 10-14	3.2	27
387	Few-Layer Graphdiyne Nanosheets Applied for Multiplexed Real-Time DNA Detection. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606755	24	153
386	Photocatalytic nanomaterials for solar-driven bacterial inactivation: recent progress and challenges. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 782-799	7.1	185
385	Efficient Synthesis of Furfuryl Alcohol from H <sub>2</sub> -Hydrogenation/Transfer Hydrogenation of Furfural Using Sulfonate Group Modified Cu Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 2172-2180	8.3	136

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383	Interaction between bacterial cell membranes and nano-TiO revealed by two-dimensional FTIR correlation spectroscopy using bacterial ghost as a model cell envelope. <i>Water Research</i> , <b>2017</b> , 118, 104-113	12.5	30
382	Two-dimensional CoNi nanoparticles@S,N-doped carbon composites derived from S,N-containing Co/Ni MOFs for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9873-9881	13	52
381	One-pot redox synthesis of Pt/Fe <sub>3</sub> O <sub>4</sub> catalyst for efficiently chemoselective hydrogenation of cinnamaldehyde. <i>RSC Advances</i> , <b>2017</b> , 7, 21107-21113	3.7	10
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379	Low-temperature processed In <sub>2</sub> S <sub>3</sub> electron transport layer for efficient hybrid perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 36, 102-109	17.1	74
378	Triphasic 2D Materials by Vertically Stacking Laterally Heterostructured 2H-/1T?-MoS <sub>2</sub> on Graphene for Enhanced Photoresponse. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700024	6.4	25
377	Fabrication of Highly Stable Metal Oxide Hollow Nanospheres and Their Catalytic Activity toward 4-Nitrophenol Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 18207-18214	9.5	68
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375	Enhanced photocatalytic inactivation of Escherichia coli by a novel Z-scheme g-C <sub>3</sub> N <sub>4</sub> /m-Bi <sub>2</sub> O <sub>4</sub> hybrid photocatalyst under visible light: The role of reactive oxygen species. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 214, 23-33	21.8	158
374	Carbon-encapsulated heazlewoodite nanoparticles as highly efficient and durable electrocatalysts for oxygen evolution reactions. <i>Nano Research</i> , <b>2017</b> , 10, 3522-3533	10	23
373	A reliable sewage quality abnormal event monitoring system. <i>Water Research</i> , <b>2017</b> , 121, 248-257	12.5	14
372	Earth-abundant Ni <sub>2</sub> P/g-C <sub>3</sub> N <sub>4</sub> lamellar nanohybrids for enhanced photocatalytic hydrogen evolution and bacterial inactivation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 217, 570-580	21.8	228
371	FeOOH Nanorods/Carbon Foam-Based Hierarchically Porous Monolith for Highly Effective Arsenic Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 13480-13490	9.5	92
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369	Co <sub>9</sub> S <sub>8</sub> @N,P-doped porous carbon electrocatalyst using biomass-derived carbon nanodots as a precursor for overall water splitting in alkaline media. <i>RSC Advances</i> , <b>2017</b> , 7, 19181-19188	3.7	54
368	Thermally Induced Crystallization of High Quality CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Film with Large Grains for Highly Efficient Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5658-5662	4.8	6
367	Molten Salt-Assisted Growth of Perovskite Films with Submillimeter-Sized Grains. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 524-529	3.9	3

366	Composite Yttrium-Carbonaceous Spheres Templated Multi-Shell YVO Hollow Spheres with Superior Upconversion Photoluminescence. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604377	24	39
365	S,N-Containing Co-MOF derived Co <sub>9</sub> S <sub>8</sub> @S,N-doped carbon materials as efficient oxygen electrocatalysts and supercapacitor electrode materials. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 491-498	6.8	86
364	Probing the intracellular organic matters released from the photocatalytic inactivation of bacteria using fractionation procedure and excitation-emission-matrix fluorescence. <i>Water Research</i> , <b>2017</b> , 110, 270-280	12.5	23
363	Highly selective liquid-phase hydrogenation of furfural over N-doped carbon supported metallic nickel catalyst under mild conditions. <i>Molecular Catalysis</i> , <b>2017</b> , 429, 51-59	3.3	57
