

Shichun Mu

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.

309
papers

17,025
citations

75
h-index

116
g-index

318
ext. papers

21,693
ext. citations

10.7
avg, IF

7.32
L-index

#	Paper	IF	Citations
309	Surface Engineering and Trace Cobalt Doping Suppress Overall Li/Ni Mixing of Li-rich Mn-based Cathode Materials.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
308	Nurturing the marriages of single atoms with atomic clusters and nanoparticles for better heterogeneous electrocatalysis 2022 , 1, 51-87		12
307	Spherical Ni S /Fe-NiP Magic Cube with Ultrahigh Water/Seawater Oxidation Efficiency.. <i>Advanced Science</i> , 2022 , 9, e2104846	13.6	12
306	Tuning the Fe ^{N4} sites by introducing Bi ³⁺ bonds in a Fe ^{N4} system for promoting the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 664-671	13	0
305	Defective RuO ₂ /TiO ₂ nano-heterostructure advances hydrogen production by electrochemical water splitting. <i>Chemical Engineering Journal</i> , 2022 , 431, 134072	14.7	5
304	Metal-organic frameworks derived RuP ₂ with yolk-shell structure and efficient performance for hydrogen evolution reaction in both acidic and alkaline media. <i>Applied Catalysis B: Environmental</i> , 2022 , 305, 121043	21.8	4
303	Rational design of electrospun nanofiber-typed electrocatalysts for water splitting: A review. <i>Chemical Engineering Journal</i> , 2022 , 428, 131133	14.7	20
302	Ultra-small platinum nanoparticles segregated by nickle sites for efficient ORR and HER processes. <i>Journal of Energy Chemistry</i> , 2022 , 65, 48-54	12	14
301	Single-crystal high-nickel layered cathodes for lithium-ion batteries: advantages, mechanism, challenges and approaches. <i>Current Opinion in Electrochemistry</i> , 2022 , 31, 100831	7.2	4
300	Phosphorus-induced reconstruction of Sub-20nm ultrafine spinel type CoO nanosheets for efficient water oxidation. <i>Journal of Alloys and Compounds</i> , 2022 , 889, 161704	5.7	0
299	Metastable five-fold twinned Ru incorporated Cu nanosheets with Pt-like hydrogen evolution kinetics. <i>Chemical Engineering Journal</i> , 2022 , 428, 131099	14.7	1
298	Duetting electronic structure modulation of Ru atoms in RuSe ₂ @NC enables more moderate H ⁺ adsorption and water dissociation for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7637-7644	13	1
297	Concave Pt-Zn Nanocubes with High-Index Faceted Pt Skin as Highly Efficient Oxygen Reduction Catalyst.. <i>Advanced Science</i> , 2022 , e2200147	13.6	5
296	Cation/Anion Dual-Vacancy Pair Modulated Atomically-Thin Se -Co S Nanosheets with Extremely High Water Oxidation Performance in Ultralow-Concentration Alkaline Solutions.. <i>Small</i> , 2022 , e2108097 ¹¹		2
295	Geometric Engineering of Porous PtCu Nanotubes with Ultrahigh Methanol Oxidation and Oxygen Reduction Capability.. <i>Small</i> , 2022 , e2107387	11	7
294	Polymetallic Phosphides evolved from MOF and LDH dual-precursors for Robust Oxygen Evolution Reaction in Alkaline and Seawater Media. <i>Materials Today Physics</i> , 2022 , 100684	8	1
293	Dual anion-doped porous carbon embraced TiO ₂ nanocrystals with long-term cycling performance for sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164321	5.7	0

