Wenbin Hu

List of Publications by Year
in descending order

173	15,154	23500	18606
papers	citations	58 h-index	119 g-index

181	181	181	14362
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review of electrolyte materials and compositions for electrochemical supercapacitors. Chemical Society Reviews, 2015, 44, 7484-7539.	18.7	2,723
2	Review of Hybrid Ion Capacitors: From Aqueous to Lithium to Sodium. Chemical Reviews, 2018, 118, 6457-6498.	23.0	741
3	Atomically Dispersed Binary Coâ€Ni Sites in Nitrogenâ€Doped Hollow Carbon Nanocubes for Reversible Oxygen Reduction and Evolution. Advanced Materials, 2019, 31, e1905622.	11.1	537
4	Generation of Nanoparticle, Atomicâ€Cluster, and Singleâ€Atom Cobalt Catalysts from Zeolitic Imidazole Frameworks by Spatial Isolation and Their Use in Zincâ€“Air Batteries. Angewandte Chemie - International Edition, 2019, 58, 5359-5364.	7.2	500
5	Decoupling electrolytes towards stable and high-energy rechargeable aqueous zincâ€“manganese dioxide batteries. Nature Energy, 2020, 5, 440-449.	19.8	430
6	NiCo 2 S 4 nanocrystals anchored on nitrogen-doped carbon nanotubes as a highly efficient bifunctional electrocatalyst for rechargeable zinc-air batteries. Nano Energy, 2017, 31, 541-550.	8.2	365
7	Identifying the Activation of Bimetallic Sites in NiCo₂S₄@gâ€C₃N₄â€CNT Hybrid Electrocatalysts for Synergistic Oxygen Reduction and Evolution. Advanced Materials, 2019, 31, e1808281.	11.1	315
8	Ultrathin Co₃O₄ Layers with Large Contact Area on Carbon Fibers as Highâ€Performance Electrode for Flexible Zincâ€“Air Battery Integrated with Flexible Display. Advanced Energy Materials, 2017, 7, 1700779.	10.2	309
9	Atomically Thin Mesoporous Co₃O₄ Layers Strongly Coupled with Nâ€rGO Nanosheets as Highâ€Performance Bifunctional Catalysts for 1D Knittable Zincâ€“Air Batteries. Advanced Materials, 2018, 30, 1703657.	11.1	302
10	Recent Advances in Flexible Zincâ€Based Rechargeable Batteries. Advanced Energy Materials, 2019, 9, 1802605.	10.2	296
11	Ultrafine Pt Nanoparticleâ€Decorated Pyriteâ€Type CoS₂ Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting. Advanced Energy Materials, 2018, 8, 1800935.	10.2	286
12	Interfacial engineering of Bi2S3/Ti3C2Tx MXene based on work function for rapid photo-excited bacteria-killing. Nature Communications, 2021, 12, 1224.	5.8	283
13	Challenges in Zinc Electrodes for Alkaline Zincâ€“Air Batteries: Obstacles to Commercialization. ACS Energy Letters, 2019, 4, 2259-2270.	8.8	276
14	Phase and composition controlled synthesis of cobalt sulfide hollow nanospheres for electrocatalytic water splitting. Nanoscale, 2018, 10, 4816-4824.	2.8	256
15	Identifying Dense NiSe₂/CoSe₂ Heterointerfaces Coupled with Surface Highâ€Valence Bimetallic Sites for Synergistically Enhanced Oxygen Electrocatalysis. Advanced Materials, 2020, 32, e2000607.	11.1	251
16	Sub-3 nm Co₃O₄ Nanofilms with Enhanced Supercapacitor Properties. ACS Nano, 2015, 9, 1730-1739.	7.3	248
17	Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis. Advanced Energy Materials, 2018, 8, 1702222.	10.2	243
18	Sulfurâ€Grafted Hollow Carbon Spheres for Potassiumâ€Ion Battery Anodes. Advanced Materials, 2019, 31, e1900429.	11.1	235

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19	Sequential Electrodeposition of Bifunctional Catalytically Active Structures in MoO₃/Niâ€“NiO Composite Electrocatalysts for Selective Hydrogen and Oxygen Evolution. Advanced Materials, 2020, 32, e2003414.	11.1	206
20	Utilizing solar energy to improve the oxygen evolution reaction kinetics in zincâ€“air battery. Nature Communications, 2019, 10, 4767.	5.8	199
