Hao Ming Chen

List of Publications by Year
in descending order

180 papers	25,580 citations	13099 68 h-index	6471 157 g-index
185 all docs	185 docs citations	185 times ranked	23101 citing authors

#	Article	IF	Citations
1	Electrocatalysis for the oxygen evolution reaction: recent development and future perspectives. Chemical Society Reviews, 2017, 46, 337-365.	38.1	4,505
2	Atomically dispersed Ni(i) as the active site for electrochemical CO2 reduction. Nature Energy, 2018, 3, 140-147.	39.5	1,594
3	Atomically dispersed Fe ³⁺ sites catalyze efficient CO ₂ electroreduction to CO. Science, 2019, 364, 1091-1094.	12.6	1,164
4	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. Science Advances, 2016, 2, e1501122.	10.3	1,078
5	In Operando Identification of Geometrical-Site-Dependent Water Oxidation Activity of Spinel Co₃O₄. Journal of the American Chemical Society, 2016, 138, 36-39.	13.7	787
6	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO2. Nature Chemistry, 2019, 11, 222-228.	13.6	571
7	A Fully Integrated Nanosystem of Semiconductor Nanowires for Direct Solar Water Splitting. Nano Letters, 2013, 13, 2989-2992.	9.1	506
8	Nano-architecture and material designs for water splitting photoelectrodes. Chemical Society Reviews, 2012, 41, 5654.	38.1	483
9	Mechanism of Oxygen Evolution Catalyzed by Cobalt Oxyhydroxide: Cobalt Superoxide Species as a Key Intermediate and Dioxygen Release as a Rate-Determining Step. Journal of the American Chemical Society, 2020, 142, 11901-11914.	13.7	452
10	Hierarchical Ni-Mo-S nanosheets on carbon fiber cloth: A flexible electrode for efficient hydrogen generation in neutral electrolyte. Science Advances, 2015, 1, e1500259.	10.3	427
11	Enabling Direct H2O2 Production in Acidic Media through Rational Design of Transition Metal Single Atom Catalyst. CheM, 2020, 6, 658-674.	11.7	418
12	Ni³⁺â€Induced Formation of Active NiOOH on the Spinel Niâ€“Co Oxide Surface for Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2015, 5, 1500091.	19.5	408
13	A Cobaltâ€“Iron Double-Atom Catalyst for the Oxygen Evolution Reaction. Journal of the American Chemical Society, 2019, 141, 14190-14199.	13.7	401
14	Reversible adapting layer produces robust single-crystal electrocatalyst for oxygen evolution. Nature Communications, 2015, 6, 8106.	12.8	377
15	Operando Unraveling of the Structural and Chemical Stability of P-Substituted CoSe₂ Electrocatalysts toward Hydrogen and Oxygen Evolution Reactions in Alkaline Electrolyte. ACS Energy Letters, 2019, 4, 987-994.	17.4	363
16	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. Advanced Materials, 2019, 31, e1903909.	21.0	345
17	Markedly Enhanced Oxygen Reduction Activity of Single-Atom Fe Catalysts via Integration with Fe Nanoclusters. ACS Nano, 2019, 13, 11853-11862.	14.6	340
18	Breaking Long-Range Order in Iridium Oxide by Alkali Ion for Efficient Water Oxidation. Journal of the American Chemical Society, 2019, 141, 3014-3023.	13.7	337

#	Article	IF	Citations
19	Large-Scale Synthesis of Transition-Metal-Doped TiO₂ Nanowires with Controllable Overpotential. Journal of the American Chemical Society, 2013, 135, 9995-9998.	13.7	326
20	Pt Single Atoms Supported on Nâ€Doped Mesoporous Hollow Carbon Spheres with Enhanced Electrocatalytic H₂â€Evolution Activity. Advanced Materials, 2021, 33, e2008599.	21.0	314
