

Shuangyin Wang

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.

301 papers	29,654 citations	94 h-index	166 g-index
319 ext. papers	36,219 ext. citations	11.4 avg, IF	7.84 L-index

#	Paper	IF	Citations
301	Advanced Zn-I Battery with Excellent Cycling Stability and Good Rate Performance by a Multifunctional Iodine Host.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
300	Combined anodic and cathodic hydrogen production from aldehyde oxidation and hydrogen evolution reaction. <i>Nature Catalysis</i> , 2022 , 5, 66-73	36.5	29
299	Integrated Catalytic Sites for Highly Efficient Electrochemical Oxidation of the Aldehyde and Hydroxyl Groups in 5-Hydroxymethylfurfural. <i>ACS Catalysis</i> , 2022 , 12, 4242-4251	13.1	8
298	Electrochemically formed PtFeNi alloy nanoparticles on defective NiFe LDHs with charge transfer for efficient water splitting. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1101-1110	11.3	2
297	Cobalt-regulation-induced dual active sites in Ni ₂ P for hydrazine electrooxidation. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1131-1138	11.3	2
296	Activated Ni-OH Bond in Catalyst Facilitates Nucleophile Oxidation Reaction.. <i>Advanced Materials</i> , 2022 , e2105320	24	3
295	Phosphotungstic acid modification boosting the cathode methanol tolerance for high-temperature direct methanol fuel cells. <i>Journal of Power Sources</i> , 2022 , 541, 231643	8.9	0
294	Transform electrocatalytic biomass upgrading and hydrogen production from electricity input to electricity output.. <i>Angewandte Chemie - International Edition</i> , 2021 , e202115636	16.4	7
293	Room-temperature chemical looping hydrogen production mediated by electrochemically induced heterogeneous Cu(I)/Cu(II) redox. <i>Chem Catalysis</i> , 2021 , 1, 1493-1504		6
292	High-Entropy Alloys for Electrocatalysis: Design, Characterization, and Applications. <i>Small</i> , 2021 , e2104339		9
291	Recent Advances on Electrolysis for Simultaneous Generation of Valuable Chemicals at both Anode and Cathode. <i>Advanced Energy Materials</i> , 2021 , 11, 2102292	21.8	20
290	Scanning probe microscopy for electrocatalysis. <i>Matter</i> , 2021 , 4, 3483-3514	12.7	1
289	Co-CoF ₂ heterojunctions encapsulated in N, F co-doped porous carbon as bifunctional oxygen electrocatalysts for Zn-air batteries. <i>Chemical Engineering Journal</i> , 2021 , 133541	14.7	3
288	Ion migration and defect effect of electrode materials in multivalent-ion batteries. <i>Progress in Materials Science</i> , 2021 , 125, 100911	42.2	11
287	Emerging Small Science on Nanomaterials for Energy Storage and Catalysis. <i>Small Science</i> , 2021 , 1, 2100101		1
286	Electrocatalytic C-N Coupling for Urea Synthesis. <i>Small Science</i> , 2021 , 1, 2100070		7
285	Tailoring Competitive Adsorption Sites by Oxygen-Vacancy on Cobalt Oxides to Enhance the Electrooxidation of Biomass. <i>Advanced Materials</i> , 2021 , 34, e2107185	24	21

284	Electrochemistry-Assisted Photoelectrochemical Reduction of Nitrogen to Ammonia. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 23041-23049	3.8	3
283	Elucidating the electro-catalytic oxidation of hydrazine over carbon nanotube-based transition metal single atom catalysts. <i>Nano Research</i> , 2021 , 14, 4650	10	3
282	Li Selectivity of Carboxylate Graphene Nanopores Inspired by Electric Field and Nanoconfinement. <i>Small</i> , 2021 , 17, e2006704	11	5
281	An Investigation of Active Sites for electrochemical CO Reduction Reactions: From In Situ Characterization to Rational Design. <i>Advanced Science</i> , 2021 , 8, 2003579	13.6	30
