Shi Zhang Qiao

List of Publications by Year in Descending Order

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	Stabilizing Cu Ions by Solid Solutions to Promote CO Electroreduction to Methane.. *Journal of the American Chemical Society*, **2022**,	16.4	31
529	NiMo/NiCo2O4 as synergy catalyst supported on nickel foam for efficient overall water splitting. *Molecular Catalysis*, **2022**, 518, 112086	3.3	2
528	Customizing the microenvironment of CO 2 electrocatalysis via three-phase interface engineering. *SmartMat*, **2022**, 3, 111-129	22.8	2
527	Mild synthesis for defect-switchable photocatalysts for hydrogen evolution. *Chem Catalysis*, **2022**, 2, 434-436		1
526	Polyiodide Confinement by Starch Enables Shuttle-Free Zn-Iodine Batteries.. *Advanced Materials*, **2022**, e2201716	24	7
525	Metal-metal interactions in correlated single-atom catalysts.. *Science Advances*, **2022**, 8, eabo0762	14.3	18
524	Electrocatalytic green ammonia production beyond ambient aqueous nitrogen reduction. *Chemical Engineering Science*, **2022**, 117735	4.4	6
523	Synchrotron X-ray Spectroscopic Investigations of In-Situ Formed Alloy Anodes for Magnesium Batteries.. *Advanced Materials*, **2021**, e2108688	24	2
522	Main-group elements boost electrochemical nitrogen fixation. *CheM*, **2021**,	16.2	28
521	Local Environment Determined Reactant Adsorption Configuration for Enhanced Electrocatalytic Acetone Hydrogenation to Propane. *Angewandte Chemie - International Edition*, **2021**,	16.4	4
520	Advancing Photoelectrochemical Energy Conversion through Atomic Design of Catalysts. *Advanced Science*, **2021**, e2104363	13.6	8
519	Catalytic Oxidation of KS via Atomic Co and Pyridinic N Synergy in Potassium-Sulfur Batteries. *Journal of the American Chemical Society*, **2021**, 143, 16902-16907	16.4	11
518	Molecular Cleavage of Metal-Organic Frameworks and Application to Energy Storage and Conversion. *Advanced Materials*, **2021**, e2104341	24	17
517	Electrocatalytic Refinery for Sustainable Production of Fuels and Chemicals. *Angewandte Chemie*, **2021**, 133, 19724-19742	3.6	5
516	Electrocatalytic Refinery for Sustainable Production of Fuels and Chemicals. *Angewandte Chemie - International Edition*, **2021**, 60, 19572-19590	16.4	93
515	Hierarchical porous S-doped Fe/N/C electrocatalyst for high-power-density zinc–air battery. *Materials Today Energy*, **2021**, 19, 100624	7	13
514	Short-Range Ordered Iridium Single Atoms Integrated into Cobalt Oxide Spinel Structure for Highly Efficient Electrocatalytic Water Oxidation. *Journal of the American Chemical Society*, **2021**, 143, 5201-5211	16.4	98

513	Molecular Scalpel to Chemically Cleave Metal-Organic Frameworks for Induced Phase Transition. *Journal of the American Chemical Society*, **2021**, 143, 6681-6690	16.4	26
512	Metal organic framework (MOF) in aqueous energy devices. *Materials Today*, **2021**, 48, 270-270	21.8	16
511	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 14131-14137	16.4	56
510	Tailoring Acidic Oxygen Reduction Selectivity on Single-Atom Catalysts via Modification of First and Second Coordination Spheres. *Journal of the American Chemical Society*, **2021**, 143, 7819-7827	16.4	126
509	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. *Angewandte Chemie*, **2021**, 133, 14250-14256	3.6	15
508	Metastable Two-Dimensional Materials for Electrocatalytic Energy Conversions. *Accounts of Materials Research*, **2021**, 2, 559-573	7.5	25
507	The Controllable Reconstruction of Bi-MOFs for Electrochemical CO2 Reduction through Electrolyte and Potential Mediation. *Angewandte Chemie*, **2021**, 133, 18326-18332	3.6	1