21	Spontaneous Synthesis of Silverâ€Nanoparticleâ€Decorated Transitionâ€Metal Hydroxides for Enhanced Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2020, 59, 7245-7250.	7.2	196
22	A Rechargeable Znâ€“Air Battery with High Energy Efficiency and Long Life Enabled by a Highly Waterâ€Retentive Gel Electrolyte with Reaction Modifier. Advanced Materials, 2020, 32, e1908127.	11.1	172
23	Latticeâ€Strain Engineering of Homogeneous NiS_{0.5}Se_{0.5} Coreâ€“Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. Advanced Materials, 2020, 32, e2000231.	11.1	158
24	Confronting the Challenges in Lithium Anodes for Lithium Metal Batteries. Advanced Science, 2021, 8, e2101111.	5.6	157
25	Metalâ€“Air Batteries: From Static to Flow System. Advanced Energy Materials, 2018, 8, 1801396.	10.2	156
26	Dislocationâ€Strained IrNi Alloy Nanoparticles Driven by Thermal Shock for the Hydrogen Evolution Reaction. Advanced Materials, 2020, 32, e2006034.	11.1	148
27	Battery Technologies for Grid-Level Large-Scale Electrical Energy Storage. Transactions of Tianjin University, 2020, 26, 92-103.	3.3	146
28	Recent advances and challenges in divalent and multivalent metal electrodes for metalâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 18183-18208.	5.2	139
29	Highly Active and Durable Singleâ€Atom Tungstenâ€Doped NiS_{0.5}Se_{0.5} Nanosheetâ€Š@â€ŠNiS_{0.5}Se_{0.5} Nanorod Heterostructures for Water Splitting. Advanced Materials, 2022, 34, e2107053.	11.1	136
30	Clarifying the Controversial Catalytic Performance of Co(OH)₂ and Co₃O₄ for Oxygen Reduction/Evolution Reactions toward Efficient Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2017, 9, 22694-22703.	4.0	121
31	Designed synthesis of NiCo-LDH and derived sulfide on heteroatom-doped edge-enriched 3D rivet graphene films for high-performance asymmetric supercapacitor and efficient OER. Journal of Materials Chemistry A, 2018, 6, 8109-8119.	5.2	121
32	Controllable Synthesis of Ni_xSe (0.5 â‰¤ x â‰¤ 1) Nanocrystals for Efficient Rechargeable Zincâ€“Air Batteries and Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 13675-13684.	4.0	116
33	Bimetallic Metalâ€“Organic-Framework/Reduced Graphene Oxide Composites as Bifunctional Electrocatalysts for Rechargeable Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2019, 11, 15662-15669.	4.0	107
34	Generation of Nanoparticle, Atomicâ€Cluster, and Singleâ€Atom Cobalt Catalysts from Zeolitic Imidazole Frameworks by Spatial Isolation and Their Use in Zincâ€“Air Batteries. Angewandte Chemie, 2019, 131, 5413-5418.	1.6	106
35	Encapsulating Cobalt Nanoparticles in Interconnected Nâ€Doped Hollow Carbon Nanofibers with Enriched Coï¿½ï¿½C Moiety for Enhanced Oxygen Electrocatalysis in Znâ€Air Batteries. Advanced Science, 2021, 8, e2101438.	5.6	104
36	In Situ Fabrication of Heterostructure on Nickel Foam with Tuned Composition for Enhancing Waterâ€Splitting Performance. Small, 2018, 14, e1803666.	5.2	100

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37	Advances in the development of power supplies for the Internet of Everything. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 130-139.	8.5	97
38	Review of Emerging Potassiumâ€“Sulfur Batteries. Advanced Materials, 2020, 32, e1908007.	11.1	91
39	Ultrathin Co₃O₄nanofilm as an efficient bifunctional catalyst for oxygen evolution and reduction reaction in rechargeable zincâ€“air batteries. Nanoscale, 2017, 9, 8623-8630.	2.8	90
40	Highâ€Temperature Shock Enabled Nanomanufacturing for Energyâ€Related Applications. Advanced Energy Materials, 2020, 10, 2001331.	10.2	86