21	<i>In Situ</i>/<i>Operando</i> Studies for Designing Next-Generation Electrocatalysts. ACS Energy Letters, 2020, 5, 1281-1291.	17.4	309
22	Plasmon Inducing Effects for Enhanced Photoelectrochemical Water Splitting: X-ray Absorption Approach to Electronic Structures. ACS Nano, 2012, 6, 7362-7372.	14.6	307
23	Singleâ€Atom Engineering of Directional Charge Transfer Channels and Active Sites for Photocatalytic Hydrogen Evolution. Advanced Functional Materials, 2018, 28, 1802169.	14.9	287
24	An Unconventional Iron Nickel Catalyst for the Oxygen Evolution Reaction. ACS Central Science, 2019, 5, 558-568.	11.3	263
25	Quantum Dot Monolayer Sensitized ZnO Nanowireâ€Array Photoelectrodes: True Efficiency for Water Splitting. Angewandte Chemie - International Edition, 2010, 49, 5966-5969.	13.8	254
26	An Amorphous Nickelâ€“Ironâ€Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. Advanced Materials, 2019, 31, e1900883.	21.0	243
27	Operando time-resolved X-ray absorption spectroscopy reveals the chemical nature enabling highly selective CO2 reduction. Nature Communications, 2020, 11, 3525.	12.8	242
28	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. CheM, 2020, 6, 3440-3454.	11.7	231
29	Dynamic Evolution of Atomically Dispersed Cu Species for CO₂ Photoreduction to Solar Fuels. ACS Catalysis, 2019, 9, 4824-4833.	11.2	230
30	Stabilizing ultrasmall Au clusters for enhanced photoredox catalysis. Nature Communications, 2018, 9, 1543.	12.8	223
31	Coordination engineering of iridium nanocluster bifunctional electrocatalyst for highly efficient and pH-universal overall water splitting. Nature Communications, 2020, 11, 4246.	12.8	221
32	Hollow Platinum Spheres with Nano-Channels: Synthesis and Enhanced Catalysis for Oxygen Reduction. Journal of Physical Chemistry C, 2008, 112, 7522-7526.	3.1	220
33	Ni₃N as an Active Hydrogen Oxidation Reaction Catalyst in Alkaline Medium. Angewandte Chemie - International Edition, 2019, 58, 7445-7449.	13.8	217
34	In Situ Electrochemical Production of Ultrathin Nickel Nanosheets for Hydrogen Evolution Electrocatalysis. CheM, 2017, 3, 122-133.	11.7	214
35	Facet engineering accelerates spillover hydrogenation on highly diluted metal nanocatalysts. Nature Nanotechnology, 2020, 15, 848-853.	31.5	210
36	Seedless, silver-induced synthesis of star-shaped gold/silver bimetallic nanoparticles as high efficiency photothermal therapy reagent. Journal of Materials Chemistry, 2012, 22, 2244-2253.	6.7	205

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37	Dynamic Reoxidation/Reduction-Driven Atomic Interdiffusion for Highly Selective CO₂ Reduction toward Methane. Journal of the American Chemical Society, 2020, 142, 12119-12132.	13.7	200
38	Atomic Metalâ€"Support Interaction Enables Reconstruction-Free Dual-Site Electrocatalyst. Journal of the American Chemical Society, 2022, 144, 1174-1186.	13.7	191
39	Linking the Dynamic Chemical State of Catalysts with the Product Profile of Electrocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2021, 60, 17254-17267.	13.8	185
40	Emerging dynamic structure of electrocatalysts unveiled by<i>in situ</i>X-ray diffraction/absorption spectroscopy. Energy and Environmental Science, 2021, 14, 1928-1958.	30.8	179
41	Identifying the electrocatalytic sites of nickel disulfide in alkaline hydrogen evolution reaction. Nano Energy, 2017, 41, 148-153.	16.0	168