506	CO2 reduction by single copper atom supported on g-C3N4 with asymmetrical active sites. *Applied Surface Science*, **2021**, 540, 148293	6.7	15
505	Destabilizing Alkaline Water with 3d-Metal (Oxy)(Hydr)Oxides for Improved Hydrogen Evolution. *Chemistry - A European Journal*, **2021**, 27, 553-564	4.8	7
504	Highly Selective Two-Electron Electrocatalytic CO2 Reduction on Single-Atom Cu Catalysts. *Small Structures*, **2021**, 2, 2000058	8.7	44
503	Anomalous C-C Coupling on Under-Coordinated Cu (111): A Case Study of Cu Nanopyramids for CO Reduction Reaction by Molecular Modelling. *ChemSusChem*, **2021**, 14, 671-678	8.3	4
502	Opportunities of Aqueous Manganese-Based Batteries with Deposition and Stripping Chemistry. *Advanced Energy Materials*, **2021**, 11, 2002904	21.8	37
501	ReS2 Nanosheets with In Situ Formed Sulfur Vacancies for Efficient and Highly Selective Photocatalytic CO2 Reduction. *Small Science*, **2021**, 1, 2000052		30
500	Suppressing Al dendrite growth towards a long-life Al-metal battery. *Energy Storage Materials*, **2021**, 34, 194-202	19.4	22
499	Role of oxygen-bound reaction intermediates in selective electrochemical CO2 reduction. *Energy and Environmental Science*, **2021**, 14, 3912-3930	35.4	27
498	Spatial-confinement induced electroreduction of CO and CO to diols on densely-arrayed Cu nanopyramids. *Chemical Science*, **2021**, 12, 8079-8087	9.4	7
497	Mechanism for Zincophilic Sites on Zinc-Metal Anode Hosts in Aqueous Batteries. *Advanced Energy Materials*, **2021**, 11, 2003419	21.8	79
496	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. *Angewandte Chemie*, **2021**, 133, 7442-7451	3.6	43

495	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. *Angewandte Chemie - International Edition*, **2021**, 60, 7366-7375	16.4	161
494	Stable and Highly Efficient Hydrogen Evolution from Seawater Enabled by an Unsaturated Nickel Surface Nitride. *Advanced Materials*, **2021**, 33, e2007508	24	81
493	The Controllable Reconstruction of Bi-MOFs for Electrochemical CO Reduction through Electrolyte and Potential Mediation. *Angewandte Chemie - International Edition*, **2021**, 60, 18178-18184	16.4	35
492	Significantly Raised Visible-Light Photocatalytic H Evolution on a 2D/2D ReS /In ZnS van der Waals Heterostructure. *Small*, **2021**, 17, e2100296	11	9
491	Selective Catalysis Remedies Polysulfide Shuttling in Lithium-Sulfur Batteries. *Advanced Materials*, **2021**, 33, e2101006	24	55
490	Significantly Raised Visible-Light Photocatalytic H2 Evolution on a 2D/2D ReS2/In2ZnS4 van der Waals Heterostructure (Small 32/2021). *Small*, **2021**, 17, 2170168	11	1
489	Dual-Function Electrolyte Additive for Highly Reversible Zn Anode. *Advanced Energy Materials*, **2021**, 11, 2102010	21.8	47
488	Nickel ferrocyanide as a high-performance urea oxidation electrocatalyst. *Nature Energy*, **2021**, 6, 904-912	62.3	57
487	Studying the Conversion Mechanism to Broaden Cathode Options in Aqueous Zinc-Ion Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 25114-25121	16.4	17
486	Sulfur-Based Aqueous Batteries: Electrochemistry and Strategies. *Journal of the American Chemical Society*, **2021**, 143, 15475-15489	16.4	23
485	Reversible electrochemical oxidation of sulfur in ionic liquid for high-voltage Al-S batteries. *Nature Communications*, **2021**, 12, 5714	17.4	13
484	Key to C production: selective C-C coupling for electrochemical CO reduction on copper alloy surfaces. *Chemical Communications*, **2021**, 57, 9526-9529	5.8	1
483	Directing the selectivity of CO2 electroreduction to target C2 products via non-metal doping on Cu surfaces. *Journal of Materials Chemistry A*, **2021**, 9, 6345-6351	13	12