280	Nonnitrogen Coordination Environment Steering Electrochemical CO ₂ -to-CO Conversion over Single-Atom Tin Catalysts in a Wide Potential Window. <i>ACS Catalysis</i> , 2021 , 11, 5212-5221	13.1	17
279	Surface Modification of Carbon-Based Electrodes for Vanadium Redox Flow Batteries. <i>Energy & Fuels</i> , 2021 , 35, 8617-8633	4.1	4
278	Tailoring lattice strain in ultra-fine high-entropy alloys for active and stable methanol oxidation. <i>Science China Materials</i> , 2021 , 64, 2454-2466	7.1	9
277	Defect-Rich High-Entropy Oxide Nanosheets for Efficient 5-Hydroxymethylfurfural Electrooxidation. <i>Angewandte Chemie</i> , 2021 , 133, 20415-20420	3.6	5
276	Recent advances in defect electrocatalysts: Preparation and characterization. <i>Journal of Energy Chemistry</i> , 2021 , 53, 208-225	12	40
275	First demonstration of phosphate enhanced atomically dispersed bimetallic FeCu catalysts as Pt-free cathodes for high temperature phosphoric acid doped polybenzimidazole fuel cells. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119717	21.8	11
274	Regulating carbon work function to boost electrocatalytic activity for the oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 938-944	11.3	1
273	Electroreduction of Carbon Dioxide Driven by the Intrinsic Defects in the Carbon Plane of a Single Fe-N Site. <i>Advanced Materials</i> , 2021 , 33, e2003238	24	92
272	Tuning the Selective Adsorption Site of Biomass on Co O by Ir Single Atoms for Electrosynthesis. <i>Advanced Materials</i> , 2021 , 33, e2007056	24	58
271	Perfecting electrocatalysts via imperfections: towards the large-scale deployment of water electrolysis technology. <i>Energy and Environmental Science</i> , 2021 , 14, 1722-1770	35.4	55
270	Fe ²⁺ -Induced In Situ Intercalation and Cation Exsolution of Co ₈₀ Fe ₂₀ (OH)(OCH ₃) with Rich Vacancies for Boosting Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021 , 31, 2009245	15.6	11
269	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the N-N Bond. <i>Angewandte Chemie</i> , 2021 , 133, 7373-7383	3.6	13
268	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the N-N Bond. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7297-7307	16.4	49
267	Defect-Rich High-Entropy Oxide Nanosheets for Efficient 5-Hydroxymethylfurfural Electrooxidation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20253-20258	16.4	21

266	Coupling Electrocatalytic Nitric Oxide Oxidation over Carbon Cloth with Hydrogen Evolution Reaction for Nitrate Synthesis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24605-24611	16.4	10
265	Identification of the hydrogen utilization pathway for the electrocatalytic hydrogenation of phenol. <i>Science China Chemistry</i> , 2021 , 64, 1586-1595	7.9	2
264	Coupling Electrocatalytic Nitric Oxide Oxidation over Carbon Cloth with Hydrogen Evolution Reaction for Nitrate Synthesis. <i>Angewandte Chemie</i> , 2021 , 133, 24810	3.6	1
263	Coupling Glucose-Assisted Cu(I)/Cu(II) Redox with Electrochemical Hydrogen Production. <i>Advanced Materials</i> , 2021 , 33, e2104791	24	15
262	Ultrathin defective high-entropy layered double hydroxides for electrochemical water oxidation. <i>Journal of Energy Chemistry</i> , 2021 , 60, 121-126	12	20
261	Colloid self-assembly of c-axis oriented hydroxide thin films to boost the electrocatalytic oxidation reaction. <i>Chemical Engineering Journal</i> , 2021 , 420, 130532	14.7	3
260	Platinum Modulates Redox Properties and 5-Hydroxymethylfurfural Adsorption Kinetics of Ni(OH) for Biomass Upgrading. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22908-22914	16.4	20
259	Recent Progress and Prospective of Nickel Selenide-Based Electrocatalysts for Water Splitting. <i>Energy & Fuels</i> , 2021 , 35, 14283-14303	4.1	6