42	A Single Cu-Center Containing Enzyme-Mimic Enabling Full Photosynthesis under CO₂ Reduction. ACS Nano, 2020, 14, 8584-8593.	14.6	166
43	Ni@NiO Coreâ€"Shell Structure-Modified Nitrogen-Doped InTaO₄ for Solar-Driven Highly Efficient CO₂ Reduction to Methanol. Journal of Physical Chemistry C, 2011, 115, 10180-10186.	3.1	165
44	Stable Quantum Dot Photoelectrolysis Cell for Unassisted Visible Light Solar Water Splitting. ACS Nano, 2014, 8, 10403-10413.	14.6	162
45	Double-atom catalysts as a molecular platform for heterogeneous oxygen evolution electrocatalysis. Nature Energy, 2021, 6, 1054-1066.	39.5	159
46	Architecture of Metallic Nanostructures: Synthesis Strategy and Specific Applications. Journal of Physical Chemistry C, 2011, 115, 3513-3527.	3.1	156
47	Biosensing, Cytotoxicity, and Cellular Uptake Studies of Surface-Modified Gold Nanorods. Journal of Physical Chemistry C, 2009, 113, 7574-7578.	3.1	126
48	A Universal Method to Engineer Metal Oxideâ€"Metalâ€"Carbon Interface for Highly Efficient Oxygen Reduction. ACS Nano, 2018, 12, 3042-3051.	14.6	125
49	Unraveling Geometrical Site Confinement in Highly Efficient Ironâ€Doped Electrocatalysts toward Oxygen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1701686.	19.5	125
50	Electrochemical Reduction of CO₂ to Ethane through Stabilization of an Ethoxy Intermediate. Angewandte Chemie - International Edition, 2020, 59, 19649-19653.	13.8	122
51	Iridium Oxideâ€Assisted Plasmonâ€Induced Hot Carriers: Improvement on Kinetics and Thermodynamics of Hot Carriers. Advanced Energy Materials, 2016, 6, 1501339.	19.5	111
52	Edgeless Agâ€"Pt Bimetallic Nanocages: In Situ Monitor Plasmon-Induced Suppression of Hydrogen Peroxide Formation. Journal of the American Chemical Society, 2017, 139, 2224-2233.	13.7	111
53	Morphology Manipulation of Copper Nanocrystals and Product Selectivity in the Electrocatalytic Reduction of Carbon Dioxide. ACS Catalysis, 2019, 9, 5217-5222.	11.2	105
54	Characterization of coreâ€"shell type and alloy Ag/Au bimetallic clusters by using extended X-ray absorption fine structure spectroscopy. Chemical Physics Letters, 2006, 421, 118-123.	2.6	99

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55	<i>In situ</i>X-ray diffraction and X-ray absorption spectroscopy of electrocatalysts for energy conversion reactions. Journal of Materials Chemistry A, 2020, 8, 19079-19112.	10.3	98
56	Engineering Lattice Disorder on a Photocatalyst: Photochromic BiOBr Nanosheets Enhance Activation of Aromatic Câ€“H Bonds via Water Oxidation. Journal of the American Chemical Society, 2022, 144, 3386-3397.	13.7	96
57	Identification of Stabilizing High-Valent Active Sites by Operando High-Energy Resolution Fluorescence-Detected X-ray Absorption Spectroscopy for High-Efficiency Water Oxidation. Journal of the American Chemical Society, 2018, 140, 17263-17270.	13.7	92
58	Progressive Design of Plasmonic Metalâ€“Semiconductor Ensemble toward Regulated Charge Flow and Improved Visâ€“NIRâ€Driven Solarâ€toâ€Chemical Conversion. Small, 2017, 13, 1602947.	10.0	88
59	A New Approach to Solar Hydrogen Production: a ZnOâ€“ZnS Solid Solution Nanowire Array Photoanode. Advanced Energy Materials, 2011, 1, 742-747.	19.5	86