482	Two-dimensional building blocks for photocatalytic ammonia production. *Journal of Materials Chemistry A*, **2021**, 9, 18733-18745	13	6
481	Single-Atom Photocatalysts for Emerging Reactions. *ACS Central Science*, **2021**, 7, 39-54	16.8	34
480	Recent Progress of 3d Transition Metal Single-Atom Catalysts for Electrochemical CO2 Reduction. *Advanced Materials Interfaces*, **2021**, 8, 2001904	4.6	22
479	A MoN electrocatalyst for efficient NaS electrodeposition in room-temperature sodium-sulfur batteries. *Nature Communications*, **2021**, 12, 7195	17.4	9
478	Electrochemical Reduction of CO2 to Ethane through Stabilization of an Ethoxy Intermediate. *Angewandte Chemie*, **2020**, 132, 19817-19821	3.6	14

477	Atomic Engineering Catalyzed MnO Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density. *Advanced Materials*, **2020**, 32, e2001894	24	123
476	Creating compressive stress at the NiOOH/NiO interface for water oxidation. *Journal of Materials Chemistry A*, **2020**, 8, 10747-10754	13	20
475	Coordination Tunes Selectivity: Two-Electron Oxygen Reduction on High-Loading Molybdenum Single-Atom Catalysts. *Angewandte Chemie - International Edition*, **2020**, 59, 9171-9176	16.4	206
474	Photocatalysts for Hydrogen Evolution Coupled with Production of Value-Added Chemicals. *Small Methods*, **2020**, 4, 2000063	12.8	62
473	Unveiling the Advances of 2D Materials for Li/Na-S Batteries Experimentally and Theoretically. *Matter*, **2020**, 2, 323-344	12.7	78
472	Coordination Tunes Selectivity: Two-Electron Oxygen Reduction on High-Loading Molybdenum Single-Atom Catalysts. *Angewandte Chemie*, **2020**, 132, 9256-9261	3.6	59
471	Hybrid Aqueous Batteries: Atomic Engineering Catalyzed MnO2 Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density (Adv. Mater. 25/2020). *Advanced Materials*, **2020**, 32, 2070191	24	2
470	Phosphorus Vacancies that Boost Electrocatalytic Hydrogen Evolution by Two Orders of Magnitude. *Angewandte Chemie*, **2020**, 132, 8258-8263	3.6	13
469	Electron-State Confinement of Polysulfides for Highly Stable Sodium-Sulfur Batteries. *Advanced Materials*, **2020**, 32, e1907557	24	87
468	Selectivity roadmap for electrochemical CO2 reduction on copper-based alloy catalysts. *Nano Energy*, **2020**, 71, 104601	17.1	65
467	Strategies for design of electrocatalysts for hydrogen evolution under alkaline conditions. *Materials Today*, **2020**, 36, 125-138	21.8	152
466	The Crucial Role of Charge Accumulation and Spin Polarization in Activating Carbon-Based Catalysts for Electrocatalytic Nitrogen Reduction. *Angewandte Chemie*, **2020**, 132, 4555-4561	3.6	4
465	The Crucial Role of Charge Accumulation and Spin Polarization in Activating Carbon-Based Catalysts for Electrocatalytic Nitrogen Reduction. *Angewandte Chemie - International Edition*, **2020**, 59, 4525-4531	16.4	88
464	Rational Design of Spinel Cobalt Vanadate Oxide Co VO for Superior Electrocatalysis. *Advanced Materials*, **2020**, 32, e1907168	24	72
463	Atomic-Level Reactive Sites for Semiconductor-Based Photocatalytic CO2 Reduction. *Advanced Energy Materials*, **2020**, 10, 1903879	21.8	162
462	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. *Energy and Environmental Science*, **2020**, 13, 1096-1131	35.4	135
461	Phosphorus Vacancies that Boost Electrocatalytic Hydrogen Evolution by Two Orders of Magnitude. *Angewandte Chemie - International Edition*, **2020**, 59, 8181-8186	16.4	99
460	Hydrogenated dual-shell sodium titanate cubes for sodium-ion batteries with optimized ion transportation. *Journal of Materials Chemistry A*, **2020**, 8, 15829-15833	13	7

459	Electrochemical Reduction of CO to Ethane through Stabilization of an Ethoxy Intermediate. *Angewandte Chemie - International Edition*, **2020**, 59, 19649-19653	16.4	61
