

Yi-Da Deng

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130
papers

8,429
citations

41
h-index

90
g-index

136
ext. papers

11,073
ext. citations

12
avg, IF

6.62
L-index

#	Paper	IF	Citations
130	A review of electrolyte materials and compositions for electrochemical supercapacitors. <i>Chemical Society Reviews</i> , 2015 , 44, 7484-539	58.5	2002
129	Atomically Dispersed Binary Co-Ni Sites in Nitrogen-Doped Hollow Carbon Nanocubes for Reversible Oxygen Reduction and Evolution. <i>Advanced Materials</i> , 2019 , 31, e1905622	24	340
128	Generation of Nanoparticle, Atomic-Cluster, and Single-Atom Cobalt Catalysts from Zeolitic Imidazole Frameworks by Spatial Isolation and Their Use in Zinc-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5359-5364	16.4	323
127	NiCo ₂ S ₄ nanocrystals anchored on nitrogen-doped carbon nanotubes as a highly efficient bifunctional electrocatalyst for rechargeable zinc-air batteries. <i>Nano Energy</i> , 2017 , 31, 541-550	17.1	290
126	Atomically Thin Mesoporous Co O Layers Strongly Coupled with N-rGO Nanosheets as High-Performance Bifunctional Catalysts for 1D Knittable Zinc-Air Batteries. <i>Advanced Materials</i> , 2018 , 30, 1703657	24	233
125	Sub-3 nm Co ₃ O ₄ nanofilms with enhanced supercapacitor properties. <i>ACS Nano</i> , 2015 , 9, 1730-9	16.7	222
124	Identifying the Activation of Bimetallic Sites in NiCo S @g-C N -CNT Hybrid Electrocatalysts for Synergistic Oxygen Reduction and Evolution. <i>Advanced Materials</i> , 2019 , 31, e1808281	24	221
123	Ultrathin Co ₃ O ₄ Layers with Large Contact Area on Carbon Fibers as High-Performance Electrode for Flexible Zinc-Air Battery Integrated with Flexible Display. <i>Advanced Energy Materials</i> , 2017 , 7, 1700779	21.8	218
122	Ultrafine Pt Nanoparticle-Decorated Pyrite-Type CoS ₂ Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1800935	21.8	217
121	Decoupling electrolytes towards stable and high-energy rechargeable aqueous zinc-manganese dioxide batteries. <i>Nature Energy</i> , 2020 , 5, 440-449	62.3	203
120	Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1702222	21.8	182
119	Phase and composition controlled synthesis of cobalt sulfide hollow nanospheres for electrocatalytic water splitting. <i>Nanoscale</i> , 2018 , 10, 4816-4824	7.7	165
118	Identifying Dense NiSe /CoSe Heterointerfaces Coupled with Surface High-Valence Bimetallic Sites for Synergistically Enhanced Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2020 , 32, e2000607	24	143
117	Unravelling the reaction chemistry and degradation mechanism in aqueous Zn/MnO ₂ rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5733-5739	13	132
116	Morphology-Controllable Synthesis of Zn-Co-Mixed Sulfide Nanostructures on Carbon Fiber Paper Toward Efficient Rechargeable Zinc-Air Batteries and Water Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12574-12583	9.5	116
115	Porous nanocomposite gel polymer electrolyte with high ionic conductivity and superior electrolyte retention capability for long-cycle-life flexible zinc-air batteries. <i>Nano Energy</i> , 2019 , 56, 454-462	17.1	116
114	Electrodeposition of metals and alloys from ionic liquids. <i>Journal of Alloys and Compounds</i> , 2016 , 654, 163-170	5.7	114