60	Efficient Hydrogen Oxidation Catalyzed by Strainâ€Engineered Nickel Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 10797-10801.	13.8	81
61	Valence- and element-dependent water oxidation behaviors: in situ X-ray diffraction, absorption and electrochemical impedance spectroscopies. Physical Chemistry Chemical Physics, 2017, 19, 8681-8693.	2.8	80
62	Plasmonic ZnO/Ag Embedded Structures as Collecting Layers for Photogenerating Electrons in Solar Hydrogen Generation Photoelectrodes. Small, 2013, 9, 2926-2936.	10.0	76
63	Harnessing Dielectric Confinement on Tin Perovskites to Achieve Emission Quantum Yield up to 21%. Journal of the American Chemical Society, 2019, 141, 10324-10330.	13.7	76
64	In Situ Spatially Coherent Identification of Phosphide-Based Catalysts: Crystallographic Latching for Highly Efficient Overall Water Electrolysis. ACS Energy Letters, 2019, 4, 2813-2820.	17.4	75
65	Heterojunction of Zinc Blende/Wurtzite in Zn_{1â€“<i>x</i>}Cd_{<i>x</i>}S Solid Solution for Efficient Solar Hydrogen Generation: X-ray Absorption/Diffraction Approaches. ACS Applied Materials & Interfaces, 2015, 7, 22558-22569.	8.0	74
66	Quantitatively Unraveling the Redox Shuttle of Spontaneous Oxidation/Electroreduction of CuO_{<i>x</i>} on Silver Nanowires Using in Situ X-ray Absorption Spectroscopy. ACS Central Science, 2019, 5, 1998-2009.	11.3	74
67	Product-Specific Active Site Motifs of Cu for Electrochemical CO2 Reduction. CheM, 2021, 7, 406-420.	11.7	72
68	Synthesis and Characterization of Multi-Pod-Shaped Gold/Silver Nanostructures. Journal of Physical Chemistry C, 2007, 111, 5909-5914.	3.1	71
69	Tuning the Electronic Spin State of Catalysts by Strain Control for Highly Efficient Water Electrolysis. Small Methods, 2018, 2, 1800001.	8.6	70
70	Controlling the Length and Shape of Gold Nanorods. Journal of Physical Chemistry B, 2005, 109, 19553-19555.	2.6	67
71	Multi-Bandgap-Sensitized ZnO Nanorod Photoelectrode Arrays for Water Splitting: An X-ray Absorption Spectroscopy Approach for the Electronic Evolution under Solar Illumination. Journal of Physical Chemistry C, 2011, 115, 21971-21980.	3.1	67
72	Fast Fabrication of a Ag Nanostructure Substrate Using the Femtosecond Laser for Broad-Band and Tunable Plasmonic Enhancement. ACS Nano, 2012, 6, 5190-5197.	14.6	67

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73	Plasmonic optical properties of a single gold nano-rod. Optics Express, 2007, 15, 7132.	3.4	63
74	A Versatile Route to the Controlled Synthesis of Gold Nanostructures. Crystal Growth and Design, 2009, 9, 2079-2087.	3.0	63
75	In Situ Identification of Photo- and Moisture-Dependent Phase Evolution of Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 342-348.	17.4	62
76	Mesoporous TiO₂ Embedded with a Uniform Distribution of CuO Exhibit Enhanced Charge Separation and Photocatalytic Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 42425-42429.	8.0	62
77	Plasmon-enhanced near-infrared-active materials in photoelectrochemical water splitting. Chemical Communications, 2013, 49, 7917.	4.1	61
78	Light-Induced In Situ Transformation of Metal Clusters to Metal Nanocrystals for Photocatalysis. ACS Applied Materials & Interfaces, 2015, 7, 28105-28109.	8.0	59
79	Tracking high-valent surface iron species in the oxygen evolution reaction on cobalt iron (oxy)hydroxides. Energy and Environmental Science, 2022, 15, 206-214.	30.8	59