458	Roadmap for advanced aqueous batteries: From design of materials to applications. *Science Advances*, **2020**, 6, eaba4098	14.3	455
457	Isolated Boron Sites for Electroreduction of Dinitrogen to Ammonia. *ACS Catalysis*, **2020**, 10, 1847-1854	13.1	82
456	Revealing Principles for Design of Lean-Electrolyte Lithium Metal Anode via In Situ Spectroscopy. *Journal of the American Chemical Society*, **2020**, 142, 2012-2022	16.4	84
455	Toward High-Voltage Aqueous Batteries: Super- or Low-Concentrated Electrolyte?. *Joule*, **2020**, 4, 1846-1851	39.8	102
454	Atomic-Level Insights into the Edge Active ReS2 Ultrathin Nanosheets for High-Efficiency Light-to-Hydrogen Conversion **2020**, 2, 1484-1494		35
453	Recent Progress in Engineering the Atomic and Electronic Structure of Electrocatalysts via Cation Exchange Reactions. *Advanced Materials*, **2020**, 32, e2001866	24	45
452	In Situ Fragmented Bismuth Nanoparticles for Electrocatalytic Nitrogen Reduction. *Advanced Energy Materials*, **2020**, 10, 2001289	21.8	81
451	Topotactically Transformed Polygonal Mesopores on Ternary Layered Double Hydroxides Exposing Under-Coordinated Metal Centers for Accelerated Water Dissociation. *Advanced Materials*, **2020**, 32, e2006784	24	67
450	Molten Salt-Directed Catalytic Synthesis of 2D Layered Transition-Metal Nitrides for Efficient Hydrogen Evolution. *CheM*, **2020**, 6, 2382-2394	16.2	67
449	Revealing the Magnesium-Storage Mechanism in Mesoporous Bismuth via Spectroscopy and Ab-Initio Simulations. *Angewandte Chemie - International Edition*, **2020**, 59, 21728-21735	16.4	10
448	Atomically dispersed Ni in cadmium-zinc sulfide quantum dots for high-performance visible-light photocatalytic hydrogen production. *Science Advances*, **2020**, 6, eaaz8447	14.3	47
447	Graphene-encapsulated nickel-copper bimetallic nanoparticle catalysts for electrochemical reduction of CO to CO. *Chemical Communications*, **2020**, 56, 11275-11278	5.8	13
446	Innentitelbild: Electrochemical Reduction of CO2 to Ethane through Stabilization of an Ethoxy Intermediate (Angew. Chem. 44/2020). *Angewandte Chemie*, **2020**, 132, 19530-19530	3.6	
445	Phase segregation reversibility in mixed-metal hydroxide water oxidation catalysts. *Nature Catalysis*, **2020**, 3, 743-753	36.5	71
444	Revealing the Magnesium-Storage Mechanism in Mesoporous Bismuth via Spectroscopy and Ab-Initio Simulations. *Angewandte Chemie*, **2020**, 132, 21912-21919	3.6	3
443	Test factors affecting the performance of zinc–air battery. *Journal of Energy Chemistry*, **2020**, 44, 1-7	12	18
442	Tailoring Selectivity of Electrochemical Hydrogen Peroxide Generation by Tunable Pyrrolic-Nitrogen-Carbon. *Advanced Energy Materials*, **2020**, 10, 2000789	21.8	108

441	Targeted Synergy between Adjacent Co Atoms on Graphene Oxide as an Efficient New Electrocatalyst for Li□O2 Batteries. *Advanced Functional Materials*, **2019**, 29, 1904206	15.6	49
440	Efficient Surface Modulation of Single-Crystalline Na2Ti3O7 Nanotube Arrays with Ti3+ Self-Doping toward Superior Sodium Storage **2019**, 1, 389-398		15
439	Selectivity Control for Electrochemical CO2 Reduction by Charge Redistribution on the Surface of Copper Alloys. *ACS Catalysis*, **2019**, 9, 9411-9417	13.1	106
438	Revealing the Origin of Improved Reversible Capacity of Dual-Shell Bismuth Boxes Anode for Potassium-Ion Batteries. *Matter*, **2019**, 1, 1681-1693	12.7	62
437	A computational study on Pt and Ru dimers supported on graphene for the hydrogen evolution reaction: new insight into the alkaline mechanism. *Journal of Materials Chemistry A*, **2019**, 7, 3648-3654	13	86