292	Ionic liquid-derived FeCo alloys encapsulated in nitrogen-doped carbon framework as advanced bifunctional catalysts for rechargeable Zn-air batteries. <i>Journal of Alloys and Compounds</i> , 2022 , 908, 164565	5.7	6
291	Inhibiting Mn Migration by Sb-Pinning Transition Metal Layers in Lithium-Rich Cathode Material for Stable High-Capacity Properties.. <i>Small</i> , 2022 , e2200713	11	1
290	Anion-modulated Molybdenum Oxide Enclosed Ruthenium Nano-capsules with Almost the Same Water Splitting Capability in Acidic and Alkaline Media. <i>Nano Energy</i> , 2022 , 107445	17.1	2
289	Janus-faced graphene substrate stabilizes lithium metal anode. <i>Chemical Engineering Journal</i> , 2021 , 433, 133561	14.7	0
288	Ultra-Fast and In-Depth Reconstruction of Transition Metal Fluorides in Electrocatalytic Hydrogen Evolution Processes. <i>Advanced Science</i> , 2021 , e2103567	13.6	9
287	Ru-Incorporated Nickel Diselenide Nanosheet Arrays with Accelerated Adsorption Kinetics toward Overall Water Splitting. <i>Small</i> , 2021 , e2105305	11	9
286	Stabilizing Fe-N-C Catalysts as Model for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2021 , 8, e2102209	19.6	12
285	Phosphorus-Driven Electron Delocalization on Edge-Type FeN ₄ Active Sites for Oxygen Reduction in Acid Medium. <i>ACS Catalysis</i> , 2021 , 11, 12754-12762	13.1	14
284	Molybdenum Carbide-PtCu Nanoalloy Heterostructures on MOF-Derived Carbon toward Efficient Hydrogen Evolution. <i>Small</i> , 2021 , 17, e2104241	11	6
283	Regulative Electronic States around Ruthenium/Ruthenium Disulphide Heterointerfaces for Efficient Water Splitting in Acidic Media. <i>Angewandte Chemie</i> , 2021 , 133, 12436-12442	3.6	10
282	Regulative Electronic States around Ruthenium/Ruthenium Disulphide Heterointerfaces for Efficient Water Splitting in Acidic Media. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12328-12334	16.4	47
281	Regulating Fe-spin state by atomically dispersed Mn-N in Fe-N-C catalysts with high oxygen reduction activity. <i>Nature Communications</i> , 2021 , 12, 1734	17.4	138
280	Propagating Fe-N ₄ active sites with Vitamin C to efficiently drive oxygen electrocatalysis. <i>Nano Energy</i> , 2021 , 82, 105714	17.1	20
279	Electronic tuning of confined sub-nanometer cobalt oxide clusters boosting oxygen catalysis and rechargeable Zn-air batteries. <i>Nano Energy</i> , 2021 , 83, 105813	17.1	36
278	Sulfate Ions Induced Concave Porous S-N Co-Doped Carbon Confined FeC Nanoclusters with Fe-N Sites for Efficient Oxygen Reduction in Alkaline and Acid Media. <i>Small</i> , 2021 , 17, e2101001	11	13
277	Design Engineering, Synthesis Protocols, and Energy Applications of MOF-Derived Electrocatalysts. <i>Nano-Micro Letters</i> , 2021 , 13, 132	19.5	26
276	Highly Reduced Graphene Assembly Film as Current Collector for Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8635-8641	8.3	4
275	Anion Modulation of Pt-Group Metals and Electrocatalysis Applications. <i>Chemistry - A European Journal</i> , 2021 , 27, 12257-12271	4.8	7