80	Ptâ€"Ru Dimer Electrocatalyst with Electron Redistribution for Hydrogen Evolution Reaction. ACS Catalysis, 2022, 12, 5540-5548.	11.2	58
81	Targeting polymeric fluorescent nanodiamond-gold/silver multi-functional nanoparticles as a light-transforming hyperthermia reagent for cancer cells. Nanoscale, 2013, 5, 3931.	5.6	53
82	Active and Stable Liquid Water Innovatively Prepared Using Resonantly Illuminated Gold Nanoparticles. ACS Nano, 2014, 8, 2704-2713.	14.6	52
83	The synergistic effect of a well-defined Au@Pt coreâ€"shell nanostructure toward photocatalytic hydrogen generation: interface engineering to improve the Schottky barrier and hydrogen-evolved kinetics. Chemical Communications, 2016, 52, 1567-1570.	4.1	52
84	Strongly Coupled Tinâ€Halide Perovskites to Modulate Light Emission: Tunable 550â€"640 nm Light Emission (FWHM 36â€"80 nm) with a Quantum Yield of up to 6.4%. Advanced Materials, 2018, 30, e1706592.	21.0	51
85	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO₂ Reduction. ACS Catalysis, 2021, 11, 7292-7301.	11.2	51
86	Generating Isotropic Superparamagnetic Interconnectivity for the Two-Dimensional Organization of Nanostructured Building Blocks. Angewandte Chemie - International Edition, 2006, 45, 2713-2717.	13.8	50
87	A sensitive and selective magnetic graphene composite-modified polycrystalline-silicon nanowire field-effect transistor for bladder cancer diagnosis. Biosensors and Bioelectronics, 2015, 66, 198-207.	10.1	47
88	Defect Passivation by Amide-Based Hole-Transporting Interfacial Layer Enhanced Perovskite Grain Growth for Efficient pâ€"iâ€"n Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 40050-40061.	8.0	46
89	Amorphous Multimetal Alloy Oxygen Evolving Catalysts. , 2020, 2, 624-632.		45
90	A novel CO-tolerant PtRu coreâ€"shell structured electrocatalyst with Ru rich in core and Pt rich in shell for hydrogen oxidation reaction and its implication in proton exchange membrane fuel cell. Journal of Power Sources, 2011, 196, 9117-9123.	7.8	44

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91	Strong Catalystâ€"Support Interactions in Electrochemical Oxygen Evolution on Niâ€"Fe Layered Double Hydroxide. ACS Energy Letters, 2020, 5, 3185-3194.	17.4	44
92	Controlling Length of Gold Nanowires with Large-Scale:â€‰ X-ray Absorption Spectroscopy Approaches to the Growth Process. Journal of Physical Chemistry C, 2007, 111, 18550-18557.	3.1	43
93	An alternative cobalt oxide-supported platinum catalyst for efficient hydrolysis of sodium borohydride. Journal of Materials Chemistry, 2011, 21, 11754.	6.7	43
94	Linking the Dynamic Chemical State of Catalysts with the Product Profile of Electrocatalytic CO₂ Reduction. Angewandte Chemie, 2021, 133, 17394-17407.	2.0	42
95	Multifunctions of Excited Gold Nanoparticles Decorated Artificial Kidney with Efficient Hemodialysis and Therapeutic Potential. ACS Applied Materials & Interfaces, 2016, 8, 19691-19700.	8.0	41
96	ZnO nanorod optical disk photocatalytic reactor for photodegradation of methyl orange. Optics Express, 2013, 21, 7240.	3.4	40
97	Controlling Optical Properties of Aluminum Oxide Using Electrochemical Deposition. Journal of the Electrochemical Society, 2007, 154, K11.	2.9	39
98	Fabrication of Nanorattles with Passive Shell. Journal of Physical Chemistry B, 2006, 110, 19162-19167.	2.6	38
