CITATION REPORT List of articles citing

Approaches for measuring the surface areas of metal oxide electrocatalysts for determining their intrinsic electrocatalytic activity

DOI: 10.1039/c8cs00848e Chemical Society Reviews, 2019, 48, 2518-2534.

Source: https://exaly.com/paper-pdf/73597482/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
349	Surface Composition Dependent Ligand Effect in Tuning the Activity of NickelCopper Bimetallic Electrocatalysts toward Hydrogen Evolution in Alkaline.		
348	Importance of Water Structure and CatalystElectrolyte Interface on the Design of Water Splitting Catalysts 2019, 31, 8248-8259		33
347	3D MnCo2O4@CoS nanoarrays with different morphologies as an electrocatalyst for oxygen evolution reaction. 2019 , 44, 21637-21650		25
346	Metal-Organic Framework-Derived Fe/Co-based Bifunctional Electrode for H Production through Water and Urea Electrolysis. 2019 , 12, 4810-4823		30
345	Boosting Alkaline Hydrogen Evolution Electrocatalysis over Metallic Nickel Sites through Synergistic Coupling with Vanadium Sesquioxide. 2019 , 12, 5063-5069		11
344	Facile Fabrication of Metal Oxide Based Catalytic Electrodes by AC Plasma Deposition and Electrochemical Detection of Hydrogen Peroxide. 2019 , 9, 888		9
343	Modulating the Electronic Structure of Porous Nanocubes Derived from Trimetallic Metal-Organic Frameworks to Boost Oxygen Evolution Reaction Performance. 2019 , 14, 3357-3362		7
342	Switch of the Rate-Determining Step of Water Oxidation by Spin-Selected Electron Transfer in Spinel Oxides. 2019 , 31, 8106-8111		41
341	Pore Engineering of 2D Mesoporous Nitrogen-Doped Carbon on Graphene through Block Copolymer Self-Assembly. 2019 , 6, 1901476		15
340	Paradoxical Observance of Intrinsicland Geometricl Dxygen Evolution Electrocatalysis in Phase-Tuned Cobalt Oxide/Hydroxide Nanoparticles. 2019 , 2, 7957-7968		7
339	Amorphization activated ruthenium-tellurium nanorods for efficient water plitting. 2019, 10, 5692		130
338	Mo, Co co-doped NiS bulks supported on Ni foam as an efficient electrocatalyst for overall water splitting in alkaline media. 2020 , 4, 1654-1664		10
337	Light welding Au nanoparticles assembled at water-air interface for monolayered nanoporous gold films with tunable electrocatalytic activity. 2020 , 334, 135626		3
336	Carbonaceous materials for electrochemical CO2 reduction. 2020 , 2, 100024		29
335	The interplay between the suprafacial and intrafacial mechanisms for complete methane oxidation on substituted LaCoO3 perovskite oxides. 2020 , 390, 1-11		11
334	Rational design of spinel oxides as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. 2020 , 1, 011303		10
333	High-performance solid-state hybrid supercapacitor enabled by metalorganic framework-derived multi-component hybrid electrodes of CoNC nanofibers and Co2NFexPNC micropillars. 2020, 8, 26158-26174		17

(2020-2020)

Bifunctional HMnO2 and Co3O4 Catalyst for Oxygen Electrocatalysis in Alkaline Solution. 2020, 7, 4822-4836 332 Enhanced Oxygen Evolution Activity of CoOlla0.7Sr0.3MnO3lHeterostructured Thin Film. 2020, 331 3, 7988-7996 Phosphorus-Based Electrocatalysts: Black Phosphorus, Metal Phosphides, and Phosphates. 2020, 7, 2000676 330 Developing efficient catalysts for the OER and ORR using a combination of Co, Ni, and Pt oxides 38 329 along with graphene nanoribbons and NiCo2O4. 2020, 8, 17691-17705 Engineering active sites on hierarchical transition bimetal oxides/sulfides heterostructure array 328 126 enabling robust overall water splitting. 2020, 11, 5462 A Simple Method for Synthesizing Highly Active Amorphous Iridium Oxide for Oxygen Evolution 327 3 under Acidic Conditions. 2020, 26, 17063-17068 Tuning the Electronic Structures of Multimetal Oxide Nanoplates to Realize Favorable Adsorption 326 19 Energies of Oxygenated Intermediates. 2020, Synergistic effect of metallic nickel and cobalt oxides with nitrogen-doped carbon nanospheres for 20 325 highly efficient oxygen evolution. 2020, 41, 1782-1789 Advances and Challenges of Fe-MOFs Based Materials as Electrocatalysts for Water Splitting. 2020, 324 19 20, 100692 Layered double hydroxides materials for photo(electro-) catalytic applications. 2020, 397, 125407 323 33 Ir-skinned Ir-Cu Nanoparticles with Enhanced Activity for Oxygen Reduction Reaction. 2020, 36, 467-472 322 4 Performance enhancement of oxygen evolution reaction through incorporating bimetallic 321 15 electrocatalysts in two-dimensional metal Brganic frameworks. 2020, 10, 3897-3903 Covalency competition dominates the water oxidation structure activity relationship on spinel 320 110 oxides. 2020, 3, 554-563 Electroactive P-Ani/core-shell/TiO2/TiO2-WO3 employed surface engineering of Ni-P electrodes 319 for alkaline hydrogen evolution reaction. 2020, 87, 198-212 318 Transition-metal-based electrocatalysts for hydrazine-assisted hydrogen production. 2020, 7, 100083 7 Improving the Antioxidation Capability of the Ni Catalyst by Carbon Shell Coating for Alkaline 16 317 Hydrogen Oxidation Reaction. 2020, 12, 31575-31581 Cation Exchange Strategy to Single-Atom Noble-Metal Doped CuO Nanowire Arrays with Ultralow 316 45 Overpotential for HO Splitting. 2020, 20, 5482-5489 Hydrogen evolution under large-current-density based on fluorine-doped cobalt-iron phosphides. 315 57 **2020**, 399, 125831