436	A 2D metal-organic framework/Ni(OH) heterostructure for an enhanced oxygen evolution reaction. *Nanoscale*, **2019**, 11, 3599-3605	7.7	86
435	Impact of Interfacial Electron Transfer on Electrochemical CO Reduction on Graphitic Carbon Nitride/Doped Graphene. *Small*, **2019**, 15, e1804224	11	56
434	Negative Charging of Transition-Metal Phosphides via Strong Electronic Coupling for Destabilization of Alkaline Water. *Angewandte Chemie*, **2019**, 131, 11922-11926	3.6	12
433	Contemporaneous oxidation state manipulation to accelerate intermediate desorption for overall water electrolysis. *Chemical Communications*, **2019**, 55, 8313-8316	5.8	7
432	Non-metal Single-Iodine-Atom Electrocatalysts for the Hydrogen Evolution Reaction. *Angewandte Chemie*, **2019**, 131, 12380-12385	3.6	19
431	Non-metal Single-Iodine-Atom Electrocatalysts for the Hydrogen Evolution Reaction. *Angewandte Chemie - International Edition*, **2019**, 58, 12252-12257	16.4	127
430	Building Up a Picture of the Electrocatalytic Nitrogen Reduction Activity of Transition Metal Single-Atom Catalysts. *Journal of the American Chemical Society*, **2019**, 141, 9664-9672	16.4	390
429	Nitrogen Vacancies on 2D Layered W N : A Stable and Efficient Active Site for Nitrogen Reduction Reaction. *Advanced Materials*, **2019**, 31, e1902709	24	258
428	Negative Charging of Transition-Metal Phosphides via Strong Electronic Coupling for Destabilization of Alkaline Water. *Angewandte Chemie - International Edition*, **2019**, 58, 11796-11800	16.4	101
427	Atomically Dispersed Single Co Sites in Zeolitic Imidazole Frameworks Promoting High-Efficiency Visible-Light-Driven Hydrogen Production. *Chemistry - A European Journal*, **2019**, 25, 9670-9677	4.8	7
426	Breaking the volcano-plot limits for Pt-based electrocatalysts by selective tuning adsorption of multiple intermediates. *Journal of Materials Chemistry A*, **2019**, 7, 13635-13640	13	19
425	How to explore ambient electrocatalytic nitrogen reduction reliably and insightfully. *Chemical Society Reviews*, **2019**, 48, 3166-3180	58.5	377
424	Advantageous crystalline□morphous phase boundary for enhanced electrochemical water oxidation. *Energy and Environmental Science*, **2019**, 12, 2443-2454	35.4	172

423	Graphitic Carbon Nitride (g-C N)-Derived N-Rich Graphene with Tuneable Interlayer Distance as a High-Rate Anode for Sodium-Ion Batteries. *Advanced Materials*, **2019**, 31, e1901261	24	232
422	Understanding the Roadmap for Electrochemical Reduction of CO to Multi-Carbon Oxygenates and Hydrocarbons on Copper-Based Catalysts. *Journal of the American Chemical Society*, **2019**, 141, 7646-7659	16.4	371
421	Electrocatalysis: Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction (Adv. Mater. 16/2019). *Advanced Materials*, **2019**, 31, 1970113	24	2
420	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
419	Engineering 2D Metal-Organic Framework/MoS Interface for Enhanced Alkaline Hydrogen Evolution. *Small*, **2019**, 15, e1805511	11	105
418	3D Hierarchical Porous Graphene-Based Energy Materials: Synthesis, Functionalization, and Application in Energy Storage and Conversion. *Electrochemical Energy Reviews*, **2019**, 2, 332-371	29.3	59
417	Interfacial nickel nitride/sulfide as a bifunctional electrode for highly efficient overall water/seawater electrolysis. *Journal of Materials Chemistry A*, **2019**, 7, 8117-8121	13	86
416	Co (II) Boron Imidazolate Framework with Rigid Auxiliary Linkers for Stable Electrocatalytic Oxygen Evolution Reaction. *Advanced Science*, **2019**, 6, 1801920	13.6	33
415	Ruthenium-Based Single-Atom Alloy with High Electrocatalytic Activity for Hydrogen Evolution. *Advanced Energy Materials*, **2019**, 9, 1803913	21.8	152