362	Photocatalytic and Photoelectrocatalytic Inactivation Mechanism of Biohazards. <i>Green Chemistry and Sustainable Technology</i> , <b>2017</b> , 221-237	1.1	1
361	Gas-Permeable Membrane-Based Conductivity Probe Capable of In Situ Real-Time Monitoring of Ammonia in Aquatic Environments. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 13265-13273	10.3	17
360	Bifunctional NH <sub>2</sub> -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> , <b>2017</b> , 5, 23794-23804	13	148
359	Efficient Synthesis of 2-Methylfuran from Bio-Derived Furfural over Supported Copper Catalyst: The Synergistic Effect of CuOx and Cu. <i>ChemistrySelect</i> , <b>2017</b> , 2, 9984-9991	1.8	11
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357	Size Modulation of Zirconium-Based Metal Organic Frameworks for Highly Efficient Phosphate Remediation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 32151-32160	9.5	83
356	Vapour-phase hydrothermal synthesis of Ni <sub>2</sub> P nanocrystallines on carbon fiber cloth for high-efficiency H <sub>2</sub> production and simultaneous urea decomposition. <i>Electrochimica Acta</i> , <b>2017</b> , 254, 44-49	6.7	43
355	Rechargeable Batteries: Formation of Septuple-Shelled (Co <sub>2</sub> /3Mn <sub>1</sub> /3)(Co <sub>5</sub> /6Mn <sub>1</sub> /6)O <sub>4</sub> Hollow Spheres as Electrode Material for Alkaline Rechargeable Battery (Adv. Mater. 34/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	10
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353	Natural magnetic pyrrhotite as a high-Efficient persulfate activator for micropollutants degradation: Radicals identification and toxicity evaluation. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 340, 435-444	12.8	52
352	La <sub>1</sub> -Ca Mn <sub>1</sub> -Al O <sub>3</sub> perovskites as efficient catalysts for two-step thermochemical water splitting in conjunction with exceptional hydrogen yields. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 1079-1086	11.3	16
351	Formation of Septuple-Shelled (Co Mn) <sub>2</sub> (Co Mn) <sub>2</sub> O <sub>4</sub> Hollow Spheres as Electrode Material for Alkaline Rechargeable Battery. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700550	24	108
350	Ni <sub>2</sub> P(O)/Fe <sub>2</sub> P(O) Interface Can Boost Oxygen Evolution Electrocatalysis. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2257-2263	20.1	116
349	Determination of mercury in aquatic systems by DGT device using thiol-modified carbon nanoparticle suspension as the liquid binding phase. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 10305-10311	3.6	16



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347	Genome-scale characterization of RNA tertiary structures and their functional impact by RNA solvent accessibility prediction. <i>Rna</i> , <b>2017</b> , 23, 14-22	5.8	17
346	Photoelectrocatalytic Materials for Water Disinfection. <i>Green Chemistry and Sustainable Technology</i> , <b>2017</b> , 199-219	1.1	1
345	Dually Ordered Porous TiO <sub>2</sub> -rGO Composites with Controllable Light Absorption Properties for Efficient Solar Energy Conversion. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604795	24	59
344	Macroscale cobalt-MOFs derived metallic Co nanoparticles embedded in N-doped porous carbon layers as efficient oxygen electrocatalysts. <i>Applied Surface Science</i> , <b>2017</b> , 392, 402-409	6.7	75
343	Highly efficient removal of hexavalent chromium in aqueous solutions via chemical reduction of plate-like micro/nanostructured zero valent iron. <i>RSC Advances</i> , <b>2017</b> , 7, 55905-55911	3.7	22
342	Chemoselective Transfer Hydrogenation of Cinnamaldehyde over Activated Charcoal Supported Pt/Fe <sub>3</sub> O <sub>4</sub> Catalyst. <i>Chinese Journal of Chemical Physics</i> , <b>2017</b> , 30, 467-473	0.9	8
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340	Ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	1444
339	Functionalization of perovskite thin films with moisture-tolerant molecules. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	369
338	Multi-shelled metal oxides prepared via an anion-adsorption mechanism for lithium-ion batteries. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	304
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336	Differences in photoelectrocatalytic inactivation processes between E. coli and its isogenic single gene knockoff mutants: Destruction of membrane framework or associated proteins?. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 188, 360-366	21.8	28