314	A Comparative Study of the Catalytic Performance of Pt-Based Bi and Trimetallic Nanocatalysts Towards Methanol, Ethanol, Ethylene Glycol, and Glycerol Electro-Oxidation. 2020 , 20, 6274-6285		1
313	Prudent electrochemical pretreatment to promote the OER by catalytically inert Iron incorporated metallic Ni nanowiresIsynthesized via the Bon-classicalIgrowth mechanism. 2020 , 2, 1927-1938		4
312	A review on fundamentals for designing oxygen evolution electrocatalysts. <i>Chemical Society Reviews</i> , 2020 , 49, 2196-2214	58.5	591
311	Effect of the Size and Shape on the Electrocatalytic Activity of CoO Nanoparticles in the Oxygen Evolution Reaction. 2020 , 59, 10013-10024		14
310	Hierarchical trimetallic sulfide FeCo2S4NiCo2S4 nanosheet arrays supported on a Ti mesh: An efficient 3D bifunctional electrocatalyst for full water splitting. 2020 , 340, 135957		29
309	NiAg 3D porous nanoclusters with epitaxial interfaces exhibiting Pt like activity towards hydrogen evolution in alkaline medium. 2020 , 12, 8432-8442		10
308	Manipulation of Neighboring Palladium and Mercury Atoms for Efficient *OH Transformation in Anodic Alcohol Oxidation and Cathodic Oxygen Reduction Reactions. 2020 , 12, 12677-12685		7
307	Construction of Defect-Rich RhCu Nanotubes with Highly Active Rh3Cu1 Alloy Phase for Overall Water Splitting in All pH Values. 2020 , 10, 1903038		53
306	Comprehensively Probing the Contribution of Site Activity and Population of Active Sites toward Heterogeneous Electrocatalysis. 2020 , 12, 1926-1933		4
305	Assessment of electrocatalytic activity through the lens of three surface area normalization techniques. 2020 , 8, 3154-3159		31
304	The Determination of Electrochemical Active Surface Area and Specific Capacity Revisited for the System MnOx as an Oxygen Evolution Catalyst. 2020 , 234, 979-994		51
303	An iodine-treated metal-organic framework with enhanced catalytic activity for oxygen reduction reaction in alkaline electrolyte. 2020 , 337, 135825		8
302	Bulk and Surface Properties Regulation of Single/Double Perovskites to Realize Enhanced Oxygen Evolution Reactivity. 2020 , 13, 3045-3052		19
301	Surface Composition Dependent Ligand Effect in Tuning the Activity of Nickel-Copper Bimetallic Electrocatalysts toward Hydrogen Evolution in Alkaline. 2020 , 142, 7765-7775		99
300	The coupling of experiments with density functional theory in the studies of the electrochemical hydrogen evolution reaction. 2020 , 8, 8783-8812		15
299	Tuning morphology, composition and oxygen reduction reaction (ORR) catalytic performance of manganese oxide particles fabricated by Fadiation induced synthesis. 2021 , 583, 71-79		10
298	Development Trends on Nickel-Based Electrocatalysts for Direct Hydrazine Fuel Cells. 2021 , 13, 81-110		15
297	Plasma enhanced atomic-layer-deposited nickel oxide on Co3O4 arrays as highly active electrocatalyst for oxygen evolution reaction. 2021 , 481, 228925		12

(2021-2021)

296	CarbonBased transition metal sulfides/selenides nanostructures for electrocatalytic water splitting. 2021 , 852, 156810	21
295	Recent progress, challenges, and prospects in emerging group-VIA Xenes: synthesis, properties and novel applications. 2021 , 13, 510-552	9
294	Honeycomb like copper-cobalt nanostructures and their synergy with carbon supports for electrooxidation of carbinol. 2021 , 45, 6104-6114	1
293	Porous rod-like Ni2P/Ni assemblies for enhanced urea electrooxidation. 2021 , 14, 1405-1412	30
292	Recent advances of metal-organic frameworks and their composites toward bxygen evolution electrocatalysis. 2021 , 19, 100597	16
291	In situ construction of N-doped amorphous CoFe selenites toward efficient electrocatalytic water oxidation. 2021 , 483, 229196	9
2 90	Defect-Engineered 3D Cross-Network Co3O4Nx Nanostructure for High-Performance Solid-State Asymmetric Supercapacitors. 2021 , 4, 888-898	7
289	Real-time imaging of surface chemical reactions by electrochemical photothermal reflectance microscopy. 2020 , 12, 1930-1936	2
288	Carbon supported nickel phosphide as efficient electrocatalyst for hydrogen and oxygen evolution reactions. 2021 , 46, 622-632	14
287	Reconstructed Water Oxidation Electrocatalysts: The Impact of Surface Dynamics on Intrinsic Activities. 2021 , 31, 2008190	64
286	Polypyrrole nanowires as a cathode microporous layer for direct methanol fuel cell to enhance oxygen transport. 2021 , 45, 3375-3384	3
285	Recent progresses of micro-nanostructured transition metal compound-based electrocatalysts for energy conversion technologies. 2021 , 64, 1-26	17
284	Fibrous-Structured Freestanding Electrodes for Oxygen Electrocatalysis. 2021 , 17, e1903760	16
283	Nanoporous multimetallic Ir alloys as efficient and stable electrocatalysts for acidic oxygen evolution reactions. 2021 , 393, 303-312	4
282	Electrochemically deposited iridium-oxide: Estimation of intrinsic activity and stability in oxygen evolution in acid solution. 2021 , 881, 114944	4
281	Confinement of Pt NPs by hollow-porous-carbon-spheres pore regulation with promoted activity and durability in the hydrogen evolution reaction. 2021 , 13, 18273-18280	2
280	Nitrogen-Doped Mixed-Phase Cobalt Nanocatalyst Derived from a Trinuclear Mixed-Valence Cobalt(III)/Cobalt(II) Complex for High-Performance Oxygen Evolution Reaction. 2021 , 60, 2333-2346	5
279	Recent advances in doped ruthenium oxides as high-efficiency electrocatalysts for the oxygen evolution reaction. 2021 , 9, 15506-15521	15

278	Electrochemical behavior of a Ni3N OER precatalyst in Fe-purified alkaline media: the impact of self-oxidation and Fe incorporation. 2021 , 2, 2299-2309	2
277	Nickel pyrophosphate combined with graphene nanoribbon used as efficient catalyst for OER. 2021 , 9, 11255-11267	11
276	Simultaneous phase control and carbon intercalation of MoS2 for electrochemical hydrogen evolution catalysis.	
275	Insights into the electronic structure of Fe penta-coordinated complexes. Spectroscopic examination and electrochemical analysis for the oxygen reduction and oxygen evolution reactions.	4
274	Single-layer CoFe hydroxides for efficient electrocatalytic oxygen evolution. 2021, 57, 7653-7656	3
273	Layered double hydroxide-based electrocatalysts for the oxygen evolution reaction: identification and tailoring of active sites, and superaerophobic nanoarray electrode assembly. <i>Chemical Society 58.5 Reviews</i> , 2021 , 50, 8790-8817	59
272	Maximizing utilization of carbon fibers by bimetallic-catalytic etching and electrochemical modification for difunctional aqueous supercapacitors. 2021 , 5, 4434-4443	0
271	Defective two-dimensional layered heterometallic phosphonates as highly efficient oxygen evolution electrocatalysts.	1
270	Electrochemical oxidation of biomass derived 5-hydroxymethylfurfural (HMF): pathway, mechanism, catalysts and coupling reactions. 2021 , 23, 4228-4254	47
269	Perovskite Oxide Based Electrodes for the Oxygen Reduction and Evolution Reactions: The Underlying Mechanism. 2021 , 11, 3094-3114	35
268	Electrochemically active surface area controls HER activity for FexNi100№ films in alkaline electrolyte. 2021 , 394, 104-112	12
267	Effects of CeO2 pre-calcined at different temperatures on the performance of Pt/CeO2-C electrocatalyst for methanol oxidation reaction. 2021 , 28, 1224-1232	1
266	Progress on X-ray Absorption Spectroscopy for the Characterization of Perovskite-Type Oxide Electrocatalysts. 2021 , 35, 5716-5737	13
265	An efficient and stable MnCo@NiS catalyst for oxygen evolution reaction constructed by a step-by-step electrodeposition way. 2021 , 489, 229525	3
264	Pt-IrOx catalysts immobilized on defective carbon for efficient reversal tolerant anode in proton exchange membrane fuel cells. 2021 , 395, 404-411	3
263	Homogeneously dispersed cobalt/iron electrocatalysts with oxygen vacancies and favorable hydrophilicity for efficient oxygen evolution reaction. 2021 , 46, 11652-11663	5
262	Recent Development of Oxygen Evolution Electrocatalysts in Acidic Environment. 2021 , 33, e2006328	85
261	Efficient Oxygen Evolution Electrocatalyst by Incorporation of Nickel into Nanoscale Dicobalt Boride. 2021 , 13, 1772-1780	2