258	Platinum Modulates Redox Properties and 5-Hydroxymethylfurfural Adsorption Kinetics of Ni(OH) ₂ for Biomass Upgrading. <i>Angewandte Chemie</i> , 2021 , 133, 23090	3.6	1
257	An option for green and sustainable future: Electrochemical conversion of ammonia into nitrogen. <i>Journal of Energy Chemistry</i> , 2021 , 60, 384-402	12	10
256	Activity origin and alkalinity effect of electrocatalytic biomass oxidation on nickel nitride. <i>Journal of Energy Chemistry</i> , 2021 , 61, 179-185	12	12
255	Hierarchically nanostructured NiO-Co ₃ O ₄ with rich interface defects for the electro-oxidation of 5-hydroxymethylfurfural. <i>Science China Chemistry</i> , 2020 , 63, 980-986	7.9	31
254	Atomically Dispersed Fe on Nanosheet-linked, Defect-rich, Highly N-Doped 3D Porous Carbon for Efficient Oxygen Reduction. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 453-458	2.2	8
253	Identification of the Dynamic Behavior of Oxygen Vacancy-Rich CoO for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12087-12095	16.4	279
252	Coupling N and CO in HO to synthesize urea under ambient conditions. <i>Nature Chemistry</i> , 2020 , 12, 717-724	17.6	146
251	Identifying the Intrinsic Relationship between the Restructured Oxide Layer and Oxygen Evolution Reaction Performance on the Cobalt Pnictide Catalyst. <i>Small</i> , 2020 , 16, e1906867	11	31
250	Defect Engineering for Fuel-Cell Electrocatalysts. <i>Advanced Materials</i> , 2020 , 32, e1907879	24	170
249	Nanostructured electrocatalysts for electrochemical carboxylation with CO ₂ . <i>Nano Select</i> , 2020 , 1, 135-151	15.1	13

248	Defect engineering of the protection layer for photoelectrochemical devices. <i>EnergyChem</i> , 2020 , 2, 100039	3.9	6
247	Advanced Exfoliation Strategies for Layered Double Hydroxides and Applications in Energy Conversion and Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 1909832	15.6	47
246	Defect repair of tin selenide photocathode via in situ selenization: enhanced photoelectrochemical performance and environmental stability. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5342-5349	13	4
245	In-situ phase transition of WO ₃ boosting electron and hydrogen transfer for enhancing hydrogen evolution on Pt. <i>Nano Energy</i> , 2020 , 71, 104653	17.1	58
244	Bifunctional Catalysts for Reversible Oxygen Evolution Reaction and Oxygen Reduction Reaction. <i>Chemistry - A European Journal</i> , 2020 , 26, 3906	4.8	35
243	Three-Dimensional Self-assembled Hairball-Like VS as High-Capacity Anodes for Sodium-Ion Batteries. <i>Nano-Micro Letters</i> , 2020 , 12, 39	19.5	15
242	Defect Engineering on Electrode Materials for Rechargeable Batteries. <i>Advanced Materials</i> , 2020 , 32, e1905923	24	270
241	In Situ Exfoliation and Pt Deposition of Antimonene for Formic Acid Oxidation via a Predominant Dehydrogenation Pathway. <i>Research</i> , 2020 , 2020, 5487237	7.8	5
240	Optimal Geometrical Configuration of Cobalt Cations in Spinel Oxides to Promote Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 4766-4772	3.6	18
239	Regulating Hydrogenation Chemoselectivity of α -Unsaturated Aldehydes by Combination of Transfer and Catalytic Hydrogenation. <i>ChemSusChem</i> , 2020 , 13, 1746-1750	8.3	11
238	Optimal Geometrical Configuration of Cobalt Cations in Spinel Oxides to Promote Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4736-4742	16.4	74
237	Achieving electronic structure reconfiguration in metallic carbides for robust electrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2453-2462	13	38
236	Hierarchically Ordered Porous Carbon with Atomically Dispersed FeN for Ultraefficient Oxygen Reduction Reaction in Proton-Exchange Membrane Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2688-2694	16.4	194