41	Engineering the Surface Metal Active Sites of Nickel Cobalt Oxide Nanoplates toward Enhanced Oxygen Electrocatalysis for Znâ€“Air Battery. ACS Applied Materials & Interfaces, 2019, 11, 4915-4921.	4.0	84
42	Pt-Decorated highly porous flower-like Ni particles with high mass activity for ammonia electro-oxidation. Journal of Materials Chemistry A, 2016, 4, 11060-11068.	5.2	83
43	Boosting Energy Efficiency and Stability of Liâ€“CO₂ Batteries via Synergy between Ru Atom Clusters and Singleâ€Atom Ruâ€“N₄ sites in the Electrocatalyst Cathode. Advanced Materials, 2022, 34, e2200559.	11.1	83
44	Acceptorâ€Doping Accelerated Charge Separation in Cu₂O Photocathode for Photoelectrochemical Water Splitting: Theoretical and Experimental Studies. Angewandte Chemie - International Edition, 2020, 59, 18463-18467.	7.2	82
45	Carbonâ€based cathode materials for rechargeable zincâ€air batteries: From current collectors to bifunctional integrated air electrodes. , 2020, 2, 370-386.		82
46	Confined Fe₂VO₄âŠ‚Nitrogenâ€Doped Carbon Nanowires with Internal Void Space for Highâ€Rate and Ultrastable Potassiumâ€Ion Storage. Advanced Energy Materials, 2019, 9, 1902674.	10.2	81
47	Inversely Tuning the CO₂Electroreduction and Hydrogen Evolution Activity on Metal Oxide via Heteroatom Doping. Angewandte Chemie - International Edition, 2021, 60, 7602-7606.	7.2	81
48	Electrochemical Oxidation of Chlorine-Doped Co(OH)₂ Nanosheet Arrays on Carbon Cloth as a Bifunctional Oxygen Electrode. ACS Applied Materials & Interfaces, 2018, 10, 796-805.	4.0	79
49	Identifying Heteroatomic and Defective Sites in Carbon with Dual-Ion Adsorption Capability for High Energy and Power Zinc Ion Capacitor. Nano-Micro Letters, 2021, 13, 59.	14.4	78
50	Nanosheets assembled into nickel sulfide nanospheres with enriched Ni³⁺ active sites for efficient water-splitting and zincâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 23787-23793.	5.2	76
51	Rational Design and Spontaneous Sulfurization of NiCoâ€(oxy)Hydroxysulfides Nanosheets with Modulated Local Electronic Configuration for Enhancing Oxygen Electrocatalysis. Advanced Energy Materials, 2022, 12, .	10.2	74
52	Mesoporous Decoration of Freestanding Palladium Nanotube Arrays Boosts the Electrocatalysis Capabilities toward Formic Acid and Formate Oxidation. Advanced Energy Materials, 2019, 9, 1900955.	10.2	72
53	Atomic Layer Co₃O₄ Nanosheets: The Key to Knittable Znâ€“Air Batteries. Small, 2018, 14, e1702987.	5.2	68
54	Extreme Environmental Thermal Shock Induced Dislocationâ€Rich Pt Nanoparticles Boosting Hydrogen Evolution Reaction. Advanced Materials, 2022, 34, e2106973.	11.1	68

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55	Airâ€Assisted Transient Synthesis of Metastable Nickel Oxide Boosting Alkaline Fuel Oxidation Reaction. Advanced Energy Materials, 2020, 10, 2001397.	10.2	66
56	A Simple Oneâ€Pot Strategy for Synthesizing Ultrafine SnS₂ Nanoparticle/Graphene Composites as Anodes for Lithium/Sodiumâ€Ion Batteries. ChemSusChem, 2018, 11, 1549-1557.	3.6	63
57	Potassiumâ€Ion Batteries: Sulfurâ€Grafted Hollow Carbon Spheres for Potassiumâ€Ion Battery Anodes (Adv.) Tj ETQq1 1 0.784314 rgB	11.1	63
58	Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zincâ€“Air Batteries. Advanced Materials, 2021, 33, e2006461.	11.1	63
59	Long-battery-life flexible zincâ€“air battery with near-neutral polymer electrolyte and nanoporous integrated air electrode. Journal of Materials Chemistry A, 2019, 7, 25449-25457.	5.2	61
60	Hierarchical iridium-based multimetallic alloy with double-core-shell architecture for efficient overall water splitting. Science China Materials, 2020, 63, 249-257.	3.5	59