2 60	Seven steps to reliable cyclic voltammetry measurements for the determination of double layer capacitance.	18
259	Rejuvenating the Geometric Electrocatalytic OER Performance of Crystalline Co O by Microstructure Engineering with Sulfate. 2021 , 16, 988-998	2
258	The development of cobalt oxide nanoparticles based electrode to elucidate the rapid sensing of nitrophenol. 2021 , 265, 114994	2
257	High-pressure microwave-assisted synthesis of WSx/Ni9S8/NF hetero-catalyst for efficient oxygen evolution reaction. 2021 , 40, 1048-1055	7
256	Facilitating the Deprotonation of OH to O through Fe -Induced States in Perovskite LaNiO Enables a Fast Oxygen Evolution Reaction. 2021 , 17, e2006930	10
255	Revealing the Synergy of Cation and Anion Vacancies on Improving Overall Water Splitting Kinetics. 2021 , 31, 2010718	19
254	A high-performance oxygen evolution electrode of nanoporous Ni-based solid solution by simulating natural meteorites. 2021 , 410, 128340	10
253	Single Platinum Atoms Immobilized on Monolayer Tungsten Trioxide Nanosheets as an Efficient Electrocatalyst for Hydrogen Evolution Reaction. 2021 , 31, 2009770	10
252	Assessment of active areas for the oxygen evolution reaction on an amorphous iridium oxide surface. 2021 , 396, 14-22	10
251	Critical Review of Platinum Group Metal-Free Materials for Water Electrolysis: Transition from the Laboratory to the Market: Earth-abundant borides and phosphides as catalysts for sustainable hydrogen production. 2021 , 65, 207-226	5
250	Electrocatalysts by Electrodeposition: Recent Advances, Synthesis Methods, and Applications in Energy Conversion. 2021 , 31, 2101313	17
249	Platinum-Based Electrocatalysts for Direct Alcohol Fuel Cells: Enhanced Performances toward Alcohol Oxidation Reactions. 2021 , 86, 574-586	4
248	Fe(Co)OOH Dynamically Stable Interface Based on Self-Sacrificial Reconstruction for Long-Term Electrochemical Water Oxidation. 2021 , 13, 17450-17458	7
247	In Situ Reconstruction of V-Doped Ni2P Pre-Catalysts with Tunable Electronic Structures for Water Oxidation. 2021 , 31, 2100614	42
246	Partially reduced NiO by cellulose as a highly active catalyst for oxygen evolution reaction: synergy between in situ generated Ni3+ and lattice oxygen. 2021 , 45, 15544-15556	0
245	Constructing Ultrathin W-Doped NiFe Nanosheets via Facile Electrosynthesis as Bifunctional Electrocatalysts for Efficient Water Splitting. 2021 , 13, 20070-20080	12
244	L-cysteine-functionalized CuPt: A chiral electrode for the asymmetric electroreduction of aromatic ketones. 2021 , 375, 137926	3
243	Ni-doped carbon nanotubes fabricated by pulsed laser ablation in liquid as efficient electrocatalysts for oxygen evolution reaction. 2021 , 547, 149197	3

242	Benchmarking of oxygen evolution catalysts on porous nickel supports. 2021 , 5, 1281-1300	23
241	Engineering High-Spin State Cobalt Cations in Spinel Zinc Cobalt Oxide for Spin Channel Propagation and Active Site Enhancement in Water Oxidation. 2021 , 133, 14657-14665	2
240	Engineering High-Spin State Cobalt Cations in Spinel Zinc Cobalt Oxide for Spin Channel Propagation and Active Site Enhancement in Water Oxidation. 2021 , 60, 14536-14544	27
239	Thermally templated cobalt oxide nanobubbles on crumpled graphene sheets: A promising non-precious metal catalysts for acidic oxygen evolution. 2021 , 382, 138277	2
238	Ag and Au nanoparticles decorated on synthetic clay functionalized multi-walled carbon nanotube for oxygen reduction reaction. 1	2
237	Electrochemical performance of spindle-like Fe2Co-MOF and derived magnetic yolk-shell CoFe2O4 microspheres for supercapacitor applications. 2021 , 25, 2189-2200	3
236	A chemical etching strategy to improve and stabilize RuO2-based nanoassemblies for acidic oxygen evolution. 2021 , 84, 105909	15
235	An Extraordinary OER Electrocatalyst Based on the CoMo Synergistic 2D Pure Inorganic Porous Framework. 2021 , 2021, 2606-2610	4
234	Spin pinning effect to reconstructed oxyhydroxide layer on ferromagnetic oxides for enhanced water oxidation. 2021 , 12, 3634	31
233	Tuning of lattice oxygen reactivity and scaling relation to construct better oxygen evolution electrocatalyst. 2021 , 12, 3992	27
232	Stabilized PbO2 electrode prepared via crystal facet controlling for outstanding degradation of MePB. 2021 , 890, 115246	5
231	Surface plasmons activate the oxygen evolution reaction over nickel hydroxide electrocatalysts. 2021 , 46, 21433-21441	3
230	Recent advances in nanostructured electrocatalysts for hydrogen evolution reaction. 2021 , 40, 3375-3405	18
229	Reversed Charge Transfer and Enhanced Hydrogen Spillover in Platinum Nanoclusters Anchored on Titanium Oxide with Rich Oxygen Vacancies Boost Hydrogen Evolution Reaction. 2021 , 133, 16758	2
228	Toward Flexible Zinc-Air Batteries with Self-Supported Air Electrodes. 2021 , 17, e2006773	11
227	Alkaline Water Splitting Enhancement by MOF-Derived Fe-Co-Oxide/Co@NC-mNS Heterostructure: Boosting OER and HER through Defect Engineering and In Situ Oxidation. 2021 , 17, e2101312	33
226	Development of Bimetallic PdNi Electrocatalysts toward Mitigation of Catalyst Poisoning in Direct Borohydride Fuel Cells. 2021 , 11, 8417-8430	8
225	Reversed Charge Transfer and Enhanced Hydrogen Spillover in Platinum Nanoclusters Anchored on Titanium Oxide with Rich Oxygen Vacancies Boost Hydrogen Evolution Reaction. 2021 , 60, 16622-16627	37