335	Enhanced simultaneous PEC eradication of bacteria and antibiotics by facilely fabricated high-activity {001} facets TiO <sub>2</sub> mounted onto TiO <sub>2</sub> nanotubular photoanode. <i>Water Research</i> , <b>2016</b> , 101, 597-605	12.5	33
334	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> , <b>2016</b> , 7, 5640-5646	9.4	108
333	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> , <b>2016</b> , 99, 149-161	12.5	102
332	Fluorescence Determination of Nitrite in Water Using Prawn-Shell Derived Nitrogen-Doped Carbon Nanodots as Fluorophores. <i>ACS Sensors</i> , <b>2016</b> , 1, 875-881	9.2	83
331	Soft-template assisted synthesis of mesoporous CuO/Cu <sub>2</sub> O composite hollow microspheres as efficient visible-light photocatalyst. <i>Materials Letters</i> , <b>2016</b> , 182, 47-51	3.3	18



330	The surface sulfur doping induced enhanced performance of cobalt catalysts in oxygen evolution reactions. <i>Chemical Communications</i> , <b>2016</b> , 52, 9450-3	5.8	34
329	Growth and in situ transformation of TiO <sub>2</sub> and HTiOF <sub>3</sub> crystals on chitosan-polyvinyl alcohol co-polymer substrates under vapor phase hydrothermal conditions. <i>Nano Research</i> , <b>2016</b> , 9, 745-754	10	16
328	The role of catalase and H <sub>2</sub> O <sub>2</sub> in photocatalytic inactivation of Escherichia coli: Genetic and biochemical approaches. <i>Catalysis Today</i> , <b>2016</b> , 266, 205-211	5.3	7
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326	Unveiling the photoelectrocatalytic inactivation mechanism of Escherichia coli: Convincing evidence from responses of parent and anti-oxidation single gene knockout mutants. <i>Water Research</i> , <b>2016</b> , 88, 135-143	12.5	37
325	Boron doped BiOBr nanosheets with enhanced photocatalytic inactivation of Escherichia coli. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 192, 35-45	21.8	156
324	Photocatalytic inactivation of Escherichia coli: The roles of genes in oxidation of fatty acid degradation. <i>Catalysis Today</i> , <b>2016</b> , 266, 219-225	5.3	4
323	Hollow mesoporous SiO <sub>2</sub> sphere nanoarchitectures with encapsulated silver nanoparticles for catalytic reduction of 4-nitrophenol. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 663-670	6.8	23
322	Numerical Modelling of Pore Pressure Accumulations in Marine Sediments around Submerged Breakwaters under Combined Wave and Current Loadings. <i>Journal of Coastal Research</i> , <b>2016</b> , 321, 1092-1104	9.6	104
321	Enhanced removal of trace Cr(VI) from neutral and alkaline aqueous solution by FeCo bimetallic nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 472, 8-15	9.3	37
320	A novel method developed for estimating mineralization efficiencies and its application in PC and PEC degradations of large molecule biological compounds with unknown chemical formula. <i>Water Research</i> , <b>2016</b> , 95, 150-8	12.5	6
319	Engineered Hematite Mesoporous Single Crystals Drive Drastic Enhancement in Solar Water Splitting. <i>Nano Letters</i> , <b>2016</b> , 16, 427-33	11.5	65
318	The influence of biochar type on long-term stabilization for Cd and Cu in contaminated paddy soils. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 304, 40-8	12.8	150
317	3D graphene/EMnO <sub>2</sub> aerogels for highly efficient and reversible removal of heavy metal ions. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1970-1979	13	211
316	Highly Ordered Single Crystalline Nanowire Array Assembled Three-Dimensional Nb <sub>3</sub> O <sub>7</sub> (OH) and Nb <sub>2</sub> O <sub>5</sub> Superstructures for Energy Storage and Conversion Applications. <i>ACS Nano</i> , <b>2016</b> , 10, 507-14	16.7	65
315	Controllable synthesis of mesostructures from TiO hollow to porous nanospheres with superior rate performance for lithium ion batteries. <i>Chemical Science</i> , <b>2016</b> , 7, 793-798	9.4	133
314	A nanoparticulate liquid binding phase based DGT device for aquatic arsenic measurement. <i>Talanta</i> , <b>2016</b> , 160, 225-232	6.2	15
313	Oxoacetohydrazide-functionalized cellulose with enhanced adsorption performance. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	4