61	Thermal Shock-Activated Spontaneous Growing of Nanosheets for Overall Water Splitting. Nano-Micro Letters, 2020, 12, 162.	14.4	59
62	Feâ€“C-coated fibre Bragg grating sensor for steel corrosion monitoring. Corrosion Science, 2011, 53, 1933-1938.	3.0	58
63	Shape-controlled synthesis of Pt-Ir nanocubes with preferential (100) orientation and their unusual enhanced electrocatalytic activities. Science China Materials, 2014, 57, 13-25.	3.5	58
64	PdPt bimetallic nanoparticles enabled by shape control with halide ions and their enhanced catalytic activities. Nanoscale, 2016, 8, 3962-3972.	2.8	55
65	Flexible and Wearable Power Sources for Nextâ€Generation Wearable Electronics. Batteries and Supercaps, 2020, 3, 1262-1274.	2.4	53
66	Multiple Twin Boundaryâ€Regulated Metastable Pd for Ethanol Oxidation Reaction. Advanced Energy Materials, 2022, 12, 2103505.	10.2	51
67	Phase Transfer of Mo₂C Induced by Boron Doping to Boost Nitrogen Reduction Reaction Catalytic Activity. Advanced Functional Materials, 2022, 32, .	7.8	51
68	1Tâ€²â€ReS₂ Confined in 2Dâ€Honeycombed Carbon Nanosheets as New Anode Materials for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1901146.	10.2	50
69	Tunable Periodically Ordered Mesoporosity in Palladium Membranes Enables Exceptional Enhancement of Intrinsic Electrocatalytic Activity for Formic Acid Oxidation. Angewandte Chemie - International Edition, 2020, 59, 5092-5101.	7.2	45
70	Pt embedded Ni3Se2@NiOOH core-shell dendrite-like nanoarrays on nickel as bifunctional electrocatalysts for overall water splitting. Science China Materials, 2019, 62, 1096-1104.	3.5	43
71	Engineering cobalt sulfide/oxide heterostructure with atomically mixed interfaces for synergistic electrocatalytic water splitting. Nano Research, 2022, 15, 1246-1253.	5.8	43
72	Defective Bimetallic Selenides for Selective CO₂ Electroreduction to CO. Advanced Materials, 2022, 34, e2106354.	11.1	43

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73	Synthesis of Cubic-Shaped Pt Particles with (100) Preferential Orientation by a Quick, One-Step and Clean Electrochemical Method. ACS Applied Materials & Interfaces, 2017, 9, 18856-18864.	4.0	39
74	Self-Assembly of Graphene-Encapsulated Cu Composites for Nonenzymatic Glucose Sensing. ACS Omega, 2018, 3, 3420-3428.	1.6	38
75	Developing Indium-based Ternary Spinel Selenides for Efficient Solid Flexible Zn-Air Batteries and Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 8115-8123.	4.0	38
76	One-step synthesis of the PdPt bimetallic nanodendrites with controllable composition for methanol oxidation reaction. Science China Materials, 2018, 61, 697-706.	3.5	37
77	å¾®çº³ç»“æž„è¿‡æ¡éŠ‡å±žåŒ–å•ç‰©èƒ½æºè½¬åŒ–ç”µå,¬åŒ–å‰‰ç”©è¿›å±•. Science China Materials, 2021, 64, 1-26.	2.1	36
78	Investigation of the Environmental Stability of Poly(vinyl alcohol)â€“KOH Polymer Electrolytes for Flexible Zincâ€“Air Batteries. Frontiers in Chemistry, 2019, 7, 678.	1.8	32
79	Facile synthesis of nickel cobalt selenide hollow nanospheres as efficient bifunctional electrocatalyst for rechargeable Zn-air battery. Science China Materials, 2020, 63, 347-355.	3.5	32
80	Corrosion behavior of X65 steel in seawater containing sulfate reducing bacteria under aerobic conditions. Bioelectrochemistry, 2018, 122, 40-50.	2.4	31
81	Engineering Interface and Oxygen Vacancies of Ni_xCo_{1â€“x}Se₂ to Boost Oxygen Catalysis for Flexible Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2019, 11, 27964-27972.	4.0	31
82	Bimetallic Multiâ€Level Layered Coâ€NiOOH/Ni₃S₂@NF Nanosheet for Hydrogen Evolution Reaction in Alkaline Medium. Small, 2022, 18, e2106904.	5.2	31