224	Pt-Catalyzed D-Glucose Oxidation Reactions for Glucose Fuel Cells. 2021 , 168, 064511	3
223	Carbon nanoparticle coated by silicon dioxide supported platinum nanoparticles towards oxygen reduction reaction. 2021 , 139, 111268	1
222	Revealing Active Function of Multicomponent Electrocatalysts from In Situ Nickel Redox for Oxygen Evolution. 2021 , 125, 16420-16427	2
221	Effects of catalyst mass loading on electrocatalytic activity: An example of oxygen evolution reaction. 2021 , 1, 448-452	5
220	Unravelling the roles of alkali-metal cations for the enhanced oxygen evolution reaction in alkaline media. 2021 , 288, 119981	15
219	Iridium-containing water-oxidation catalysts in acidic electrolyte. 2021 , 42, 1054-1077	23
218	Tuning the Intrinsic Activity and Electrochemical Surface Area of MoS via Tiny Zn Doping: Toward an Efficient Hydrogen Evolution Reaction (HER) Catalyst. 2021 , 27, 15992-15999	6
217	Electrochemical Active Surface Area Determination of Iridium-Based Mixed Oxides by Mercury Underpotential Deposition. 2021 , 8, 3519-3524	O
216	Structure optimization and electronic modulation of sulfur-incorporated cobalt nanocages for enhanced oxygen evolution. 2021 , 46, 28537-28544	1
215	Quantitative kinetic analysis on oxygen reduction reaction: A perspective. 2021 , 3, 313-318	12
214	The Significance of Properly Reporting Turnover Frequency in Electrocatalysis Research. 2021 , 133, 23235	0
213	Prudent Practices in ex situ Durability Analysis Using Cyclic Voltammetry for Platinum-based Electrocatalysts. 2021 , 16, 3311-3325	1
212	Interfacial recharging behavior of mixed Co, Mn-based perovskite oxides. 2021 , 139257	1
211	Using a combination of Co, Mo, and Pt oxides along with graphene nanoribbon and MoSe2 as efficient catalysts for OER and HER. 2021 , 391, 138907	7
210	Efficient Aqueous Electroreduction of CO2 to Formate at Low Overpotential on Indium Tin Oxide Nanocrystals.	4
209	Sacrificial Cu Layer Mediated the Formation of an Active and Stable Supported Iridium Oxygen Evolution Reaction Electrocatalyst. 2021 , 11, 12510-12519	6
208	NiCo-Based Electrocatalysts for the Alkaline Oxygen Evolution Reaction: A Review. 12485-12509	39
207	One-step carbonization of ZIF-8 in Mn-containing ambience to prepare Mn, N co-doped porous carbon as efficient oxygen reduction reaction electrocatalyst. 2021 ,	3

The Significance of Properly Reporting Turnover Frequency in Electrocatalysis Research. 2021, 60, 23051-230634

205	The effect of calcination temperature on the electrocatalytic activity of NiCoIr-oxide and NiCoRu-oxide anodes in the oxygen evolution reaction in alkaline medium. 2021 , 119, 106703	2
204	Structural Transformation of Heterogeneous Materials for Electrocatalytic Oxygen Evolution Reaction. 2021 , 121, 13174-13212	51
203	0D/1D heterostructure for efficient electrocatalytic CO2-to-C1 conversion by ultra-small cluster-based multi-metallic sulfide nanoparticles and MWCNTs. 2021 , 422, 130045	4
202	Surface reconstruction on silver nanoparticles decorated trimetallic hydroxide nanosheets to generate highly active oxygen-deficient (oxy)hydroxide layer for high-efficient water oxidation. 2021 , 425, 131662	8
201	Ultrahigh activity of molybdenum/vanadium-doped Ni-Co phosphides nanoneedles based on ion-exchange for hydrogen evolution at large current density. 2021 , 604, 141-149	5
200	Motivating high-valence Nb doping by fast molten salt method for NiFe hydroxides toward efficient oxygen evolution reaction. 2022 , 427, 131643	13
199	Confining platinum clusters in ZIF-8-derived porous N-doped carbon arrays for high-performance hydrogen evolution reaction. 2022 , 429, 132259	3
198	Role of transition metal oxides in g-C3N4-based heterojunctions for photocatalysis and supercapacitors. 2022 , 64, 214-235	15
197	The rational design of Ni3S2 nanosheetsAg nanorods on Ni foam with improved hydrogen adsorption sites for the hydrogen evolution reaction.	2
196	Electrocatalysis using nanomaterials. 2021 , 18, 343-420	O
195	Transition metal-based bimetallic MOFs and MOF-derived catalysts for electrochemical oxygen evolution reaction. 2021 , 14, 1897-1927	105
194	Two-Dimensional Metal-Organic Framework Nanosheet Supported Noble Metal Nanocrystals for High-Efficiency Water Oxidation. 2021 , 8, 2002034	7
193	Active Phase on SrCo Fe O (0 III).5) Perovskite for Water Oxidation: Reconstructed Surface versus Remaining Bulk. 2021 , 1, 108-115	19
192	Hierarchically Structured Two-Dimensional Bimetallic CoNi-Hexaaminobenzene Coordination Polymers Derived from Co(OH) for Enhanced Oxygen Evolution Catalysis. 2020 , 16, e1907043	20
191	Rh2S3/N-Doped Carbon Hybrids as pH-Universal Bifunctional Electrocatalysts for Energy-Saving Hydrogen Evolution. 2020 , 4, 2000208	21
190	Common Pitfalls of Reporting Electrocatalysts for Water Splitting. 2020 , 36, 360-365	7
189	The possible implications of magnetic field effect on understanding the reactant of water splitting. 2022 , 43, 148-157	6

(2021-2020)

188	Superior Fe x N electrocatalyst derived from 1,1?-diacetylferrocene for oxygen reduction reaction in alkaline and acidic media. 2020 , 9, 843-852	3
187	Atmosphere-sensitive photoluminescence of Co Fe O metal oxide nanoparticles 2021 , 11, 33905-33915	1
186	Self-Adhesive Flexible Electrocatalytic Patches of Stratified Oxide Heterojunctions with Engineered Band Alignments.	O
185	Contribution of the Sub-Surface to Electrocatalytic Activity in Atomically Precise La Sr MnO Heterostructures. 2021 , 17, e2103632	O
184	Online ElectrochemistryMass Spectrometry Evaluation of the Acidic Oxygen Evolution Reaction at Supported Catalysts. 2021 , 11, 12745-12753	4
183	Fabricating Ag/PW12/Zr-mTiO2 Composite via Doping and Interface Engineering: An Efficient Catalyst with Bifunctionality in Photo- and Electro-Driven Nitrogen Reduction Reactions. 2100307	1
182	A comprehensive review on the recent developments in transition metal-based electrocatalysts for oxygen evolution reaction. 2021 , 6, 100184	8
181	Polyphosphates as an effective vehicle for delivery of bioavailable nanoparticulate iron(III). 2021 , 373, 131477	1
180	Macroporous microspheres consisting of thickness-controlled bamboo-like CNTs and flower-like Co3O4 nanoparticles as highly efficient bifunctional oxygen electrocatalysts for ZnBir batteries.	1
179	Epitaxial oxide thin films for oxygen electrocatalysis: A tutorial review. 2022 , 40, 010801	3
178	Efficient OER nanocomposite electrocatalysts based on Ni and/or Co supported on MoSe2 nanoribbons and MoS2 nanosheets. 2022 , 9, 100206	3
177	Boosting surface reconstruction for OER: A combined effect of heteroatom incorporation and anion etching in cobalt silicate precatalyst.	O
176	Low loaded MoS2/Carbon cloth as a highly efficient electrocatalyst for hydrogen evolution reaction. 2021 , 47, 1579-1579	0
175	Structural Insights into Multi-Metal Spinel Oxide Nanoparticles for Boosting Oxygen Reduction Electrocatalysis. 2021 , e2107868	4
174	Boosting Oxygen Reduction Activity of Manganese Oxide Through Strain Effect Caused By Ion Insertion. 2021 , e2105201	4
173	Well-Dispersed Nafion Array Prepared by the Freeze-Drying Method to Effectively Improve the Performance of Proton Exchange Membrane Fuel Cells.	O
172	Influence of Surface Composition of AgSn Films on the Selectivity and Electrokinetics of CO2 Reduction in the Presence of Protic Organic [DBUH]+ Cations.	2
171	Strain in a platinum plate induced by an ultrahigh energy laser boosts the hydrogen evolution reaction 2021 , 11, 39087-39094	