312	Strongly Coupled CoCr <sub>2</sub> O <sub>4</sub> /Carbon Nanosheets as High Performance Electrocatalysts for Oxygen Evolution Reaction. <i>Small</i> , <b>2016</b> , 12, 2866-71	11	76
311	Enrichment of SNPs in Functional Categories Reveals Genes Affecting Complex Traits. <i>Human Mutation</i> , <b>2016</b> , 37, 820-6	4.7	1
310	Co <sub>3</sub> O <sub>4</sub> Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visible-Light Photocatalytic Reduction of CO <sub>2</sub> . <i>Advanced Materials</i> , <b>2016</b> , 28, 6485-90	24	296
309	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> , <b>2016</b> , 52, 5946-9	5.8	190
308	Controlled growth of CuO/Cu <sub>2</sub> O hollow microsphere composites as efficient visible-light-active photocatalysts. <i>Applied Catalysis A: General</i> , <b>2016</b> , 521, 34-41	5.1	32
307	Fe/Fe <sub>2</sub> O <sub>3</sub> nanoparticles anchored on Fe-N-doped carbon nanosheets as bifunctional oxygen electrocatalysts for rechargeable zinc-air batteries. <i>Nano Research</i> , <b>2016</b> , 9, 2123-2137	10	90
306	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> , <b>2016</b> , 106, 74-83	10.4	164
305	Shrimp-shell derived carbon nanodots as precursors to fabricate Fe,N-doped porous graphitic carbon electrocatalysts for efficient oxygen reduction in zinc-air batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 910-918	6.8	20
304	Hierarchical iron containing MnO <sub>2</sub> hollow microspheres: A facile one-step synthesis and effective removal of As(III) via oxidation and adsorption. <i>Chemical Engineering Journal</i> , <b>2016</b> , 301, 139-148	14.7	86
303	3D Fe <sub>3</sub> O <sub>4</sub> @Au@Ag nanoflowers assembled magnetoplasmonic chains for in situ SERS monitoring of plasmon-assisted catalytic reactions. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 8866-8874	13	50
302	Meaningful comparison of photocatalytic properties of {001} and {101} faceted anatase TiO <sub>2</sub> nanocrystals. <i>Science Bulletin</i> , <b>2016</b> , 61, 1003-1012	10.6	18
301	TiO <sub>2</sub> cement for high-performance dye-sensitized solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 83802-83807	3.7	2
300	Co/Co <sub>9</sub> S <sub>8</sub> @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> , <b>2016</b> , 30, 93-102	17.1	216
299	Metal-organic frameworks as selectivity regulators for hydrogenation reactions. <i>Nature</i> , <b>2016</b> , 539, 76-80	90.4	925
298	Ultrafine nickel-cobalt alloy nanoparticles incorporated into three-dimensional porous graphitic carbon as an electrode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17080-17086	13	37
297	Synthesis of multi-shelled MnO <sub>2</sub> hollow microspheres via an anion-adsorption process of hydrothermal intensification. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 1065-1070	6.8	53
296	One pot microwave-assisted synthesis of Ag decorated yolk@shell structured TiO <sub>2</sub> microspheres. <i>RSC Advances</i> , <b>2015</b> , 5, 11349-11357	3.7	4
295	An in situ vapour phase hydrothermal surface doping approach for fabrication of high performance Co <sub>3</sub> O <sub>4</sub> electrocatalysts with an exceptionally high S-doped active surface. <i>Chemical Communications</i> , <b>2015</b> , 51, 5695-7	5.8	41

294	Modified natural diatomite and its enhanced immobilization of lead, copper and cadmium in simulated contaminated soils. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 289, 210-218	12.8	65
293	Ultrathin platinum nanowires grown on single-layered nickel hydroxide with high hydrogen evolution activity. <i>Nature Communications</i> , <b>2015</b> , 6, 6430	17.4	719
292	Nitrogen-Doped Carbon Nanodots@Nanospheres as An Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , <b>2015</b> , 165, 7-13	6.7	32
291	Micro/nanostructured porous Fe-Ni binary oxide and its enhanced arsenic adsorption performances. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 458, 94-102	9.3	39
290	Rutile {111} Faceted TiO <sub>2</sub> Film with High Ability for Selective Adsorption of Aldehyde. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 17680-17686	3.8	6
289	Visible-light-driven inactivation of Escherichia coli K-12 over thermal treated natural pyrrhotite. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 176-177, 749-756	21.8	42
288	Photoelectrochemical manifestation of intrinsic photoelectron transport properties of vertically aligned {001} faceted single crystal TiO <sub>2</sub> nanosheet films. <i>RSC Advances</i> , <b>2015</b> , 5, 55438-55444	3.7	13