83	Recent Progress in Advanced Characterization Methods for Siliconâ€Based Lithiumâ€Ion Batteries. Small Methods, 2019, 3, 1900158.	4.6	30
84	Kirigami-Inspired Flexible and Stretchable Zincâ€“Air Battery Based on Metal-Coated Sponge Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 54833-54841.	4.0	30
85	Mesoporous Graphitic Carbonâ€Encapsulated Fe₂O₃ Nanocomposite as Highâ€Rate Anode Material for Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2018, 24, 14786-14793.	1.7	29
86	Co₃O₄ nanoparticles supported on N-doped electrospinning carbon nanofibers as an efficient and bifunctional oxygen electrocatalyst for rechargeable Znâ€“air batteries. Inorganic Chemistry Frontiers, 2019, 6, 3554-3561.	3.0	29
87	A Design of Taper-Like Etched Multicore Fiber Refractive Index-Insensitive a Temperature Highly Sensitive Mach-Zehnder Interferometer. IEEE Sensors Journal, 2020, 20, 7074-7081.	2.4	29
88	Fiber Optic Hydrogen Sensor Based on Fabryâ€“Perot Interferometer Coated With Sol-Gel Pt/WO₃ Coating. Journal of Lightwave Technology, 2015, 33, 2530-2534.	2.7	28
89	Size- and Density-Controllable Fabrication of the Platinum Nanoparticle/ITO Electrode by Pulse Potential Electrodeposition for Ammonia Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 27765-27772.	4.0	28
90	Engineering Pyrite-Type Bimetallic Ni-Doped CoS2 Nanoneedle Arrays over a Wide Compositional Range for Enhanced Oxygen and Hydrogen Electrocatalysis with Flexible Property. Catalysts, 2017, 7, 366.	1.6	28

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91	Nanomanufacturing of RGOâ€CNT Hybrid Film for Flexible Aqueous Alâ€ion Batteries. Small, 2020, 16, e2002856.	5.2	28
92	Fabrication and properties of a superhydrophobic film on an electroless plated magnesium alloy. RSC Advances, 2017, 7, 28909-28917.	1.7	27
93	Perchlorate ion doped polypyrrole coated ZnS sphere composites as a sodium-ion battery anode with superior rate capability enhanced by pseudocapacitance. RSC Advances, 2017, 7, 43636-43641.	1.7	27
94	Varied hydrogen evolution reaction properties of nickel phosphide nanoparticles with different compositions in acidic and alkaline conditions. Journal of Materials Science, 2017, 52, 804-814.	1.7	27
95	Cobalt sulfides constructed heterogeneous interfaces decorated on N,S-codoped carbon nanosheets as a highly efficient bifunctional oxygen electrocatalyst. Journal of Materials Chemistry A, 2021, 9, 13926-13935.	5.2	27
96	Designing Nanoporous Coralâ€Like Pt Nanowires Architecture for Methanol and Ammonia Oxidation Reactions. Advanced Functional Materials, 2022, 32, .	7.8	27
97	Optical Sensor for Steel Corrosion Monitoring Based on Etched Fiber Bragg Grating Sputtered With Iron Film. IEEE Sensors Journal, 2015, 15, 3551-3556.	2.4	26
98	Porous Zinc Anode Design for Zn-air Chemistry. Frontiers in Chemistry, 2019, 7, 656.	1.8	26
99	Regulating the Catalytically Active Sites in Low-Cost and Earth-Abundant 3d Transition-Metal-Based Electrode Materials for High-Performance Zincâ€“Air Batteries. Energy & Fuels, 2021, 35, 6483-6503.	2.5	26
100	Large-scale and template-free synthesis of hierarchically porous MnCo2O4.5 as anode material for lithium-ion batteries with enhanced electrochemical performance. Journal of Materials Science, 2017, 52, 5268-5282.	1.7	23
101	Highly Active and CO-Tolerant Trimetallic NiPtPd Hollow Nanocrystals as Electrocatalysts for Methanol Electro-oxidation Reaction. ACS Applied Energy Materials, 2019, 2, 4763-4773.	2.5	23
102	NiS/Ni3S2@NiWO4 nanoarrays towards all-solid-state hybrid supercapacitor with record-high energy density. Science China Materials, 2021, 64, 852-860.	3.5	23