274	A new strategy to access Co/N co-doped carbon nanotubes as oxygen reduction reaction catalysts. <i>Chinese Chemical Letters</i> , 2021 , 32, 535-538	8.1	6
273	Atomic Level Dispersed Metal-Nitrogen-Carbon Catalyst toward Oxygen Reduction Reaction: Synthesis Strategies and Chemical Environmental Regulation. <i>Energy and Environmental Materials</i> , 2021 , 4, 5-18	13	25
272	3D-ZIF scaffold derived carbon encapsulated iron nitride as a synergistic catalyst for ORR and zinc-air battery cathodes. <i>Carbon</i> , 2021 , 171, 368-375	10.4	23
271	Defects enriched hollow porous Co-N-doped carbons embedded with ultrafine CoFe/Co nanoparticles as bifunctional oxygen electrocatalyst for rechargeable flexible solid zinc-air batteries. <i>Nano Research</i> , 2021 , 14, 868-878	10	35
270	RuRh Bimetallic Nanoring as High-efficiency pH-Universal Catalyst for Hydrogen Evolution Reaction. <i>Advanced Science</i> , 2021 , 8, 2002341	13.6	30
269	The assembling principle and strategies of high-density atomically dispersed catalysts. <i>Chemical Engineering Journal</i> , 2021 , 417, 127917	14.7	4
268	Synchronously improved graphitization and surface area in a 3D porous carbon network as a high capacity anode material for lithium/sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1260-1268	13	16
267	Synthesis, Modification, and Lithium-Storage Properties of Spinel LiNi _{0.5} Mn _{1.5} O ₄ . <i>ChemElectroChem</i> , 2021 , 8, 608-624	4.3	5
266	Active site engineering of atomically dispersed transition metal-heteroatom-carbon catalysts for oxygen reduction. <i>Chemical Communications</i> , 2021 , 57, 7869-7881	5.8	9
265	Defect and Doping-Co-Engineered Non-Metal Nanocarbon ORR Electrocatalyst. <i>Nano-Micro Letters</i> , 2021 , 13, 65	19.5	49
264	Two-Dimensional MoS ₂ : Structural Properties, Synthesis Methods, and Regulation Strategies toward Oxygen Reduction. <i>Micromachines</i> , 2021 , 12,	3.3	12
263	Potassium-Ion Activating Formation of Fe-Nitrogen Moiety as Efficient Oxygen Electrocatalyst for Zn-Air Batteries. <i>ChemElectroChem</i> , 2021 , 8, 1298-1306	4.3	4
262	Synergizing aliovalent doping and interface in heterostructured NiV nitride@oxyhydroxide core-shell nanosheet arrays enables efficient oxygen evolution. <i>Nano Energy</i> , 2021 , 85, 105961	17.1	26
261	Ultralow Ru Incorporated Amorphous Cobalt-Based Oxides for High-Current-Density Overall Water Splitting in Alkaline and Seawater Media. <i>Small</i> , 2021 , 17, e2102777	11	26
260	Trace Oxophilic Metal Induced Surface Reconstruction at Buried RuRh Cluster Interfaces Possesses Extremely Fast Hydrogen Redox Kinetics. <i>Nano Energy</i> , 2021 , 90, 106579	17.1	9
259	Boosting Nitrogen Reduction to Ammonia on FeN Sites by Atomic Spin Regulation. <i>Advanced Science</i> , 2021 , 8, e2102915	13.6	11
258	In situ implanting fine ZnSe nanoparticles into N-doped porous carbon nanosheets as an exposed highly active and long-life anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 876, 160135	5.7	6
257	Cobalt single atom site isolated Pt nanoparticles for efficient ORR and HER in acid media. <i>Nano Energy</i> , 2021 , 88, 106221	17.1	41

256	Superior electrochemical water oxidation in vacancy defect-rich 1.5 nm ultrathin trimetal-organic framework nanosheets. <i>Applied Catalysis B: Environmental</i> , 2021 , 296, 120095	21.8	16
255	Interfacial engineering of Co nanoparticles/Co ₂ C nanowires boosts overall water splitting kinetics. <i>Applied Catalysis B: Environmental</i> , 2021 , 296, 120334	21.8	22
254	Awakening the oxygen evolution activity of MoS ₂ by oxophilic-metal induced surface reorganization engineering. <i>Journal of Energy Chemistry</i> , 2021 , 62, 546-551	12	11
253	Anion-Modulated Platinum for High-Performance Multifunctional Electrocatalysis toward HER, HOR, and ORR. <i>IScience</i> , 2020 , 23, 101793	6.1	20
252	Structurally Ordered Pt ₃ Co Nanoparticles Anchored on N-Doped Graphene for Highly Efficient Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16938-16945	8.3	6
251	Hydrazine Hydrate Induced Two-Dimensional Porous Co ³⁺ Enriched Co ₃ O ₄ Nanosheets for Enhanced Water Oxidation Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9813-9821	8.3	28
250	Ultralow Ru Loading Transition Metal Phosphides as High-Efficient Bifunctional Electrocatalyst for a Solar-to-Hydrogen Generation System. <i>Advanced Energy Materials</i> , 2020 , 10, 2000814	21.8	88
249	Defect-enriched hollow porous Co/N-doped carbon for oxygen reduction reaction and Zn-Air batteries. <i>Carbon</i> , 2020 , 167, 188-195	10.4	33
248	Engineering of Hollow Porous Mo C@C Nanoballs Derived From Giant Mo-Polydopamine Clusters as Highly Efficient Electrocatalysts for Hydrogen Evolution. <i>Frontiers in Chemistry</i> , 2020 , 8, 170	5	6
247	Surface nitridation of nickel-cobalt alloy nanocactoids raises the performance of water oxidation and splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118889	21.8	60
246	Defect Engineering in Carbon-Based Electrocatalysts: Insight into Intrinsic Carbon Defects. <i>Advanced Functional Materials</i> , 2020 , 30, 2001097	15.6	132
245	Interface Engineering of Hierarchical Branched Mo-Doped Ni ₃ S ₂ /Ni ₂ P Hollow Heterostructure Nanorods for Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , 2020 , 10, 1903891	21.8	225
244	Lifting the energy density of lithium ion batteries using graphite film current collectors. <i>Journal of Power Sources</i> , 2020 , 455, 227991	8.9	11
243	Constructing a Rod-like CoFeP@Ru Heterostructure with Additive Active Sites for Water Splitting. <i>ChemCatChem</i> , 2020 , 12, 5149-5155	5.2	3
242	Ultra-thin N-doped-graphene encapsulated Ni nanoparticles coupled with MoO ₂ nanosheets for highly efficient water splitting at large current density. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14545-14554	12.6	61
241	Solid-gas Phase Preparation Method for Porous Molybdenum Trioxide. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020 , 35, 495-500	1	
240	ZIF-8/LiFePO ₄ derived Fe-N-P Co-doped carbon nanotube encapsulated Fe ₂ P nanoparticles for efficient oxygen reduction and Zn-air batteries. <i>Nano Research</i> , 2020 , 13, 818-823	10	39
239	Phosphorous-doped carbon coordinated iridium diphosphide bifunctional catalyst with ultralow iridium amount for efficient all-pH-value hydrogen evolution and oxygen reduction reactions. <i>Journal of Catalysis</i> , 2020 , 383, 244-253	7.3	20