99	Ferromagnetic CoPt₃ Nanowires: Structural Evolution from fcc to Ordered L1₂. Journal of the American Chemical Society, 2009, 131, 15794-15801.	13.7	38
100	Spectrally Precoded OFDM and OFDMA with Cyclic Prefix and Unconstrained Guard Ratios. IEEE Transactions on Wireless Communications, 2011, 10, 1416-1427.	9.2	38
101	In Situ Identifying the Dynamic Structure behind Activity of Atomically Dispersed Platinum Catalyst toward Hydrogen Evolution Reaction. Small, 2021, 17, e2005713.	10.0	38
102	Magnetically recyclable Fe@Co core-shell catalysts for dehydrogenation of sodium borohydride in fuel cells. International Journal of Hydrogen Energy, 2012, 37, 3338-3343.	7.1	36
103	Chemical distinctions between Stradivariâ€™s maple and modern tonewood. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 27-32.	7.1	36
104	Ambient methane functionalization initiated by electrochemical oxidation of a vanadium (V)-oxo dimer. Nature Communications, 2020, 11, 3686.	12.8	36
105	Pdâˆ'Câˆ'Fe Nanoparticles Investigated by X-ray Absorption Spectroscopy as Electrocatalysts for Oxygen Reduction. Chemistry of Materials, 2009, 21, 4030-4036.	6.7	33
106	Innovative strategy with potential to increase hemodialysis efficiency and safety. Scientific Reports, 2014, 4, 4425.	3.3	33
107	Electrochemical Reduction of CO₂ to Ethane through Stabilization of an Ethoxy Intermediate. Angewandte Chemie, 2020, 132, 19817-19821.	2.0	33
108	Dynamic Co(<i>Âµ</i>â€O)₂Ru Moiety Endowed Efficiently Catalytic Hydrogen Evolution. Advanced Energy Materials, 2022, 12, .	19.5	33

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109	Quantum-Dot-Sensitized Nitrogen-Doped ZnO for Efficient Photoelectrochemical Water Splitting. European Journal of Inorganic Chemistry, 2014, 2014, 773-779.	2.0	31
110	Innovative Strategy on Hydrogen Evolution Reaction Utilizing Activated Liquid Water. Scientific Reports, 2015, 5, 16263.	3.3	30
111	Anionic Effects on Metal Pair of Se-Doped Nickel Diphosphide for Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 14247-14255.	6.7	30
112	Revealing the structural transformation of rutile RuO₂ <i>via in situ</i> X-ray absorption spectroscopy during the oxygen evolution reaction. Dalton Transactions, 2019, 48, 7122-7129.	3.3	30
113	Strong Correlation between the Dynamic Chemical State and Product Profile of Carbon Dioxide Electroreduction. ACS Applied Materials & Interfaces, 2022, 14, 22681-22696.	8.0	30
114	Lead-free hybrid perovskite photocatalysts: surface engineering, charge-carrier behaviors, and solar-driven applications. Journal of Materials Chemistry A, 2022, 10, 12296-12316.	10.3	29
115	High Spin State Promotes Water Oxidation Catalysis at Neutral pH in Spinel Cobalt Oxide. Industrial & Engineering Chemistry Research, 2018, 57, 1441-1445.	3.7	28
116	Investigation on Mechanism of Catalysis by Ptâˆ’LiCoO₂ for Hydrolysis of Sodium Borohydride Using X-ray Absorption. Journal of Physical Chemistry B, 2008, 112, 4870-4875.	2.6	27
117	Lightâ€Induced Activation of Adaptive Junction for Efficient Solarâ€Driven Oxygen Evolution: In Situ Unraveling the Interfacial Metalâ€"Silicon Junction. Advanced Energy Materials, 2019, 9, 1901308.	19.5	27
118	Direct electron transfer of glucose oxidase and dual hydrogen peroxide and glucose detection based on water-dispersible carbon nanotubes derivative. Analytica Chimica Acta, 2015, 867, 83-91.	5.4	26