235	Hierarchically Ordered Porous Carbon with Atomically Dispersed FeN ₄ for Ultraefficient Oxygen Reduction Reaction in Proton-Exchange Membrane Fuel Cells. <i>Angewandte Chemie</i> , 2020 , 132, 2710-2716	2.6	21
234	Activity Origins and Design Principles of Nickel-Based Catalysts for Nucleophile Electrooxidation. <i>Chem</i> , 2020 , 6, 2974-2993	16.2	91
233	Interlayer ligand engineering of ENi(OH) ₂ for oxygen evolution reaction. <i>Science China Chemistry</i> , 2020 , 63, 1684-1693	7.9	6
232	Sulfur-Rich (NH)MoS ₂ as a Highly Reversible Anode for Sodium/Potassium-Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 9626-9636	16.7	16
231	Identifying the Geometric Site Dependence of Spinel Oxides for the Electrooxidation of 5-Hydroxymethylfurfural. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19215-19221	16.4	66

230	Identifying the Geometric Site Dependence of Spinel Oxides for the Electrooxidation of 5-Hydroxymethylfurfural. <i>Angewandte Chemie</i> , 2020 , 132, 19377-19383	3.6	24
229	Controlled chelation between tannic acid and Fe precursors to obtain N, S co-doped carbon with high density Fe-single atom-nanoclusters for highly efficient oxygen reduction reaction in Zn air batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17136-17149	13	23
228	Defect Chemistry in Heterogeneous Catalysis: Recognition, Understanding, and Utilization. <i>ACS Catalysis</i> , 2020 , 10, 11082-11098	13.1	131
227	Non-Metal Single-Phosphorus-Atom Catalysis of Hydrogen Evolution. <i>Angewandte Chemie</i> , 2020 , 132, 23999-24007	3.6	12
226	Non-Metal Single-Phosphorus-Atom Catalysis of Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23791-23799	16.4	28
225	Regulation of Morphology and Electronic Structure of NiSe by Fe for High Effective Oxygen Evolution Reaction. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 3845-3852	4.5	6
224	Room temperature plasma enriching oxygen vacancies of WO ₃ nanoflakes for photoelectrochemical water oxidation. <i>Journal of Alloys and Compounds</i> , 2020 , 816, 152610	5.7	9
223	Charge Transfer Modulated Activity of Carbon-Based Electrocatalysts. <i>Advanced Energy Materials</i> , 2020 , 10, 1901227	21.8	93
222	Na/Li-Ion Batteries: S-Doped Carbon Fibers Uniformly Embedded with Ultrasmall TiO ₂ for Na ⁺ /Li ⁺ Storage with High Capacity and Long-Time Stability (Small 38/2019). <i>Small</i> , 2019 , 15, 1970207	11	
221	Electrochemical Oxidation of 5-Hydroxymethylfurfural on Nickel Nitride/Carbon Nanosheets: Reaction Pathway Determined by In Situ Sum Frequency Generation Vibrational Spectroscopy. <i>Angewandte Chemie</i> , 2019 , 131, 16042-16050	3.6	47
220	Electrochemical Oxidation of 5-Hydroxymethylfurfural on Nickel Nitride/Carbon Nanosheets: Reaction Pathway Determined by In Situ Sum Frequency Generation Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15895-15903	16.4	141
219	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. <i>Nature Catalysis</i> , 2019 , 2, 688-695	36.5	251
218	Micromachining of ferrous metal with an ion implanted diamond cutting tool. <i>Carbon</i> , 2019 , 152, 598-608	0.4	11
217	Single-crystalline layered double hydroxides with rich defects and hierarchical structure by mild reduction for enhancing the oxygen evolution reaction. <i>Science China Chemistry</i> , 2019 , 62, 1365-1370	7.9	53
216	Zirconium-Regulation-Induced Bifunctionality in 3D Cobalt-Iron Oxide Nanosheets for Overall Water Splitting. <i>Advanced Materials</i> , 2019 , 31, e1901439	24	191
215	Insight into the design of defect electrocatalysts: From electronic structure to adsorption energy. <i>Materials Today</i> , 2019 , 31, 47-68	21.8	173