238	Nitrogen-Doped carbon coupled FeNi ₃ intermetallic compound as advanced bifunctional electrocatalyst for OER, ORR and zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118729	21.8	141
237	Robust MOF-253-derived N-doped carbon confinement of Pt single nanocrystal electrocatalysts for oxygen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 839-846	11.3	20
236	Construction of an iron and oxygen co-doped nickel phosphide based on MOF derivatives for highly efficient and long-enduring water splitting. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4570-4578	13	56
235	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. <i>Nano-Micro Letters</i> , 2020 , 12, 21	19.5	83
234	3D flower-like ZnFe-ZIF derived hierarchical Fe, N-Codoped carbon architecture for enhanced oxygen reduction in both alkaline and acidic media, and zinc-air battery performance. <i>Carbon</i> , 2020 , 161, 502-509	10.4	40
233	Boron-rich environment boosting ruthenium boride on B, N doped carbon outperforms platinum for hydrogen evolution reaction in a universal pH range. <i>Nano Energy</i> , 2020 , 75, 104881	17.1	43
232	High conductive graphene assembled films with porous micro-structure for freestanding and ultra-low power strain sensors. <i>Science Bulletin</i> , 2020 , 65, 1363-1370	10.6	17
231	Enhancement of the performance of Pd nanoclusters confined within ultrathin silica layers for formic acid oxidation. <i>Nanoscale</i> , 2020 , 12, 12891-12897	7.7	10
230	Cage-confinement pyrolysis route to size-controlled molybdenum-based oxygen electrode catalysts: From isolated atoms to clusters and nanoparticles. <i>Nano Energy</i> , 2020 , 67, 104288	17.1	65
229	Phosphorus-triggered synergy of phase transformation and chalcogenide vacancy migration in cobalt sulfide for an efficient oxygen evolution reaction. <i>Nanoscale</i> , 2020 , 12, 3129-3134	7.7	23
228	Double Metal Diphosphide Pair Nanocages Coupled with P-Doped Carbon for Accelerated Oxygen and Hydrogen Evolution Kinetics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 727-733	9.5	65
227	Synergizing in-grown Ni ₃ N/Ni heterostructured core and ultrathin Ni ₃ N surface shell enables self-adaptive surface reconfiguration and efficient oxygen evolution reaction. <i>Nano Energy</i> , 2020 , 78, 105355	17.1	56
226	Tuning the dual-active sites of ZIF-67 derived porous nanomaterials for boosting oxygen catalysis and rechargeable Zn-air batteries. <i>Nano Research</i> , 2020 , 14, 2353	10	18
225	Ultrafine IrNi Bimetals Encapsulated in Zeolitic Imidazolate Frameworks-Derived Porous N-Doped Carbon for Boosting Oxygen Evolution in Both Alkaline and Acidic Electrolytes. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001145	4.6	4
224	Ru-doped 3D flower-like bimetallic phosphide with a climbing effect on overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119396	21.8	127
223	Synergistic Coupling of Ni Nanoparticles with Ni C Nanosheets for Highly Efficient Overall Water Splitting. <i>Small</i> , 2020 , 16, e2001642	11	55
222	Thiourea-Zeolitic imidazolate Framework-67 assembly derived Co ₂ O nanoparticles encapsulated in N, S Codoped open carbon shell as bifunctional oxygen electrocatalyst for rechargeable flexible solid Zn-air batteries. <i>Journal of Power Sources</i> , 2020 , 473, 228570	8.9	24
221	NiFe LDH/CuO nanosheet: a sheet-on-sheet strategy to boost the active site density towards oxygen evolution reaction.. <i>RSC Advances</i> , 2020 , 10, 27424-27427	3.7	5