113	Metal-Air Batteries: From Static to Flow System. <i>Advanced Energy Materials</i> , 2018 , 8, 1801396	21.8	104
112	Spontaneous Synthesis of Silver-Nanoparticle-Decorated Transition-Metal Hydroxides for Enhanced Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7245-7250	16.4	103
111	Utilizing solar energy to improve the oxygen evolution reaction kinetics in zinc-air battery. <i>Nature Communications</i> , 2019 , 10, 4767	17.4	101
110	Clarifying the Controversial Catalytic Performance of Co(OH) and CoO for Oxygen Reduction/Evolution Reactions toward Efficient Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22694-22703	9.5	97
109	Sequential Electrodeposition of Bifunctional Catalytically Active Structures in MoO ₃ /Ni-NiO Composite Electrocatalysts for Selective Hydrogen and Oxygen Evolution. <i>Advanced Materials</i> , 2020 , 32, e2003414	24	95
108	Electrochemical approach to prepare integrated air electrodes for highly stretchable zinc-air battery array with tunable output voltage and current for wearable electronics. <i>Nano Energy</i> , 2017 , 39, 101-110	17.1	91
107	Controllable synthesis of nickel sulfide nanocatalysts and their phase-dependent performance for overall water splitting. <i>Nanoscale</i> , 2019 , 11, 5646-5654	7.7	90
106	Generation of Nanoparticle, Atomic-Cluster, and Single-Atom Cobalt Catalysts from Zeolitic Imidazole Frameworks by Spatial Isolation and Their Use in Zinc-Air Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 5413-5418	3.6	82
105	Controllable Synthesis of Ni ₂ Se (0.5 \times 0.5) Nanocrystals for Efficient Rechargeable Zinc-Air Batteries and Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13675-13684	9.5	80
104	Lattice-Strain Engineering of Homogeneous NiS ₂ Se Core-Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2020 , 32, e2000231	24	79
103	A Rechargeable Zn-Air Battery with High Energy Efficiency and Long Life Enabled by a Highly Water-Retentive Gel Electrolyte with Reaction Modifier. <i>Advanced Materials</i> , 2020 , 32, e1908127	24	79
102	Ultrathin CoO nanofilm as an efficient bifunctional catalyst for oxygen evolution and reduction reaction in rechargeable zinc-air batteries. <i>Nanoscale</i> , 2017 , 9, 8623-8630	7.7	77
101	Shape-Controlled Synthesis of Palladium Single-Crystalline Nanoparticles: The Effect of HCl Oxidative Etching and Facet-Dependent Catalytic Properties. <i>Chemistry of Materials</i> , 2014 , 26, 1213-1218	9.6	77
100	NiO-induced synthesis of PdNi bimetallic hollow nanocrystals with enhanced electrocatalytic activities toward ethanol and formic acid oxidation. <i>Nano Energy</i> , 2017 , 42, 353-362	17.1	76
99	Battery Technologies for Grid-Level Large-Scale Electrical Energy Storage. <i>Transactions of Tianjin University</i> , 2020 , 26, 92-103	2.9	65
98	In Situ Fabrication of Heterostructure on Nickel Foam with Tuned Composition for Enhancing Water-Splitting Performance. <i>Small</i> , 2018 , 14, e1803666	11	62
97	Pt-Decorated highly porous flower-like Ni particles with high mass activity for ammonia electro-oxidation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11060-11068	13	59
96	Dislocation-Strained IrNi Alloy Nanoparticles Driven by Thermal Shock for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2020 , 32, e2006034	24	56

95	Engineering the Surface Metal Active Sites of Nickel Cobalt Oxide Nanoplates toward Enhanced Oxygen Electrocatalysis for Zn-Air Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4915-4921	9.5	56
94	Electrochemical Oxidation of Chlorine-Doped Co(OH) Nanosheet Arrays on Carbon Cloth as a Bifunctional Oxygen Electrode. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 796-805	9.5	56
93	Atomic Layer Co O Nanosheets: The Key to Knittable Zn-Air Batteries. <i>Small</i> , 2018 , 14, e1702987	11	51
92	Long-Shelf-Life Polymer Electrolyte Based on Tetraethylammonium Hydroxide for Flexible Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28909-28917	9.5	47
91	Nanosheets assembled into nickel sulfide nanospheres with enriched Ni ³⁺ active sites for efficient water-splitting and zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23787-23793	13	46
90	In Situ Electrodeposition of Cobalt Sulfide Nanosheet Arrays on Carbon Cloth as a Highly Efficient Bifunctional Electrocatalyst for Oxygen Evolution and Reduction Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30433-30440	9.5	41
89	High-Temperature Shock Enabled Nanomanufacturing for Energy-Related Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 2001331	21.8	41
88	Enhanced light harvesting and electron-hole separation for efficient photocatalytic hydrogen evolution over Cu ₇ S ₄ -wrapped Cu ₂ O nanocubes. <i>Applied Catalysis B: Environmental</i> , 2019 , 246, 202-210	21.8	41
87	Hierarchical iridium-based multimetallic alloy with double-core-shell architecture for efficient overall water splitting. <i>Science China Materials</i> , 2020 , 63, 249-257	7.1	39
86	Shape-controlled synthesis of Pt-Ir nanocubes with preferential (100) orientation and their unusual enhanced electrocatalytic activities. <i>Science China Materials</i> , 2014 , 57, 13-25	7.1	38
85	Controllable synthesis of Co ₂ P nanorods as high-efficiency bifunctional electrocatalyst for overall water splitting. <i>Journal of Power Sources</i> , 2018 , 402, 345-352	8.9	37
84	Carbon-based cathode materials for rechargeable zinc-air batteries: From current collectors to bifunctional integrated air electrodes 2020 , 2, 370-386		35
83	Interface engineering of NiS ₂ /CoS ₂ nanohybrids as bifunctional electrocatalysts for rechargeable solid state Zn-air battery. <i>Journal of Power Sources</i> , 2019 , 437, 226893	8.9	34
82	Three-dimensional ordered macroporous Cu current collector for lithium metal anode: Uniform nucleation by seed crystal. <i>Journal of Power Sources</i> , 2018 , 403, 82-89	8.9	34
81	Stable heteroepitaxial interface of Li-rich layered oxide cathodes with enhanced lithium storage. <i>Energy Storage Materials</i> , 2019 , 21, 69-76	19.4	33
80	Electrodeposition of alloys and compounds from high-temperature molten salts. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 228-238	5.7	32
79	Acceptor-Doping Accelerated Charge Separation in Cu ₂ O Photocathode for Photoelectrochemical Water Splitting: Theoretical and Experimental Studies. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18463-18467	16.4	31
78	Thermal Shock-Activated Spontaneous Growing of Nanosheets for Overall Water Splitting. <i>Nano-Micro Letters</i> , 2020 , 12, 162	19.5	31