414	An Electrolytic Zn–MnO2 Battery for High-Voltage and Scalable Energy Storage. *Angewandte Chemie*, **2019**, 131, 7905-7910	3.6	49
413	An Electrolytic Zn-MnO Battery for High-Voltage and Scalable Energy Storage. *Angewandte Chemie - International Edition*, **2019**, 58, 7823-7828	16.4	464
412	Approaches for measuring the surface areas of metal oxide electrocatalysts for determining their intrinsic electrocatalytic activity. *Chemical Society Reviews*, **2019**, 48, 2518-2534	58.5	227
411	A two-dimensional metal-organic framework accelerating visible-light-driven H production. *Nanoscale*, **2019**, 11, 8304-8309	7.7	19
410	Multi-shell hollow structured Sb2S3 for sodium-ion batteries with enhanced energy density. *Nano Energy*, **2019**, 60, 591-599	17.1	100
409	Syngas production from electrocatalytic CO2 reduction with high energetic efficiency and current density. *Journal of Materials Chemistry A*, **2019**, 7, 7675-7682	13	47
408	Heteroatom-Doped Transition Metal Electrocatalysts for Hydrogen Evolution Reaction. *ACS Energy Letters*, **2019**, 4, 805-810	20.1	188
407	Surface P atom grafting of g-C3N4 for improved local spatial charge separation and enhanced photocatalytic H2 production. *Journal of Materials Chemistry A*, **2019**, 7, 7628-7635	13	34
406	Transition-Metal-Doped RuIr Bifunctional Nanocrystals for Overall Water Splitting in Acidic Environments. *Advanced Materials*, **2019**, 31, e1900510	24	261

405	Nahinfrarotaktive Bleichalkogenid-Quantenpunkte: Herstellung, postsynthetischer Ligandenaustausch und Anwendungen in Solarzellen. *Angewandte Chemie*, **2019**, 131, 5256-5279	3.6	1
404	Near-Infrared Active Lead Chalcogenide Quantum Dots: Preparation, Post-Synthesis Ligand Exchange, and Applications in Solar Cells. *Angewandte Chemie - International Edition*, **2019**, 58, 5202-5224	16.4	47
403	Realizing large-scale and controllable fabrication of active cobalt oxide nanorod catalysts for zinc-air battery. *Chemical Engineering Science*, **2019**, 194, 127-133	4.4	13
402	The Application of Hollow Structured Anodes for Sodium-Ion Batteries: From Simple to Complex Systems. *Advanced Materials*, **2019**, 31, e1800492	24	96
401	Electrochemical Nitrogen Reduction: Identification and Elimination of Contamination in Electrolyte. *ACS Energy Letters*, **2019**, 4, 2111-2116	20.1	100
400	Sodium-Ion Batteries: 1T?-ReS2 Confined in 2D-Honeycombed Carbon Nanosheets as New Anode Materials for High-Performance Sodium-Ion Batteries (Adv. Energy Mater. 30/2019). *Advanced Energy Materials*, **2019**, 9, 1970117	21.8	3
399	True or False in Electrochemical Nitrogen Reduction. *Joule*, **2019**, 3, 1573-1575	27.8	25
398	Characterization of semiconductor photocatalysts. *Chemical Society Reviews*, **2019**, 48, 5184-5206	58.5	126
397	Intermediate Modulation on Noble Metal Hybridized to 2D Metal-Organic Framework for Accelerated Water Electrocatalysis. *CheM*, **2019**, 5, 2429-2441	16.2	95
396	Synergistic catalysis between atomically dispersed Fe and a pyrrolic-N-C framework for CO2 electroreduction. *Nanoscale Horizons*, **2019**, 4, 1411-1415	10.8	14
395	1T?-ReS2 Confined in 2D-Honeycombed Carbon Nanosheets as New Anode Materials for High-Performance Sodium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1901146	21.8	32
394	Anomalous hydrogen evolution behavior in high-pH environment induced by locally generated hydronium ions. *Nature Communications*, **2019**, 10, 4876	17.4	118
393	Regulating Electrocatalysts via Surface and Interface Engineering for Acidic Water Electrooxidation. *ACS Energy Letters*, **2019**, 4, 2719-2730	20.1	124