220	Ionothermal Route to Phase-Pure RuB ₂ Catalysts for Efficient Oxygen Evolution and Water Splitting in Acidic Media. <i>ACS Energy Letters</i> , 2020 , 5, 2909-2915	20.1	56
219	MOF-assisted synthesis of octahedral carbon-supported PtCu nanoalloy catalysts for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19348-19356	13	27
218	Transition-Metal Phosphides: Activity Origin, Energy-Related Electrocatalysis Applications, and Synthetic Strategies. <i>Advanced Functional Materials</i> , 2020 , 30, 2004009	15.6	122
217	Significantly Improved Water Oxidation of CoP Catalysts by Electrochemical Activation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17851-17859	8.3	30
216	Stabilizing sulfur vacancy defects by performing "click" chemistry of ultrafine palladium to trigger a high-efficiency hydrogen evolution of MoS. <i>Nanoscale</i> , 2020 , 12, 9943-9949	7.7	20
215	PBe bond oxygen reduction catalysts toward high-efficiency metal-air batteries and fuel cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9121-9127	13	26
214	Defect Engineering on Carbon-Based Catalysts for Electrocatalytic CO Reduction. <i>Nano-Micro Letters</i> , 2020 , 13, 5	19.5	34
213	Coupling NiSe ₂ -Ni ₂ P heterostructure nanowrinkles for highly efficient overall water splitting. <i>Journal of Catalysis</i> , 2019 , 377, 600-608	7.3	123
212	Highly Exposed Active Sites of Defect-Enriched Derived MOFs for Enhanced Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17855-17862	8.3	35
211	Structurally ordered PtSn intermetallic nanoparticles supported on ATO for efficient methanol oxidation reaction. <i>Nanoscale</i> , 2019 , 11, 19895-19902	7.7	21
210	Realizing the extraction of carbon from WC for in situ formation of W/WC heterostructures with efficient photoelectrochemical hydrogen evolution. <i>Nanoscale Horizons</i> , 2019 , 4, 196-201	10.8	21
209	Stabilizing Pt Nanocrystals Encapsulated in N-Doped Carbon as Double-Active Sites for Catalyzing Oxygen Reduction Reaction. <i>Langmuir</i> , 2019 , 35, 2580-2586	4	31
208	A universal synthesis strategy for P-rich noble metal diphosphide-based electrocatalysts for the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2019 , 12, 952-957	35.4	265
207	Graphene quantum dots encapsulated tremella-like NiCo ₂ O ₄ for advanced asymmetric supercapacitors. <i>Carbon</i> , 2019 , 146, 1-8	10.4	96
206	Vacancy-coordinated hydrogen evolution reaction on MoO ₃ anchored atomically dispersed MoRu pairs. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14466-14472	13	31
205	Carbon dioxide directly induced oxygen vacancy in the surface of lithium-rich layered oxides for high-energy lithium storage. <i>Journal of Power Sources</i> , 2019 , 432, 8-15	8.9	40
204	N,P-coordinated fullerene-like carbon nanostructures with dual active centers toward highly-efficient multi-functional electrocatalysis for CO ₂ RR, ORR and Zn-air battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15271-15277	13	60
203	Nano-single crystal coalesced PtCu nanospheres as robust bifunctional catalyst for hydrogen evolution and oxygen reduction reactions. <i>Journal of Catalysis</i> , 2019 , 375, 164-170	7.3	91