214	Modulating the electronic structure of ultrathin layered double hydroxide nanosheets with fluorine: an efficient electrocatalyst for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14483-14488	13	50
213	Efficiency and stability of narrow-gap semiconductor-based photoelectrodes. <i>Energy and Environmental Science</i> , 2019 , 12, 2345-2374	35.4	44

212	Transition Metal-dinitrogen Complex Embedded Graphene for Nitrogen Reduction Reaction. <i>ChemCatChem</i> , 2019 , 11, 2821-2827	5.2	49
211	Rational design of three-phase interfaces for electrocatalysis. <i>Nano Research</i> , 2019 , 12, 2055-2066	10	86
210	Engineering the electronic structure of Co ₃ O ₄ by carbon-doping for efficient overall water splitting. <i>Electrochimica Acta</i> , 2019 , 303, 316-322	6.7	65
209	Tuning the Electrochemical Property of the Ultrafine Metal-oxide Nanoclusters by Iron Phthalocyanine as Efficient Catalysts for Energy Storage and Conversion. <i>Energy and Environmental Materials</i> , 2019 , 2, 5-17	13	19
208	Low-temperature plasma technology for electrocatalysis. <i>Chinese Chemical Letters</i> , 2019 , 30, 826-838	8.1	28
207	Surface chemical-functionalization of ultrathin two-dimensional nanomaterials for electrocatalysis. <i>Materials Today Energy</i> , 2019 , 12, 250-268	7	32
206	3D-crosslinked tannic acid/poly(ethylene oxide) complex as a three-in-one multifunctional binder for high-sulfur-loading and high-stability cathodes in lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019 , 17, 293-299	19.4	51
205	S-Doped Carbon Fibers Uniformly Embedded with Ultrasmall TiO for Na /Li Storage with High Capacity and Long-Time Stability. <i>Small</i> , 2019 , 15, e1902201	11	31
204	Interfacial effects in supported catalysts for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23432-23450	13	57
203	A high-performance, highly bendable quasi-solid-state zinc/organic battery enabled by intelligent proton-self-buffering copolymer cathodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17292-17298	13	33
202	Disordered CoFePi nanosheets with rich vacancies as oxygen evolving electrocatalysts: Insight into the local atomic environment. <i>Journal of Power Sources</i> , 2019 , 427, 215-222	8.9	22
201	Tuning the Electron Localization of Gold Enables the Control of Nitrogen-to-Ammonia Fixation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18604-18609	16.4	102
200	Tuning the Electron Localization of Gold Enables the Control of Nitrogen-to-Ammonia Fixation. <i>Angewandte Chemie</i> , 2019 , 131, 18777-18782	3.6	3
199	Electronic structure regulation on layered double hydroxides for oxygen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 1822-1840	11.3	32
198	Quinary Defect-Rich Ultrathin Bimetal Hydroxide Nanosheets for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44018-44025	9.5	13
197	Supported Single Atoms as New Class of Catalysts for Electrochemical Reduction of Carbon Dioxide. <i>Small Methods</i> , 2019 , 3, 1800440	12.8	104
196	In-situ evolution of active layers on commercial stainless steel for stable water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 277-285	21.8	64
195	Defects-Induced In-Plane Heterophase in Cobalt Oxide Nanosheets for Oxygen Evolution Reaction. <i>Small</i> , 2019 , 15, e1904903	11	39

194	Defective glycerolatocobalt(ii) for enhancing the oxygen evolution reaction. <i>Chemical Communications</i> , 2019 , 55, 12861-12864	5.8	5
193	Low-temperature synthesis of small-sized high-entropy oxides for water oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24211-24216	13	69
192	Chemically activated MoS ₂ for efficient hydrogen production. <i>Nano Energy</i> , 2019 , 57, 535-541	17.1	55