170	CoFeP nanocube-arrays based on Prussian blue analogues for accelerated oxygen evolution electrocatalysis. 2022 , 520, 230884	4
169	Enhancement of oxygen evolution reaction by X-doped (XI Se, S, P) holey graphitic carbon shell encapsulating NiCoFe nanoparticles: a combined experimental and theoretical study. 2022 , 23, 100706	O
168	Coupling nitrogen/oxygen self-doped biomass porous carbon cathode catalyst with CuFeO2/biochar particle catalyst for the heterogeneous visible-light driven photo-electro-Fenton degradation of tetracycline. 2022 , 305, 121024	3
167	Pt NPs-loaded siloxene nanosheets for hydrogen co-evolutions from Zn-H2O fuel cells-powered water-splitting. 2022 , 304, 121008	4
166	Highly Active and Durable Single-Atom Tungsten-Doped NiS Se Nanosheet@NiS Se Nanorod Heterostructures for Water Splitting 2022 , e2107053	18
165	Controlling the Interfacial Charge Polarization of MOF-Derived 0D-2D vdW Architectures as a Unique Strategy for Bifunctional Oxygen Electrocatalysis 2022 ,	8
164	Core-shell and heterostructured silver-nickel nanocatalysts fabricated by Fadiation induced synthesis for oxygen reduction in alkaline media 2022 ,	О
163	Bicontinuous Nanoporous Nitrogen/Carbon-Codoped FeCoNiMg Alloy as a High-Performance Electrode for the Oxygen Evolution Reaction 2022 , 14, 784-793	2
162	Coordination modulation of iridium single-atom catalyst maximizing water oxidation activity 2022 , 13, 24	20
161	Electrocatalytic activation of organic chlorides via direct and indirect electron transfer using atomic vacancy control of palladium-based catalyst. 2022 , 3, 100713	1
160	Development of an Efficient Voltammetric Sensor for the Monitoring of 4-Aminophenol Based on Flexible Laser Induced Graphene Electrodes Modified with MWCNT-PANI 2022 , 22,	2
159	A quick guide to the assessment of key electrochemical performance indicators for the oxygen reduction reaction: A comprehensive review. 2022 , 47, 7113-7138	3
158	Morphology effects on electrocatalysis of anodic water splitting on nickel (II) oxide. 2022, 333, 111734	2
157	Electrochemical Surface Area Quantification, CO Reduction Performance, and Stability Studies of Unsupported Three-Dimensional Au Aerogels versus Carbon-Supported Au Nanoparticles 2022 , 2, 278-292	4
156	Ball-milled biochar for efficient neutral electrosynthesis of hydrogen peroxide. 2022 , 434, 134788	1
155	Porous metal oxide electrocatalytic nanomaterials for energy conversion: Oxygen defects and selection techniques. 2022 , 457, 214389	3
154	Boosting oxygen evolution by nickel nitrate hydroxide with abundant grain boundaries via segregated high-valence molybdenum 2021 , 613, 224-233	O
153	Methanol electro-oxidation to formate on iron-substituted lanthanum cobaltite perovskite oxides. 2022 ,	1

152	The regulation mechanism of cationic substitution in morphology-controlled oxy-spinel for oxygen evolution reaction. 2022 , 407, 221-221	О
151	Modulating metalBrganic frameworks for catalyzing acidic oxygen evolution for proton exchange membrane water electrolysis. 2021 , 1, 460-481	12
150	NickelBalen as a model for bifunctional OER/UOR electrocatalysts: pyrolysis temperatureBlectrochemical activity interconnection.	2
149	Potentiometric redox measurements in the environment: a novel perspective on method powers and limitations. 2022 , 158, 327-343	1
148	Bimetallic Multi-Level Layered Co-NiOOH/Ni S @NF Nanosheet for Hydrogen Evolution Reaction in Alkaline Medium 2022 , e2106904	5
147	Enhancing catalytic activity of NdFeO3 perovskite by tuning A-site cation deficiency for oxygen evolution reaction. 2022 ,	O
146	Single-site Pt-doped RuO hollow nanospheres with interstitial C for high-performance acidic overall water splitting 2022 , 8, eabl9271	14
145	A new MnxOy/carbon nanorods derived from bimetallic Zn/Mn metalBrganic framework as an efficient oxygen reduction reaction electrocatalyst for alkaline Zn-Air batteries. 1	Ο
144	Ligand-Tuned Energetics for the Selective Synthesis of NiP and NiP Possessing Bifunctional Electrocatalytic Activity toward Hydrogen Evolution and Hydrazine Oxidation Reactions 2022 ,	1
143	Exceptionally active and stable RuO2 with interstitial carbon for water oxidation in acid. 2022,	3
142	Highly Efficient Nanoflower-like Bifunctional Electrocatalyst Co-W-B-P/CF for Overall Water Splitting.	1
141	Lattice-Matching Formed Mesoporous Transition Metal Oxide Heterostructures Advance Water Splitting by Active Feወជu Bridges. 2200067	16
140	First-Row Transition Metal Antimonates for the Oxygen Reduction Reaction 2022,	2
139	A Defect Engineered Electrocatalyst that Promotes High-Efficiency Urea Synthesis under Ambient Conditions 2022 ,	12
138	Efficient Alkaline Water/Seawater Hydrogen Evolution by a Nanorod-nanoparticle-structured Ni-MoN Catalyst with Fast Water-dissociation Kinetics 2022 , e2201774	16
137	Reconstructing Cu Nanoparticle Supported on Vertical Graphene Surfaces via Electrochemical Treatment to Tune the Selectivity of CO2 Reduction toward Valuable Products. 4792-4805	3
136	Enhanced photoelectrochemical water splitting performance of vertically aligned Bi2O3 nanosheet arrays derived from chemical bath deposition method by controlling chemical bath temperature and complexing agent concentration. 2022 , 30, 101819	
135	In-situ electrochemical and operando Raman techniques to investigate the effect of porosity in different carbon electrodes in organic electrolyte supercapacitors. 2022 , 50, 104219	1