202	Cation vacancy-modulated PtPdRuTe five-fold twinned nanomaterial for catalyzing hydrogen evolution reaction. <i>Nano Energy</i> , 2019 , 61, 346-351	17.1	22
201	MOF-derived 3D Fe-N-S co-doped carbon matrix/nanotube nanocomposites with advanced oxygen reduction activity and stability in both acidic and alkaline media. <i>Applied Catalysis B: Environmental</i> , 2019 , 250, 143-149	21.8	117
200	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2019 , 9, 1803768	21.8	143
199	Twinned Tungsten Carbonitride Nanocrystals Boost Hydrogen Evolution Activity and Stability. <i>Small</i> , 2019 , 15, e1900248	11	44
198	Synergistic effect of charge transfer and short H-bonding on nanocatalyst surface for efficient oxygen evolution reaction. <i>Nano Energy</i> , 2019 , 59, 443-452	17.1	21
197	A universal synthesis strategy for single atom dispersed cobalt/metal clusters heterostructure boosting hydrogen evolution catalysis at all pH values. <i>Nano Energy</i> , 2019 , 59, 472-480	17.1	138
196	Ionic Liquid-Modified Microporous ZnCoNC-Based Electrocatalysts for Polymer Electrolyte Fuel Cells. <i>ACS Energy Letters</i> , 2019 , 4, 2104-2110	20.1	33
195	Phosphorization engineering ameliorated the electrocatalytic activity for overall water splitting on NiS nanosheets. <i>Dalton Transactions</i> , 2019 , 48, 13466-13471	4.3	21
194	Ultralow nitrogen-doped carbon coupled carbon-doped Co ₃ O ₄ microrods with tunable electron configurations for advanced Li-storage properties. <i>Electrochimica Acta</i> , 2019 , 327, 135059	6.7	12
193	Coupling low platinum and tungsten carbide supported on ZIFs-Derived porous carbon for efficient hydrogen evolution. <i>Electrochimica Acta</i> , 2019 , 328, 135077	6.7	4
192	An iron-doped cobalt phosphide nano-electrocatalyst derived from a metal-organic framework for efficient water splitting. <i>Dalton Transactions</i> , 2019 , 48, 16555-16561	4.3	34
191	Metal-organic frameworks derived reverse-encapsulation Co-NC@Mo ₂ C complex for efficient overall water splitting. <i>Nano Energy</i> , 2019 , 57, 746-752	17.1	222
190	An Isolated Zinc-Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. <i>Angewandte Chemie</i> , 2019 , 131, 2648-2652	3.6	78
189	An Isolated Zinc-Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2622-2626	16.4	292
188	Shrunken hollow Mo-N/Mo-C nanosphere structure for efficient hydrogen evolution in a broad pH range. <i>Electrochimica Acta</i> , 2019 , 298, 799-805	6.7	25
187	Iron oxide and phosphide encapsulated within N,P-doped microporous carbon nanofibers as advanced tri-functional electrocatalyst toward oxygen reduction/evolution and hydrogen evolution reactions and zinc-air batteries. <i>Journal of Power Sources</i> , 2019 , 413, 367-375	8.9	81
186	Effects of Intrinsic Pentagon Defects on Electrochemical Reactivity of Carbon Nanomaterials. <i>Angewandte Chemie</i> , 2019 , 131, 3899-3904	3.6	25
185	Effects of Intrinsic Pentagon Defects on Electrochemical Reactivity of Carbon Nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3859-3864	16.4	146