191	Defect-Based Single-Atom Electrocatalysts. <i>Small Methods</i> , 2019 , 3, 1800406	12.8	94
190	Bridging the Surface Charge and Catalytic Activity of a Defective Carbon Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1019-1024	16.4	162
189	B ₂ N Pairs Enriched Defective Carbon Nanosheets for Ammonia Synthesis with High Efficiency. <i>Small</i> , 2019 , 15, e1805029	11	119
188	Photoelectrochemical Synthesis of Ammonia on the Aerophilic-Hydrophilic Heterostructure with 37.8% Efficiency. <i>CheM</i> , 2019 , 5, 617-633	16.2	144
187	Efficient Metal-Free Electrocatalysts from N-Doped Carbon Nanomaterials: Mono-Doping and Co-Doping. <i>Advanced Materials</i> , 2019 , 31, e1805121	24	205
186	Defect Engineering Strategies for Nitrogen Reduction Reactions under Ambient Conditions. <i>Small Methods</i> , 2019 , 3, 1800331	12.8	134
185	Antimony Nanorod Encapsulated in Cross-Linked Carbon for High-Performance Sodium Ion Battery Anodes. <i>Nano Letters</i> , 2019 , 19, 538-544	11.5	81
184	Bridging the Surface Charge and Catalytic Activity of a Defective Carbon Electrocatalyst. <i>Angewandte Chemie</i> , 2019 , 131, 1031-1036	3.6	29
183	Transforming Co ₃ O ₄ nanosheets into porous N-doped Co O nanosheets with oxygen vacancies for the oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2019 , 35, 24-29	12	75
182	Rational Design of Transition Metal-Based Materials for Highly Efficient Electrocatalysis. <i>Small Methods</i> , 2019 , 3, 1800211	12.8	166
181	First-principles study of methanol adsorption on heteroatom-doped phosphorene. <i>Chinese Chemical Letters</i> , 2019 , 30, 207-210	8.1	13
180	Graphene-Encapsulated FeS in Carbon Fibers as High Reversible Anodes for Na /K Batteries in a Wide Temperature Range. <i>Small</i> , 2019 , 15, e1804740	11	82
179	Recent Advances on Non-precious Metal Porous Carbon-based Electrocatalysts for Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018 , 5, 1775-1785	4.3	114
178	Tuning Surface Electronic Configuration of NiFe LDHs Nanosheets by Introducing Cation Vacancies (Fe or Ni) as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>Small</i> , 2018 , 14, e1800136	11	239
177	Pyridinic-N-Dominated Doped Defective Graphene as a Superior Oxygen Electrocatalyst for Ultrahigh-Energy-Density Zn/Air Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 1183-1191	20.1	325

176	Supramolecular bimetallogels: a nanofiber network for bimetal/nitrogen co-doped carbon electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8227-8232	13	20
175	3D Carbon Electrocatalysts In Situ Constructed by Defect-Rich Nanosheets and Polyhedrons from NaCl-Sealed Zeolitic Imidazolate Frameworks. <i>Advanced Functional Materials</i> , 2018 , 28, 1705356	15.6	180
174	Plasma-Assisted Synthesis and Surface Modification of Electrode Materials for Renewable Energy. <i>Advanced Materials</i> , 2018 , 30, e1705850	24	323
173	Hybrid thermoelectric battery electrode FeS ₂ study. <i>Nano Energy</i> , 2018 , 45, 432-438	17.1	25
172	Iron-Doped NiCoP Porous Nanosheet Arrays as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018 , 1, 571-579	6.1	65
171	LDHs derived nanoparticle-stacked metal nitride as interlayer for long-life lithium sulfur batteries. <i>Science Bulletin</i> , 2018 , 63, 169-175	10.6	48
170	Porous CoP nanosheets converted from layered double hydroxides with superior electrochemical activity for hydrogen evolution reactions at wide pH ranges. <i>Chemical Communications</i> , 2018 , 54, 1465-1468	5.8	102
169	N, P-dual doped carbon with trace Co and rich edge sites as highly efficient electrocatalyst for oxygen reduction reaction. <i>Science China Materials</i> , 2018 , 61, 679-685	7.1	48