287	Hyper-Branched Cu@Cu <sub>2</sub> O Coaxial Nanowires Mesh Electrode for Ultra-Sensitive Glucose Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 16802-12	9.5	86
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282	A fluorescent quenching performance enhancing principle for carbon nanodot-sensitized aqueous solar cells. <i>Nano Energy</i> , <b>2015</b> , 13, 124-130	17.1	29
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280	Carbon for the oxygen reduction reaction: a defect mechanism. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11736-11739	13	184
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198	Theoretical understanding and prediction of lithiated sodium hexatitanates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1108-12	9.5	9
197	ZnO-doped LiFePO <sub>4</sub> cathode material for lithium-ion battery fabricated by hydrothermal method. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 141, 835-841	4.4	18
196	A recyclable mineral catalyst for visible-light-driven photocatalytic inactivation of bacteria: natural magnetic sphalerite. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11166-73	10.3	93
195	A highly crystalline Nb <sub>3</sub> O <sub>7</sub> F nanostructured photoelectrode: fabrication and photosensitisation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6563	13	28
194	Surface hydrogen bonding can enhance photocatalytic H <sub>2</sub> evolution efficiency. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14089	13	89
193	Unidirectional suppression of hydrogen oxidation on oxidized platinum clusters. <i>Nature Communications</i> , <b>2013</b> , 4, 2500	17.4	162
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191	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 &amp; Interfaces</i> , <b>2013</b> , 5, 6959-67	9.5	125
190	Comparative study of visible-light-driven photocatalytic inactivation of two different wastewater bacteria by natural sphalerite. <i>Chemical Engineering Journal</i> , <b>2013</b> , 234, 43-48	14.7	28
189	One-step fabrication of high performance micro/nanostructured Fe <sub>3</sub> S <sub>4</sub> magnetic adsorbent with easy recovery and regeneration properties. <i>CrystEngComm</i> , <b>2013</b> , 15, 2956	3.3	34
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182	Highly efficient overlayer derived from peroxotitanium for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1374-1379	13	17
181	Rutile TiO <sub>2</sub> films with 100% exposed pyramid-shaped (111) surface: photoelectron transport properties under UV and visible light irradiation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2646	13	35
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179	Titanium dioxide-based DGT for measuring dissolved As(V), V(V), Sb(V), Mo(VI) and W(VI) in water. <i>Talanta</i> , <b>2013</b> , 105, 80-6	6.2	70
178	Comparative studies of photocatalytic and photoelectrocatalytic inactivation of E. coli in presence of halides. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 140-141, 225-232	21.8	31
177	A reagent-free tubular biofilm reactor for on-line determination of biochemical oxygen demand. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 45, 213-8	11.8	15
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175	Photocatalytic properties of graphdiyne and graphene modified TiO <sub>2</sub> from theory to experiment. <i>ACS Nano</i> , <b>2013</b> , 7, 1504-12	16.7	373
174	One dimensional CuInS <sub>2</sub> /ZnS heterostructured nanomaterials as low-cost and high-performance counter electrodes of dye-sensitized solar cells. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 835	35.4	159
173	Vapor-phase hydrothermal growth of novel segmentally configured nanotubular crystal structure. <i>Small</i> , <b>2013</b> , 9, 3043-50	11	8
172	Rational screening low-cost counter electrodes for dye-sensitized solar cells. <i>Nature Communications</i> , <b>2013</b> , 4, 1583	17.4	340
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165	Edges of FeO/Pt(111) Interface: A First-Principle Theoretical Study. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 1672-1676	3.8	8
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162	Engineering the band gap of bare titanium dioxide materials for visible-light activity: a theoretical prediction. <i>RSC Advances</i> , <b>2013</b> , 3, 8777	3.7	29
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