184	Tri-phase (1-x-y) Li ₂ FeSiO ₄ /xLiFeBO ₃ /yLiFePO ₄ nested nanostructure with enhanced Li-storage properties. <i>Chemical Engineering Journal</i> , 2019 , 358, 786-793	14.7	11
183	Mesoporous-silica induced doped carbon nanotube growth from metal-organic frameworks. <i>Nanoscale</i> , 2018 , 10, 6147-6154	7.7	73
182	Seed-mediated synthesis of large-diameter ternary TePtCo nanotubes for enhanced oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 231, 277-282	21.8	39
181	Effect of microstructure on HER catalytic properties of MoS ₂ vertically standing nanosheets. <i>Journal of Alloys and Compounds</i> , 2018 , 747, 100-108	5.7	21
180	Defective N/S-Codoped 3D Cheese-Like Porous Carbon Nanomaterial toward Efficient Oxygen Reduction and Zn-Air Batteries. <i>Small</i> , 2018 , 14, e1800563	11	105
179	Ultrahigh Conductive Copper/Large Flake Size Graphene Heterostructure Thin-Film with Remarkable Electromagnetic Interference Shielding Effectiveness. <i>Small</i> , 2018 , 14, e1704332	11	61
178	Electronic Structure Control of Tungsten Oxide Activated by Ni for Ultrahigh-Performance Supercapacitors. <i>Small</i> , 2018 , 14, e1800381	11	38
177	Highly sensitive wearable sensor based on a flexible multi-layer graphene film antenna. <i>Science Bulletin</i> , 2018 , 63, 574-579	10.6	56
176	Carbon nanotubes intercalated Co/N-doped porous carbon nanosheets as efficient electrocatalyst for oxygen reduction reaction and zinc-air batteries. <i>Chemical Engineering Journal</i> , 2018 , 342, 163-170	14.7	74
175	TePtFe Nanotubes as High-Performing Bifunctional Electrocatalysts for the Oxygen Reduction Reaction and Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2018 , 11, 1328-1333	8.3	17
174	Carbon Nanosheets Containing Discrete Co-N-B-C Active Sites for Efficient Oxygen Electrocatalysis and Rechargeable Zn-Air Batteries. <i>ACS Nano</i> , 2018 , 12, 1894-1901	16.7	294
173	CoP quantum dot embedded N, P dual-doped carbon self-supported electrodes with flexible and binder-free properties for efficient hydrogen evolution reactions. <i>Nanoscale</i> , 2018 , 10, 2902-2907	7.7	110
172	Transforming Two-Dimensional Boron Carbide into Boron and Chlorine Dual-Doped Carbon Nanotubes by Chlorination for Efficient Oxygen Reduction. <i>ACS Energy Letters</i> , 2018 , 3, 184-190	20.1	57
171	Flexible graphite films with high conductivity for radio-frequency antennas. <i>Carbon</i> , 2018 , 130, 164-169	10.4	60
170	Surface Evolution of PtCu Alloy Shell over Pd Nanocrystals Leads to Superior Hydrogen Evolution and Oxygen Reduction Reactions. <i>ACS Energy Letters</i> , 2018 , 3, 940-945	20.1	99
169	Ultrafine Molybdenum Carbide Nanocrystals Confined in Carbon Foams via a Colloid-Confinement Route for Efficient Hydrogen Production. <i>Small Methods</i> , 2018 , 2, 1700396	12.8	69
168	Defect and pyridinic nitrogen engineering of carbon-based metal-free nanomaterial toward oxygen reduction. <i>Nano Energy</i> , 2018 , 52, 307-314	17.1	114
167	Fe, Cu-Coordinated ZIF-Derived Carbon Framework for Efficient Oxygen Reduction Reaction and Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1802596	15.6	245

166	Rational inert-basal-plane activating design of ultrathin 1T' phase MoS with a MoO heterostructure for enhancing hydrogen evolution performances. <i>Nanoscale</i> , 2018 , 10, 16531-16538	7.7	56
165	Hexapod PtRuCu Nanocrystalline Alloy for Highly Efficient and Stable Methanol Oxidation. <i>ACS Catalysis</i> , 2018 , 8, 7578-7584	13.1	109
164	Distorted niobium-self-doped graphene in-situ grown from 2D niobium carbide for catalyzing oxygen reduction. <i>Carbon</i> , 2018 , 139, 1144-1151	10.4	12
163	From 3D ZIF Nanocrystals to Co _N x/C Nanorod Array Electrocatalysts for ORR, OER, and Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1704638	15.6	541
162	2D Dual-Metal Zeolitic-Imidazolate-Framework-(ZIF)-Derived Bifunctional Air Electrodes with Ultrahigh Electrochemical Properties for Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1705048	15.6	269
161	A highly ordered multi-layered hydrogenated TiO ₂ -II phase nanowire array negative electrode for 2.4 V aqueous asymmetric supercapacitors with high energy density and long cycle life. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 623-632	13	48
160	Ultrannarrow Graphene Nanoribbons toward Oxygen Reduction and Evolution Reactions. <i>Advanced Science</i> , 2018 , 5, 1801375	13.6	41
159	In situ derived Fe/N/S-codoped carbon nanotubes from ZIF-8 crystals as efficient electrocatalysts for the oxygen reduction reaction and zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20093-20099	13.99	97
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155	Poly(vinylpyrrolidone) tailored porous ceria as a carbon-free support for methanol electrooxidation. <i>Electrochimica Acta</i> , 2018 , 290, 55-62	6.7	9
154	Surface reconstruction engineering of cobalt phosphides by Ru inducement to form hollow Ru-RuPx-CoxP pre-electrocatalysts with accelerated oxygen evolution reaction. <i>Nano Energy</i> , 2018 , 53, 270-276	17.1	102
153	Scalable cellulose-sponsored functionalized carbon nanorods induced by cobalt for efficient overall water splitting. <i>Carbon</i> , 2018 , 137, 274-281	10.4	38
152	Activating rhodium phosphide-based catalysts for the pH-universal hydrogen evolution reaction. <i>Nanoscale</i> , 2018 , 10, 12407-12412	7.7	68
151	A Spatially Confined gCN-Pt Electrocatalyst with Robust Stability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21306-21312	9.5	8
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149	Synthesis of peanut-like hierarchical manganese carbonate microcrystals via magnetically driven self-assembly for high performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3923-3931	13	49