168	Three-dimensional carbon frameworks enabling MoS ₂ as anode for dual ion batteries with superior sodium storage properties. <i>Energy Storage Materials</i> , 2018 , 15, 22-30	19.4	97
167	Efficient Encapsulation of Small S Molecules in MOF-Derived Flowerlike Nitrogen-Doped Microporous Carbon Nanosheets for High-Performance Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9435-9443	9.5	73
166	Controllable Synthesis of CoS ₂ @N/S-Codoped Porous Carbon Derived from ZIF-67 for as a Highly Efficient Catalyst for the Hydrogen Evolution Reaction. <i>ChemCatChem</i> , 2018 , 10, 796-803	5.2	32
165	Crystalline-Water/Coordination Induced Formation of 3D Highly Porous Heteroatom-Doped Ultrathin Carbon Nanosheet Networks for Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2018 , 10, 4562-4568	5.2	13
164	Fe-doped phosphorene for the nitrogen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13790-13796	13	109
163	Defect-Enhanced Charge Separation and Transfer within Protection Layer/Semiconductor Structure of Photoanodes. <i>Advanced Materials</i> , 2018 , 30, e1801773	24	51
162	Defect engineering on electrocatalysts for gas-evolving reactions. <i>Dalton Transactions</i> , 2018 , 48, 15-20	4.3	35
161	In Situ Exfoliated, N-Doped, and Edge-Rich Ultrathin Layered Double Hydroxides Nanosheets for Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2018 , 28, 1703363	15.6	258
160	Engineering the coordination geometry of metal-organic complex electrocatalysts for highly enhanced oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 805-810	13	57
159	Recent Progress on Layered Double Hydroxides and Their Derivatives for Electrocatalytic Water Splitting. <i>Advanced Science</i> , 2018 , 5, 1800064	13.6	329

158	Hierarchically porous MOF/polymer composites via interfacial nanoassembly and emulsion polymerization. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20473-20479	13	53
157	One-step, room temperature generation of porous and amorphous cobalt hydroxysulfides from layered double hydroxides for superior oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24311-24316	13	62
156	Enriched nucleation sites for Pt deposition on ultrathin WO ₃ nanosheets with unique interactions for methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23028-23033	13	49
155	Quaternary bimetallic phosphosulphide nanosheets derived from prussian blue analogues: Origin of the ultra-high activity for oxygen evolution. <i>Journal of Power Sources</i> , 2018 , 403, 90-96	8.9	73
154	Defect Engineering of Cobalt-Based Materials for Electrocatalytic Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15954-15969	8.3	107
153	In Situ Activating Strategy to Significantly Boost Oxygen Electrocatalysis of Commercial Carbon Cloth for Flexible and Rechargeable Zn-Air Batteries. <i>Advanced Science</i> , 2018 , 5, 1800760	13.6	64
152	Carbon-Based, Metal-Free Electrocatalysts for Renewable Energy Technologies 2018 , 313-334		
151	A facile annealing strategy for achieving in situ controllable Cu ₂ O nanoparticle decorated copper foil as a current collector for stable lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18444-18448	13	54
150	Interface engineering of Pt and CeO ₂ nanorods with unique interaction for methanol oxidation. <i>Nano Energy</i> , 2018 , 53, 604-612	17.1	131
149	Crystalline TiO protective layer with graded oxygen defects for efficient and stable silicon-based photocathode. <i>Nature Communications</i> , 2018 , 9, 3572	17.4	107
148	Preferential Cation Vacancies in Perovskite Hydroxide for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2018 , 130, 8827-8832	3.6	33