103	Dynamic stretchingâ€“electroplating metalâ€coated textile for a flexible and stretchable zincâ€“air battery. , 2022, 4, 867-877.		23
104	Toward Flexible and Wearable Znâ€“Air Batteries from Cotton Textile Waste. ACS Omega, 2019, 4, 19341-19349.	1.6	21
105	Long-Life and Highly Utilized Zinc Anode for Aqueous Batteries Enabled by Electrolyte Additives with Synergistic Effects. ACS Applied Materials & Interfaces, 2022, 14, 18431-18438.	4.0	21
106	Metallic-State MoS₂ Nanosheets with Atomic Modification for Sodium Ion Batteries with a High Rate Capability and Long Lifespan. ACS Applied Materials & Interfaces, 2021, 13, 19894-19903.	4.0	20
107	Enhanced antibacterial properties of biocompatible titanium via electrochemically deposited Ag/TiO₂ nanotubes and chitosanâ€“gelatinâ€“Agâ€“ZnO complex coating. RSC Advances, 2019, 9, 4521-4529.	1.7	19
108	Advanced Characterization Techniques for Identifying the Key Active Sites of Gasâ€Involved Electrocatalysts. Advanced Functional Materials, 2020, 30, 2001704.	7.8	19

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109	Progress and Perspective of Metallic Glasses for Energy Conversion and Storage. Advanced Energy Materials, 2022, 12, .	10.2	19
110	The applications of singleâ€atom alloys in electrocatalysis: Progress and challenges. SmartMat, 2023, 4, .	6.4	19
111	Behavior of gold-enhanced electrocatalytic performance of NiPtAu hollow nanocrystals for alkaline methanol oxidation. Science China Materials, 2021, 64, 611-620.	3.5	18
112	Optical Fiber Polarizer With Feâ€“C Film for Corrosion Monitoring. IEEE Sensors Journal, 2017, 17, 6904-6910.	2.4	17
113	Tapered multicore fiber interferometer for ultra-sensitive temperature sensing with thermo-optical materials. Optics Express, 2021, 29, 35765.	1.7	16
114	Sapphire Fiber High-Temperature Tip Sensor With Multilayer Coating. IEEE Photonics Technology Letters, 2015, 27, 741-743.	1.3	15
115	Combining the Advantages of Hollow and One-Dimensional Structures: Balanced Activity and Stability toward Methanol Oxidation Based on the Interface of PtCo Nanochains. ACS Applied Energy Materials, 2019, 2, 1588-1593.	2.5	15
116	3D Foam Anode and Hydrogel Electrolyte for Highâ€Performance and Stable Flexible Zincâ€“Air Battery. ChemistrySelect, 2020, 5, 8305-8310.	0.7	15
117	Fabrication of the Ni-NiCl2 Composite Cathode Material for Fast-Response Thermal Batteries. Frontiers in Chemistry, 2021, 9, 679231.	1.8	15
118	Single atoms (Pt, Ir and Rh) anchored on activated NiCo LDH for alkaline hydrogen evolution reaction. Chemical Communications, 2022, 58, 8254-8257.	2.2	15
119	Tunable Periodically Ordered Mesoporosity in Palladium Membranes Enables Exceptional Enhancement of Intrinsic Electrocatalytic Activity for Formic Acid Oxidation. Angewandte Chemie, 2020, 132, 5130-5139.	1.6	14
120	Potassium Polyacrylate-Based Gel Polymer Electrolyte for Practical Znâ€“Ni Batteries. ACS Applied Materials & Interfaces, 2022, 14, 22847-22857.	4.0	14
121	Facile High Throughput Wet-Chemical Synthesis Approach Using a Microfluidic-Based Composition and Temperature Controlling Platform. Frontiers in Chemistry, 2020, 8, 579828.	1.8	13
122	Building a Library for Catalysts Research Using Highâ€Throughput Approaches. Advanced Functional Materials, 2022, 32, 2107862.	7.8	13
123	Optical corrosion sensor based on fiber Bragg grating electroplated with Fe-C film. Optical Engineering, 2014, 53, 077104.	0.5	12
124	Spontaneous Synthesis of Silverâ€Nanoparticleâ€Decorated Transitionâ€Metal Hydroxides for Enhanced Oxygen Evolution Reaction. Angewandte Chemie, 2020, 132, 7312-7317.	1.6	12