134	Highly ordered nanoarrays catalysts embedded in carbon nanotubes as highly efficient and robust air electrode for flexible solid-state rechargeable zinc-air batteries 2022 , 616, 679-690	1
133	Electrochemical reforming of ethanol with acetate Co-Production on nickel cobalt selenide nanoparticles. 2022 , 440, 135817	3
132	A nanoflower-like polypyrrole-based cobalt-nickel sulfide hybrid heterostructures with electrons migration to boost overall water splitting 2022 , 618, 1-10	0
131	Atomic ruthenium coordinated with chlorine and nitrogen as efficient and multifunctional electrocatalyst for overall water splitting and rechargeable zinc-air battery. 2022 , 441, 136078	3
130	Lattice site-dependent metal leaching in perovskites toward a honeycomb-like water oxidation catalyst. 2021 , 7, eabk1788	6
129	Hexagonal perovskite Sr(CoFe)O as an efficient electrocatalyst towards the oxygen evolution reaction 2022 ,	3
128	Carbon nanofiber-based catalysts derived from polyacrylonitrile for efficient oxygen reduction in alkaline and neutral Zn-air batteries.	0
127	Highly Dispersed Pt3Co Nanocatalysts Embedded in Porous Hollow Carbon Spheres with Efficient Electrocatalytic O2-Reduction and H2-Evolution Activities.	O
126	Crystal Facet Controlled Stable PbO2 Electrode for Efficient Degradation of Tetracycline. 2022 , 116330	0
125	Electrochemistry in Magnetic Fields 2022,	2
125	Electrochemistry in Magnetic Fields 2022, Identification of Interface Structure for a Topological CoS Single Crystal in Oxygen Evolution Reaction with High Intrinsic Reactivity 2022,	1
Ĭ	Identification of Interface Structure for a Topological CoS Single Crystal in Oxygen Evolution	
124	Identification of Interface Structure for a Topological CoS Single Crystal in Oxygen Evolution Reaction with High Intrinsic Reactivity 2022, Ethanol Selective Electrooxidation Following the C2 Pathway with Superior Activity and Stability at	
124	Identification of Interface Structure for a Topological CoS Single Crystal in Oxygen Evolution Reaction with High Intrinsic Reactivity 2022, Ethanol Selective Electrooxidation Following the C2 Pathway with Superior Activity and Stability at Rhbi Alloy Surface in Alkaline Media.	
124 123 122	Identification of Interface Structure for a Topological CoS Single Crystal in Oxygen Evolution Reaction with High Intrinsic Reactivity 2022, Ethanol Selective Electrooxidation Following the C2 Pathway with Superior Activity and Stability at Rhbi Alloy Surface in Alkaline Media. Electrochemistry in Magnetic Fields. Role of Noble- and Base-Metal Speciation and Surface Segregation in Ni2MRhxP Nanocrystals on	1
124 123 122	Identification of Interface Structure for a Topological CoS Single Crystal in Oxygen Evolution Reaction with High Intrinsic Reactivity 2022, Ethanol Selective Electrooxidation Following the C2 Pathway with Superior Activity and Stability at Rhbi Alloy Surface in Alkaline Media. Electrochemistry in Magnetic Fields. Role of Noble- and Base-Metal Speciation and Surface Segregation in Ni2\(\text{QRhxP}\) Nanocrystals on Electrocatalytic Water Splitting Reactions in Alkaline Media. Design of Au Surface-doped PtFe Catalyst to Modulate Oxygen Binding Energy for Highly Efficient	1
124 123 122 121	Identification of Interface Structure for a Topological CoS Single Crystal in Oxygen Evolution Reaction with High Intrinsic Reactivity 2022, Ethanol Selective Electrooxidation Following the C2 Pathway with Superior Activity and Stability at Rhbi Alloy Surface in Alkaline Media. Electrochemistry in Magnetic Fields. Role of Noble- and Base-Metal Speciation and Surface Segregation in Ni2NRhxP Nanocrystals on Electrocatalytic Water Splitting Reactions in Alkaline Media. Design of Au Surface-doped PtFe Catalyst to Modulate Oxygen Binding Energy for Highly Efficient Oxygen Reduction Reaction. 2022, 7, Surface cavity effect on C2H4 formation from electrochemical reduction of CO2 as studied using	0

116	Confined PdMo Ultrafine Nanowires in CNTs for Superior Oxygen Reduction Catalysis. 2200849	1
115	Challenges in determining the electrochemically active surface area of Ni-oxides in the oxygen evolution reaction. 2022 , 116479	4
114	Configuration-Dependent Bimetallic Metal-Organic Frameworks Nanorods for Efficient Electrocatalytic Water Oxidation.	
113	Intermetallic PdCd core promoting CO tolerance of Pd shell for electrocatalytic formic acid oxidation.	
112	Recent Status and Challenges in Multifunctional Electrocatalysis Based on 2D MXenes.	2
111	UV-crosslinkable anthracene-based ionomer derived gas Expressway[for anion exchange membrane fuel cells.	1
110	Size Effects of Electrocatalysts: More Than a Variation of Surface Area.	5
109	A p-n WO 3 / SnSe 2 Heterojunction for Efficient Photo-assisted Electrocatalysis of the Oxygen Evolution Reaction.	O
108	Atomic Co Embedded in a Covalent Triazine Framework for Efficient Oxygen Evolution Catalysis.	1
107	Growth of ultrathin nanosheets of nickel iron layered double hydroxide for the oxygen evolution reaction. 2022 ,	1
106	High-Alkaline Water-Splitting Activity of Mesoporous 3D Heterostructures: An Amorphous-Shell@Crystalline-Core Nano-Assembly of Co-Ni-Phosphate Ultrathin-Nanosheets and V- Doped Cobalt-Nitride Nanowires. 2201311	6
105	Gram-Scale Synthesis of Carbon-Supported Sub-5 nm PtNi Nanocrystals for Efficient Oxygen Reduction. 2022 , 12, 1078	
104	An electrochemical modification strategy to fabricate NiFeCuPt polymetallic carbon matrices on nickel foam as stable electrocatalysts for water splitting.	O
103	Role of Nanoscale Inhomogeneities in Co2FeO4 Catalysts during the Oxygen Evolution Reaction. 2022 , 144, 12007-12019	1
102	MOFs????Fe-CoP@C???????. 2022 ,	
101	Alloy-Driven Efficient Electrocatalytic Oxidation of Biomass-Derived 5-Hydroxymethylfurfural Towards 2,5-Furandicarboxylic Acid: A Review.	O
100	Anion exchange membrane water electrolysis from catalyst design to the membrane electrode assembly.	3
99	Stable Co/N-Doped Carbon Nanotubes as Catalysts for Oxygen Reduction.	O