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146	Nitrogen-Doped CoP Electrocatalysts for Coupled Hydrogen Evolution and Sulfur Generation with Low Energy Consumption. <i>Advanced Materials</i> , 2018 , 30, e1800140	24	224
145	Recent Advances on Black Phosphorus for Energy Storage, Catalysis, and Sensor Applications. <i>Advanced Materials</i> , 2018 , 30, e1800295	24	166
144	Rapid cationic defect and anion dual-regulated layered double hydroxides for efficient water oxidation. <i>Nanoscale</i> , 2018 , 10, 13638-13644	7.7	58
143	A general approach to cobalt-based homobimetallic phosphide ultrathin nanosheets for highly efficient oxygen evolution in alkaline media. <i>Energy and Environmental Science</i> , 2017 , 10, 893-899	35.4	342
142	Efficient and Durable Bifunctional Oxygen Catalysts Based on NiFeO@MnO Core-Shell Structures for Rechargeable Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8121-8133	9.5	64
141	Three-dimensional hierarchical MoS ₂ /CoS ₂ heterostructure arrays for highly efficient electrocatalytic hydrogen evolution. <i>Green Energy and Environment</i> , 2017 , 2, 134-141	5.7	52

140	In Situ Exfoliated, Edge-Rich, Oxygen-Functionalized Graphene from Carbon Fibers for Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2017 , 29, 1606207	24	423
139	Synthesis of electrocatalytically functional carbon honeycombs through cooking with molecule precursors. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6472-6481	6.7	12
138	Ultrafine nano-sulfur particles anchored on in situ exfoliated graphene for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9412-9417	13	68
137	Layered Double Hydroxide Nanosheets with Multiple Vacancies Obtained by Dry Exfoliation as Highly Efficient Oxygen Evolution Electrocatalysts. <i>Angewandte Chemie</i> , 2017 , 129, 5961-5965	3.6	70
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135	Defect Chemistry of Nonprecious-Metal Electrocatalysts for Oxygen Reactions. <i>Advanced Materials</i> , 2017 , 29, 1606459	24	943
134	Prospects of fuel cell technologies. <i>National Science Review</i> , 2017 , 4, 163-166	10.8	170
133	Comb-like polymer with sulfo groups and its dispersion and rheological properties in aqueous ceramic suspensions. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	2
132	p-Type SnO thin layers on n-type SnS ₂ nanosheets with enriched surface defects and embedded charge transfer for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 512-518	13	85
131	Water-Plasma-Enabled Exfoliation of Ultrathin Layered Double Hydroxide Nanosheets with Multivacancies for Water Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1701546	24	417
130	Few-Layer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2017 , 7, 1700396	21.8	251
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6	Recent Progress on Electrocatalytic Valorization of Biomass-Derived Organics. <i>Energy and Environmental Materials</i> ,	13	2
5	Green Synthesis of Nitrogen-to-Ammonia Fixation: Past, Present, and Future. <i>Energy and Environmental Materials</i> ,	13	8
4	Construction of Nickel-Based Dual Heterointerfaces towards Accelerated Alkaline Hydrogen Evolution via Boosting Multi-Step Elementary Reaction. <i>Advanced Functional Materials</i> ,2104827	15.6	4
3	Defect Engineering on CeO ₂ -Based Catalysts for Heterogeneous Catalytic Applications. <i>Small Structures</i> ,2100058	8.7	14
2	Magnetic Doping Induced Strong Circularly Polarized Light Emission and Detection in 2D Layered Halide Perovskite. <i>Advanced Optical Materials</i> ,2200183	8.1	5
1	Manipulating Picosecond Photoresponse in van der Waals Heterostructure Photodetectors. <i>Advanced Functional Materials</i> ,2200973	15.6	