119	Creation of Electron-doping Liquid Water with Reduced Hydrogen Bonds. Scientific Reports, 2016, 6, 22166.	3.3	26
120	Vertical 2D/3D Heterojunction of Tin Perovskites for Highly Efficient HTM-Free Perovskite Solar Cell. ACS Applied Energy Materials, 2021, 4, 2041-2048.	5.1	26
121	Local structural characterization of Au/Pt bimetallic nanoparticles. Chemical Physics Letters, 2006, 420, 484-488.	2.6	25
122	Carbon incorporated FeN/C electrocatalyst for oxygen reduction enhancement in direct methanol fuel cells: X-ray absorption approach to local structures. Electrochimica Acta, 2011, 56, 8734-8738.	5.2	25
123	A Universal Approach for Controllable Synthesis of <i>n</i>â€Specific Layered 2D Perovskite Nanoplates. Angewandte Chemie - International Edition, 2021, 60, 7866-7872.	13.8	24
124	Modulation of Crystal Surface and Lattice by Doping: Achieving Ultrafast Metal-Ion Insertion in Anatase TiO₂. ACS Applied Materials & Interfaces, 2016, 8, 29186-29193.	8.0	23
125	<i>In situ</i> unraveling of the effect of the dynamic chemical state on selective CO₂ reduction upon zinc electrocatalysts. Nanoscale, 2020, 12, 18013-18021.	5.6	23
126	Quantitative Evaluation on Activated Property-Tunable Bulk Liquid Water with Reduced Hydrogen Bonds Using Deconvoluted Raman Spectroscopy. Analytical Chemistry, 2015, 87, 808-815.	6.5	21

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127	In situ morphological transformation and investigation of electrocatalytic properties of cobalt oxide nanostructures toward oxygen evolution. CrystEngComm, 2016, 18, 6008-6012.	2.6	21
128	MOF-Templated Sulfurization of Atomically Dispersed Manganese Catalysts Facilitating Electroreduction of CO₂ to CO. ACS Applied Materials & Interfaces, 2021, 13, 52134-52143.	8.0	17
129	An environmentally friendly etching agent: vapor from hot electron-activated liquid water. Green Chemistry, 2016, 18, 3098-3105.	9.0	16
130	In Situ Creation of Surface-Enhanced Raman Scattering Active Auâ€“AuO<i>_x</i> Nanostructures through Electrochemical Process for Pigment Detection. ACS Omega, 2018, 3, 16576-16584.	3.5	15
131	Electronic structure inspired a highly robust electrocatalyst for the oxygen-evolution reaction. Chemical Communications, 2020, 56, 8071-8074.	4.1	15
132	Probing the Spatial Organization of Bacteriochlorophyll <i>c</i> by Solid-State Nuclear Magnetic Resonance. Biochemistry, 2014, 53, 5515-5525.	2.5	14
133	Effective Energy Transfer via Plasmon-Activated High-Energy Water Promotes Its Fundamental Activities of Solubility, Ionic Conductivity and Extraction at Room Temperature. Scientific Reports, 2015, 5, 18152.	3.3	14
134	The individual role of active sites in bimetallic oxygen evolution reaction catalysts. Dalton Transactions, 2020, 49, 17505-17510.	3.3	13
135	Efficient Hydrogen Oxidation Catalyzed by Strainâ€Engineered Nickel Nanoparticles. Angewandte Chemie, 2020, 132, 10889-10893.	2.0	13
136	Triggering comprehensive enhancement in oxygen evolution reaction by using newly created solvent. Scientific Reports, 2016, 6, 28456.	3.3	11
137	Facile preparation of electroactive graphene derivative and its potential application in electrochemical detection. Sensors and Actuators B: Chemical, 2017, 240, 1153-1159.	7.8	11