98	Multiscale Engineering of Nonprecious Metal Electrocatalyst for Realizing Ultrastable Seawater Splitting in Weakly Alkaline Solution. 2202387	3
97	Engineering Nonprecious Metal Oxides Electrocatalysts for Two-Electron Water Oxidation to H 2 O 2. 2201466	2
96	In-situ transformed trimetallic metal-organic frameworks as an efficient pre-catalyst for electrocatalytic oxygen evolution.	О
95	Phosphorus-doping promotes the electrochemical etching of metals to nanoporous electrodes for efficient and durable overall water splitting. 2022 , 542, 231774	O
94	Atomically-resolved structural changes of ceramic supported nanoparticulate oxygen evolution reaction Ir catalyst. 2022 , 426, 140800	1
93	Revealing bulk reaction kinetics of battery-like electrode for pseudocapacitor with ultra-high rate performance. 2022 , 138224	O
92	Intrinsic Contribution of Mass Transport within Nanoscale Channels of Nanoporous Gold for CO 2 Electrochemical Reduction. 2022 , 9, 2200895	О
91	Efficient Synthesis of Fe/N-Doped Carbon Nanotube as Highly Active Catalysts for Oxygen Reduction Reaction in Alkaline Media. 2022 , 38, 9310-9320	O
90	Simple immunosensor for ultrasensitive electrochemical determination of biomarker of the bone metabolism in human serum. 10,	О
89	Electrochemical Conversion of Alcohols into Acidic Commodities on Nickel Sulfide Nanoparticles.	O
88	Enhancing electrical conductivity of single-atom doped Co3O4 nanosheet arrays at grain boundary by phosphor doping strategy for efficient water splitting.	1
87	Pt Nanowires on Monolayered Graphene Oxide for Electrocatalytic Oxidation of Methanol.	О
86	Boosting electrochemical nitrate-ammonia conversion via organic ligands-tuned proton transfer. 2022 , 107705	О
85	Decorated fractal Ni-Cu foam with Pd nanoparticles as a high-performance electrocatalyst toward hydrogen evolution reaction. 2022 , 758, 139415	O
84	Optimizing the electronic structure of CoNx via coupling with N-doped carbon for efficient electrochemical hydrogen evolution. 2022 , 628, 350-358	1
83	Rapid preparation of self-supported nickelfron oxide as a high-performance glucose sensing platform. 2022 , 10, 12883-12891	1
82	Boosting ethanol electrooxidation at RhBi alloy and Bi2O3 composite surfaces in alkaline media.	О
81	Benchmarking in electrocatalysis. 2022 ,	О

80	Amorphous FeNiCu-MOFs as highly efficient electrocatalysts for the oxygen evolution reaction in an alkaline medium. 2022 , 51, 14306-14316	0
79	Efficient transport of active species in triple-phase boundary through Paddle-Effectlbf ionomer for alkaline fuel cells. 2023, 452, 139498	1
78	Unveiling hydrogen evolution dependence on KOH concentration for polycrystalline and nanostructured nickel-based catalysts.	0
77	What X-Ray Absorption Spectroscopy Can Tell Us About the Active State of Earth-Abundant Electrocatalysts for the Oxygen Evolution Reaction.	Ο
76	What X-Ray Absorption Spectroscopy Can Tell Us About the Active State of Earth-Abundant Electrocatalysts for the Oxygen Evolution Reaction.	2
75	Vertically aligned Ni/NiO nanocomposites with abundant oxygen deficient hetero-interfaces for enhanced overall water splitting. 2022 , 65, 1885-1894	Ο
74	Improved Corrosion-Resistance and Regulated Electro-state of Elastic Polyaniline Coated Nickel Phosphide for Efficient Water Oxidation.	0
73	Highly Efficient Methanol Oxidation Reaction Achieved by Cobalt Doping in Delafossite AgNi1⊠CoxO2 Solid Solution.	Ο
72	Regulating the pyrolysis process of cation intercalated MnO2 nanomaterials for electrocatalytic urea oxidation performance. 2022 , 12, 30605-30610	0
71	Facet-Dependent Intrinsic Activity of Single Co 3 O 4 Nanoparticles for Oxygen Evolution Reaction. 2210945	O
70	Mixed NiCo-phosphate/sulphide heterostructure as an efficient electrocatalyst for hydrogen evolution reaction.	0
69	Electrochemically-grown Chloride-free Cu2O Nanocubes Favorably Electroreduce CO2 to Methane: The Interplay of Appropriate Electrochemical Protocol. 2022 , 141458	O
68	NiFe-LDH@Ni3S2 supported on nickel foam as highly active electrocatalysts for oxygen evolution reaction. 2022 ,	0
67	Water electrolysis. 2022 , 2,	1
66	Automated high-throughput activity and stability screening of electrocatalysts. 2022, 2, 2778-2794	1
65	Using coupled Ni and Zn oxides based on ZIF8 as efficient electrocatalyst for OER. 2022 , 435, 141362	O
64	Liquid-diffusion electrode with core-shell structured mixed metal oxide catalyst for near-zero polarization in chlor-alkali electrolysis. 2023 , 322, 122095	0
63	Surface charge recombination matters for single-versus polycrystalline catalysts in the case study	O

62	Fabrication of the novel NiFe-LDHs @EMnOOH nanorod electrocatalyst for effective water oxidation. 2022 , 106564	O
61	Error, reproducibility and uncertainty in experiments for electrochemical energy technologies. 2022 , 13,	1
60	Gas-Phase Synthesis of PtMo Alloy Electrocatalysts with Enhanced Activity and Durability for Oxygen Reduction Reaction.	0
59	Insights into the effects of pulsed parameters on H2O2 synthesis by two-electron oxygen reduction under pulsed electrocatalysis. 2023 , 146, 107414	O
58	Boosting Electrocatalytic Water Oxidation of NiFe Layered Double Hydroxide via the Synergy of 3d-4f Electron Interaction and Citrate Intercalation.	1
57	Anion-tuning of cobalt-based chalcogenides for efficient oxygen evolution in weakly alkaline seawater. 2023 , 267, 118366	O
56	Facile and controllable preparation of carbon microsphere for electro-driven nitrogen reduction: Accommodating nitrogen doping with hierarchical porous structure. 2023 , 634, 995-1004	0
55	Three-dimensional structured electrode for electrocatalytic organic wastewater purification: Design, mechanism and role. 2023 , 445, 130524	O
54	Iridium Stabilizes Ceramic Titanium Oxynitride Support for Oxygen Evolution Reaction. 2022 , 12, 15135-151	45 o
53	Different Synthetic Routes of Electrocatalysts and Fabrication of Electrodes. 2022 , 229-239	Ο
52	Metal-organic frameworks as electrocatalysts.	Ο
51	Metal-organic frameworks as electrocatalysts.	3
50	Nitrogen Defects in Porous Carbons with Adjacent Silver Nanoclusters for Efficient CO 2 Reduction. 2022 , 9,	Ο
49	Enhanced Triple-Phase Interface in PEMFC by Proton Conductor Absorption on the Pt Catalyst.	О
48	The Influence of Loadings and Substrates on the Performance of Nickel-Based Catalysts for the Oxygen Evolution Reaction.	0
47	In Situ Detection of Electrochemical Reaction Surface Area by Optical Weak Measurement.	О
46	Fuel Cell Power Source Based on Decaborane with High Energy Density and Low Crossover. 2023 , 101244	O
45	Electrodeposition of Stable Noble-Metal-Free Co-P Electrocatalysts for Hydrogen Evolution Reaction. 2023 , 16, 593	1