392	Laser-Induced Pyridinic-Nitrogen-Rich Defective Carbon Nanotubes for Efficient Oxygen Electrocatalysis. *ChemCatChem*, **2019**, 11, 6131-6138	5.2	5
391	The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. *Chemistry - A European Journal*, **2019**, 26, 3898	4.8	5
390	Two-Dimensional Mosaic Bismuth Nanosheets for Highly Selective Ambient Electrocatalytic Nitrogen Reduction. *ACS Catalysis*, **2019**, 9, 2902-2908	13.1	329
389	2D Atomically Thin Electrocatalysts: From Graphene to Metallene. *Matter*, **2019**, 1, 1454-1455	12.7	5
388	Surface strategies for catalytic CO reduction: from two-dimensional materials to nanoclusters to single atoms. *Chemical Society Reviews*, **2019**, 48, 5310-5349	58.5	365

387	Charge-Redistribution-Enhanced Nanocrystalline Ru@IrOx Electrocatalysts for Oxygen Evolution in Acidic Media. *CheM*, **2019**, 5, 445-459	16.2	205
386	Long-Life Room-Temperature Sodium–Sulfur Batteries by Virtue of Transition-Metal-Nanocluster–Sulfur Interactions. *Angewandte Chemie*, **2019**, 131, 1498-1502	3.6	50
385	Long-Life Room-Temperature Sodium-Sulfur Batteries by Virtue of Transition-Metal-Nanocluster-Sulfur Interactions. *Angewandte Chemie - International Edition*, **2019**, 58, 1484-1488	16.4	113
384	Tungsten Nitride Nanodots Embedded Phosphorous Modified Carbon Fabric as Flexible and Robust Electrode for Asymmetric Pseudocapacitor. *Small*, **2019**, 15, e1804104	11	54
383	Electronic and Structural Engineering of Carbon-Based Metal-Free Electrocatalysts for Water Splitting. *Advanced Materials*, **2019**, 31, e1803625	24	163
382	2D Metal Organic Framework Nanosheet: A Universal Platform Promoting Highly Efficient Visible-Light-Induced Hydrogen Production. *Advanced Energy Materials*, **2019**, 9, 1803402	21.8	144
381	3D Hollow □MnO Framework as an Efficient Electrocatalyst for Lithium-Oxygen Batteries. *Small*, **2019**, 15, e1804958	11	64
380	A Regularly Channeled Lamellar Membrane for Unparalleled Water and Organics Permeation. *Angewandte Chemie - International Edition*, **2018**, 57, 6814-6818	16.4	121
379	A Regularly Channeled Lamellar Membrane for Unparalleled Water and Organics Permeation. *Angewandte Chemie*, **2018**, 130, 6930-6934	3.6	17
378	Strongly Coupled CoO Nanoclusters/CoFe LDHs Hybrid as a Synergistic Catalyst for Electrochemical Water Oxidation. *Small*, **2018**, 14, e1800195	11	63
377	Titelbild: A Regularly Channeled Lamellar Membrane for Unparalleled Water and Organics Permeation (Angew. Chem. 23/2018). *Angewandte Chemie*, **2018**, 130, 6819-6819	3.6	2
376	An Earth-Abundant Catalyst-Based Seawater Photoelectrolysis System with 17.9% Solar-to-Hydrogen Efficiency. *Advanced Materials*, **2018**, 30, e1707261	24	110
375	Electrocatalytic Activity of a 2D Phosphorene-Based Heteroelectrocatalyst for Photoelectrochemical Cells. *Angewandte Chemie - International Edition*, **2018**, 57, 2644-2647	16.4	39
374	Electrocatalytic Activity of a 2D Phosphorene-Based Heteroelectrocatalyst for Photoelectrochemical Cells. *Angewandte Chemie*, **2018**, 130, 2674-2677	3.6	8
373	Die Wasserstoffentwicklungsreaktion in alkalischer L□sung: Von der Theorie und Einkristallmodellen zu praktischen Elektrokatalysatoren. *Angewandte Chemie*, **2018**, 130, 7690-7702	3.6	64
372	Porous MoS2/Carbon Spheres Anchored on 3D Interconnected Multiwall Carbon Nanotube Networks for□Ultrafast Na Storage. *Advanced Energy Materials*, **2018**, 8, 1702909	21.8	153
371	Carbon, nitrogen and phosphorus containing metal-free photocatalysts for hydrogen production: progress and challenges. *Journal of Materials Chemistry A*, **2018**, 6, 1305-1322	13	125
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