138	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie - International Edition, 2021, 60, 19144-19154.	13.8	11
139	Tunable Electrodeposition of Ni Electrocatalysts onto Si Microwires Array for Photoelectrochemical Water Oxidation. Particle and Particle Systems Characterization, 2018, 35, 1700321.	2.3	10
140	Innovatively Therapeutic Strategy on Lung Cancer by Daily Drinking Antioxidative Plasmon-Induced Activated Water. Scientific Reports, 2018, 8, 6316.	3.3	9
141	Comprehensively Probing the Contribution of Site Activity and Population of Active Sites toward Heterogeneous Electrocatalysis. ChemCatChem, 2020, 12, 1926-1933.	3.7	7
142	Photocatalysis: Single-Atom Engineering of Directional Charge Transfer Channels and Active Sites for Photocatalytic Hydrogen Evolution (Adv. Funct. Mater. 32/2018). Advanced Functional Materials, 2018, 28, 1870224.	14.9	6
143	A Universal Approach for Controllable Synthesis of n â€Specific Layered 2D Perovskite Nanoplates. Angewandte Chemie, 2021, 133, 7945-7951.	2.0	6
144	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie, 2021, 133, 19293-19303.	2.0	6

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145	Turn the Trash into Treasure: Egg-White-Derived Single-Atom Electrocatalysts Boost Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	6
146	Morphology and Surface Plasma Changes of Auâ€“Pt Bimetallic Nanoparticles. Journal of Nanoscience and Nanotechnology, 2006, 6, 1411-1415.	0.9	5
147	Surfactant-assisted preparation of surface-enhanced Raman scattering-active substrates. RSC Advances, 2014, 4, 10553.	3.6	5
148	Breakthrough to Non-Vacuum Deposition of Single-Crystal, Ultra-Thin, Homogeneous Nanoparticle Layers: A Better Alternative to Chemical Bath Deposition and Atomic Layer Deposition. Nanomaterials, 2017, 7, 78.	4.1	5
149	Electrocatalysts: Unraveling Geometrical Site Confinement in Highly Efficient Ironâ€Doped Electrocatalysts toward Oxygen Evolution Reaction (Adv. Energy Mater. 7/2018). Advanced Energy Materials, 2018, 8, 1870032.	19.5	5
150	Heterocyclic-Additive-Activated Dinuclear Dysprosium Electrocatalysts for Heterogeneous Water Oxidation. Inorganic Chemistry, 2021, 60, 6930-6938.	4.0	5
151	Electrocatalytic Methane Functionalization with d⁰ Early Transition Metals Under Ambient Conditions. Angewandte Chemie - International Edition, 2021, 60, 26630-26638.	13.8	5
152	<i>In situ</i> probing the dynamic reconstruction of copperâ€“zinc electrocatalysts for CO₂ reduction. Nanoscale, 2022, 14, 8944-8950.	5.6	5
153	Highly efficient urchin-like bimetallic nanoparticles for photothermal cancer therapy. SPIE Newsroom, 0, , .	0.1	4
154	More conductive polypyrrole electrodeposited on substrates with close-packed gold nanoparticles. Journal of Electroanalytical Chemistry, 2014, 722-723, 83-89.	3.8	4
155	Controlling Length and Monitoring Growth of Gold Nanorods. Journal of the Chinese Chemical Society, 2006, 53, 1343-1348.	1.4	3
156	In situ Observation of Electrodeposited Bimetallic pâ€Si Micropillar Array Photocathode for Solarâ€Driven Hydrogen Evolution. Solar Rrl, 2020, 4, 2000028.	5.8	3
157	Tracking the <i>in situ</i> generation of hetero-metalâ€“metal bonds in phosphide electrocatalysts for electrocatalytic hydrogen evolution. Catalysis Science and Technology, 2022, 12, 3234-3239.	4.1	3
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