44	Ni3S4/NiS/rGO as a promising electrocatalyst for methanol and ethanol electro-oxidation.	О
43	Anionic defects engineering of NiCo2O4 for 5-hydroxymethylfurfural electrooxidation. 2023 , 457, 141344	Ο
42	Data-driven design of electrocatalysts: principle, progress, and perspective.	Ο
41	A Comparison of Photodeposited RuOx for Alkaline Water Electrolysis.	О
40	Transition Metal based Perovskite Oxides: Emerging Electrocatalysts for Oxygen Evolution Reaction.	0
39	Probing and Leveraging the Structural Heterogeneity of Nanomaterials for Enhanced Catalysis.	1
38	Determination of the Electroactive Surface Area of Supported Ir-Based Oxygen Evolution Catalysts by Impedance Spectroscopy: Observed Anomalies with Respect to Catalyst Loading.	O
37	Ruthenium nanoclusters modified by zinc species towards enhanced electrochemical hydrogen evolution reaction. 11,	O
36	Cobalt-doped IrRu bifunctional nanocrystals for reversal-tolerant anodes in proton-exchange membrane fuel cells. 2023 , 461, 141823	Ο
35	A perspective on inaccurate measurements in oxygen reduction and carbon dioxide reduction reactions. 2023 , 421, 221-227	Ο
34	Self-standing Co2P2O7@N-doped carbon/carbon foams for hydrogen evolution reaction in alkaline medium. 2023 , 135, 109843	0
33	Electrocatalytic oxygen evolution activities of metal chalcogenides and phosphides: Fundamentals, origins, and future strategies. 2023 , 81, 167-191	Ο
32	Gas diffusion electrode activity measurements of iridium-based self-supported catalysts produced by alternated physical vapour deposition. 2023 , 569, 232990	0
31	Fe-doped NiO nanoarray interlayer-modified Pd/Ni foam cathode for enhanced electrocatalytic hydrodechlorination. 2023 , 11, 109843	Ο
30	Heterostructured CNT-RuSx nanomaterials for efficient electrochemical hydrogen evolution reaction. 2023 , 331, 122681	0
29	Stabilizing Ni atoms on PtNi crystals by constructing PtNix-(CeO2)y heterostructures for improving durability of oxygen reduction reaction in acidic media. 2023 , 11, 109492	O
28	The importance of carefully choosing vertex potentials in hydrogen underpotential deposition. 2023 , 32, 101234	O
27	Highly dispersed 1[hm PtPd bimetallic clusters for formic acid electrooxidation through a CO-free mechanism. 2023 , 78, 554-564	Ο

26	In Situ Reconstructed Mo-doped Amorphous FeOOH Boosts the Oxygen Evolution Reaction. 2023 , 18,	1
25	MOF-derived ultrasmall Ru@RuO2 heterostructures as bifunctional and pH-universal electrocatalysts for 0.79 version asymmetric amphoteric overall water splitting. 2023, 460, 141672	1
24	Sensitive and selective electrochemical sensor for the detection of dopamine by using AuPd@Fe2O3 nanoparticles as catalyst. 2023 , 2, 100048	0
23	Methanol and Ethanol Electrooxidation on ZrO2/NiO/rGO. 2023 , 13, 679	O
22	Specific Capacitance of RuO2(110) Depends Sensitively on Surface Order. 2023, 127, 3682-3688	0
21	Electrochemical Methods and Materials for Transition Metal-Based Electrocatalysts in Alkaline and Acidic Media. 219-248	O
20	Enhanced Pomegranate-Structured SnO 2 Electrocatalysts for the Electrochemical CO 2 Reduction to Formate. 2023 , 10,	O
19	Carbon-Based Materials and Their Applications in Sensing by Electrochemical Voltammetry. 2023 , 11, 81	O
18	Evaluating Fe-Site and Vacancy Dependent Intrinsic Activity of NiFe Layered Double Hydroxides through Cavity Microelectrodes. 2023 , 14, 2148-2154	0
17	Rhenium-Based Electrocatalysts for Water Splitting.	O
16	Comparison of methods to determine electrocatalysts urface area in gas diffusion electrode setups: a case study on Pt/C and PtRu/C. 2023 , 5, 024007	0
15	ZIF-8-Derived Three-Dimensional Nitrogen-Doped Porous Carbon as a Pt Catalyst Support for Electrocatalytic Oxidation of Glucose in a Glucose Fuel Cell. 2023 , 6, 2886-2896	O
14	Recent Development of Self-Supported Alkaline Hydrogen Evolution Reaction Electrocatalysts for Industrial Electrolyzer. 2200178	O
13	Core-shell MOF-derived Fe3C-Co-NC as high-performance ORR/OER bifunctional catalyst. 2023 , 948, 169728	O
12	Oxygen Evolution/Reduction Reaction Catalysts: From In Situ Monitoring and Reaction Mechanisms to Rational Design.	0
11	Engineering Morphology and Ni Substitution of NixCo3NO4 Spinel Oxides to Promote Catalytic Combustion of Ethane: Elucidating the Influence of Oxygen Defects. 2023 , 13, 4683-4699	O
10	Selective Ethylene Glycol Oxidation to Formate on Nickel Selenide with Simultaneous Evolution of Hydrogen. 2300841	O
9	Advances and Perspective of Noble-Metal-Free Nitrogen-Doped Carbon for pH-Universal Oxygen Reduction Reaction Catalysts. 2023 , 37, 4858-4877	O

CITATION REPORT

8	A Little Nickel Goes a Long Way: Ni Incorporation into Rh2P for Stable Bifunctional Electrocatalytic Water Splitting in Acidic Media.	О
7	Design Strategy of Corrosion-Resistant Electrodes for Seawater Electrolysis. 2023 , 16, 2709	О
6	Electrochemical Oxidation Encapsulated Ru Clusters Enable Robust Durability for Efficient Oxygen Evolution.	0
5	Preparation of PtAg/C catalysts for the oxygen reduction in PEM fuel cells: comparison of ultrasonical and mechanical methods as the catalyst ink dispersion technique.	O
4	Revealing the In Situ Evolution of Tetrahedral NiMoO 4 Micropillar Array for Energy-Efficient Alkaline Hydrogen Production Assisted by Urea Electrolysis.	О
3	Blocking the sulfonate group in Nafion to unlock platinum activity in membrane electrode assemblies.	О
2	Bimetallic AgPt Nanoalloys as an Electrocatalyst for Ethanol Oxidation Reaction: Synthesis, Structural Analysis, and Electro-Catalytic Activity. 2023 , 13, 1396	0
1	Engineering strategies and active site identification of MXene-based catalysts for electrochemical conversion reactions.	О