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147	Smart reconstruction of dual-carbon decorated MnO for anode with high-capacity and ultralong-life lithium storage properties. <i>Carbon</i> , 2017 , 115, 95-104	10.4	102
146	A Generic Conversion Strategy: From 2D Metal Carbides (MxCy) to M-Self-Doped Graphene toward High-Efficiency Energy Applications. <i>Advanced Functional Materials</i> , 2017 , 27, 1604904	15.6	59
145	One-pot synthesis of Pt/CeO ₂ /C catalyst for enhancing the SO ₂ electrooxidation. <i>Electrochimica Acta</i> , 2017 , 229, 253-260	6.7	22
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134	Top-Down Strategy to Synthesize Mesoporous Dual Carbon Armored MnO Nanoparticles for Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12680-12686	9.5	83
133	Engineered Graphene Materials: Synthesis and Applications for Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Materials</i> , 2017 , 29, 1601741	24	118
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19	A highly stable catalyst for PEM fuel cell based on durable titanium diboride support and polymer stabilization. <i>Applied Catalysis B: Environmental</i> , 2010 , 93, 233-240	21.8	81
18	Nano-silicon carbide supported catalysts for PEM fuel cells with high electrochemical stability and improved performance by addition of carbon. <i>Applied Catalysis B: Environmental</i> , 2010 , 100, 190-196	21.8	75
17	Improved lifetime of PEM fuel cell catalysts through polymer stabilization. <i>Electrochemistry Communications</i> , 2009 , 11, 1610-1614	5.1	44
16	A Self-Humidifying Composite Membrane with Self-Assembled Pt Nanoparticles for Polymer Electrolyte Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1868	3.9	14
15	Single Cell Performance of Catalyst Coated Membrane Based on Superthin Proton Exchange Membrane 2006 , 329		
14	Hydrogen storage in carbon nanotubes modified by microwave plasma etching and Pd decoration. <i>Carbon</i> , 2006 , 44, 762-767	10.4	118
13	Au nanoparticles self-assembled onto Nafion membranes for use as methanol-blocking barriers. <i>Electrochemistry Communications</i> , 2005 , 7, 1143-1147	5.1	43
12	Electrostatic self-assembly Pd particles on Nafion membrane surface to reduce methanol crossover. <i>Science Bulletin</i> , 2005 , 50, 377-379		
11	Synthesis of platinum/multi-wall carbon nanotube catalysts. <i>Journal of Materials Research</i> , 2004 , 19, 2279-2284	15	
10	Reduced water dissociation barrier on constructing Pt-Co/CoO _x interface for alkaline hydrogen evolution. <i>Nano Research</i> , 1	10	1
9	Vertically mounting molybdenum disulfide nanosheets on dimolybdenum carbide nanomeshes enables efficient hydrogen evolution. <i>Nano Research</i> , 1	10	5
8	Tunable Ru-Ru 2 P heterostructures with charge redistribution for efficient pH-universal hydrogen evolution. <i>Informa Materials</i> ,	23.1	7
7	Swapping Catalytic Active Sites from Cationic Ni to Anionic S in Nickel Sulfide Enables More Efficient Alkaline Hydrogen Generation. <i>Advanced Energy Materials</i> , 2103359	21.8	8
6	Mapping Hydrogen Evolution Activity Trends of Intermetallic Pt-Group Silicides. <i>ACS Catalysis</i> , 2623-2631	13.1	7
5	Nanoframes of Co ₃ O ₄ /Mo ₂ N Heterointerfaces Enable High-Performance Bifunctionality toward Both Electrocatalytic HER and OER. <i>Advanced Functional Materials</i> , 2107382	15.6	26

4	Ultralow Ru-assisted and vanadium-doped flower-like CoP/Ni ₂ P heterostructure for efficient water splitting in alkali and seawater. <i>Journal of Materials Chemistry A</i> ,	13	4
3	Epitaxially Grown Ru Clusters-Nickel Nitride Heterostructure Advances Water Electrolysis Kinetics in Alkaline and Seawater Media. <i>Energy and Environmental Materials</i> ,	13	8
2	Atomically dispersed dual Fe centers on nitrogen-doped bamboo-like carbon nanotubes for efficient oxygen reduction. <i>Nano Research</i> ,1	10	0
1	FeCoP multi-heterostructure arrays for efficient electrocatalytic water splitting. <i>Journal of Materials Chemistry A</i> ,	13	11