125	Toward Theoretical Capacity and Superhigh Power Density for Potassiumâ€“Selenium Batteries via Facilitating Reversible Potassiation Kinetics. ACS Applied Materials & Interfaces, 2022, 14, 6828-6840.	4.0	12
126	Ni-Doped Mo₂C Anchored on Graphitized Porous Carbon for Boosting Electrocatalytic N₂ Reduction. ACS Applied Materials & Interfaces, 2022, 14, 17273-17281.	4.0	12

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127	Sandwich nanostructured LiMnPO4/C as enhanced cathode materials for lithium-ion batteries. Journal of Materials Science, 2017, 52, 3597-3612.	1.7	11
128	Zincâ€Air Batteries: Atomic Layer Co₃O₄ Nanosheets: The Key to Knittable Znâ€“Air Batteries (Small 43/2018). Small, 2018, 14, 1870200.	5.2	11
129	Electrocatalysis: Ultrafine Pt Nanoparticleâ€Decorated Pyriteâ€Type CoS₂ Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting (Adv. Energy Mater.) Tj ETQq1 1 0.784314 rgBT /Overlo	19.3	11
130	Tapered multicore fiber interferometer for refractive index sensing with graphene enhancement. Applied Optics, 2020, 59, 3927.	0.9	11
131	Metal Air Batteries: Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis (Adv. Energy Mater. 10/2018). Advanced Energy Materials, 2018, 8, 1870043.	10.2	10
132	Pt Monolayers on Electrodeposited Nanoparticles of Different Compositions for Ammonia Electro-Oxidation. Catalysts, 2019, 9, 4.	1.6	10
133	Scalable Preparation and Improved Discharge Properties of FeS2@CoS2 Cathode Materials for High-Temperature Thermal Battery. Nanomaterials, 2022, 12, 1360.	1.9	10
134	One-Step Fabrication and Localized Electrochemical Characterization of Continuous Al-Alloyed Intermetallic Surface Layer on Magnesium Alloy. Coatings, 2018, 8, 148.	1.2	9
135	2D and 3D Shape Sensing Based on 7-Core Fiber Bragg Gratings. Photonic Sensors, 2020, 10, 306-315.	2.5	9
136	Atmospheric corrosion monitoring of field-exposed Q235B and T91 steels in Zhoushan offshore environment using electrochemical probes. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1433-1440.	0.4	8
137	Effect of Interlayers on Microstructure and Properties of 2205/Q235B Duplex Stainless Steel Clad Plate. Acta Metallurgica Sinica (English Letters), 2020, 33, 679-692.	1.5	8
138	Numerical solution of strongly guided modes propagating in sapphire crystal fibers (Î±-Al2O3) for UV, VIS/IR wave-guiding. Results in Physics, 2020, 18, 103311.	2.0	8
139	Improving Discharge Voltage of Al-Air Batteries by Ga3+ Additives in NaCl-Based Electrolyte. Nanomaterials, 2022, 12, 1336.	1.9	8
140	Studies on the Electrochemical Stability of Preferentially (100)â€Oriented Pt Prepared through Three Different Methods. ChemElectroChem, 2017, 4, 66-74.	1.7	7
141	Influence of Acid Treatment on the Loading and Release Behavior of Halloysite with 2-Mercaptobenzothiazole. Journal of Nanoscience and Nanotechnology, 2019, 19, 7178-7184.	0.9	7
142	Bridge continuous deformation measurement technology based on fiber optic gyro. Photonic Sensors, 2016, 6, 71-77.	2.5	6
143	Nanoporous nickel with rich adsorbed oxygen for efficient alkaline hydrogen evolution electrocatalysis. Science China Materials, 2022, 65, 1825-1832.	3.5	6
144	Hydrothermal synthesis, characterisation and growth mechanism of Ni(SO ₄) _{0.3} (OH) _{1.4} nanowires. Micro and Nano Letters, 2015, 10, 567-572.	0.6	5

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145	Zincâ€“Air Batteries: A Rechargeable Znâ€“Air Battery with High Energy Efficiency and Long Life Enabled by a Highly Waterâ€Retentive Gel Electrolyte with Reaction Modifier (Adv. Mater. 22/2020). Advanced Materials, 2020, 32, 2070172.	11.1	5
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