77	A one-step, clean, capping-agent-free electrochemical approach to prepare Pt nanoparticles with preferential (100) orientation and their high electrocatalytic activities. <i>Electrochemistry Communications</i> , 2015 , 58, 6-10	5.1	29
76	Engineering the Metal/Oxide Interface of Pd Nanowire@CuO Electrocatalysts for Efficient Alcohol Oxidation Reaction. <i>Small</i> , 2020 , 16, e1904964	11	29
75	Long-battery-life flexible zinc-air battery with near-neutral polymer electrolyte and nanoporous integrated air electrode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25449-25457	13	29
74	Inversely Tuning the CO Electroreduction and Hydrogen Evolution Activity on Metal Oxide via Heteroatom Doping. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7602-7606	16.4	29
73	Pt embedded Ni ₃ Se ₂ @NiOOH core-shell dendrite-like nanoarrays on nickel as bifunctional electrocatalysts for overall water splitting. <i>Science China Materials</i> , 2019 , 62, 1096-1104	7.1	28
72	One-step synthesis of the PdPt bimetallic nanodendrites with controllable composition for methanol oxidation reaction. <i>Science China Materials</i> , 2018 , 61, 697-706	7.1	28
71	Low-temperature strategy toward Ni-NC@Ni core-shell nanostructure with Single-Ni sites for efficient CO ₂ electroreduction. <i>Nano Energy</i> , 2020 , 77, 105010	17.1	28
70	Improving the Electrocatalytic Activity of Pt Monolayer Catalysts for Electrooxidation of Methanol, Ethanol and Ammonia by Tailoring the Surface Morphology of the Supporting Core. <i>ChemElectroChem</i> , 2016 , 3, 537-551	4.3	28
69	Synthesis of Cubic-Shaped Pt Particles with (100) Preferential Orientation by a Quick, One-Step and Clean Electrochemical Method. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18856-18864	9.5	27
68	Improved catalytic performance of Pt/TiO ₂ nanotubes electrode for ammonia oxidation under UV-light illumination. <i>Electrochimica Acta</i> , 2014 , 150, 146-150	6.7	27
67	Phase and composition controllable synthesis of nickel phosphide-based nanoparticles via a low-temperature process for efficient electrocatalytic hydrogen evolution. <i>Electrochimica Acta</i> , 2017 , 258, 866-875	6.7	25
66	Developing Indium-based Ternary Spinel Selenides for Efficient Solid Flexible Zn-Air Batteries and Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8115-8123	9.5	23
65	Engineering Pyrite-Type Bimetallic Ni-Doped CoS ₂ Nanoneedle Arrays over a Wide Compositional Range for Enhanced Oxygen and Hydrogen Electrocatalysis with Flexible Property. <i>Catalysts</i> , 2017 , 7, 366	4	23
64	Air-Assisted Transient Synthesis of Metastable Nickel Oxide Boosting Alkaline Fuel Oxidation Reaction. <i>Advanced Energy Materials</i> , 2020 , 10, 2001397	21.8	23
63	Tungsten disulfide-based nanomaterials for energy conversion and storage. <i>Tungsten</i> , 2020 , 2, 109-133	4.6	21
62	Encapsulating Cobalt Nanoparticles in Interconnected N-Doped Hollow Carbon Nanofibers with Enriched Co ₂ N ₂ C Moiety for Enhanced Oxygen Electrocatalysis in Zn-Air Batteries. <i>Advanced Science</i> , 2021 , 8, e2101438	13.6	21
61	Size- and Density-Controllable Fabrication of the Platinum Nanoparticle/ITO Electrode by Pulse Potential Electrodeposition for Ammonia Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27765-27772	9.5	20
60	Regulated synthesis of Eutectic Ni ₃ S ₂ /NiS nanorods for quasi-solid-state hybrid supercapacitors with high energy density. <i>Journal of Power Sources</i> , 2021 , 482, 228910	8.9	20

59	Varied hydrogen evolution reaction properties of nickel phosphide nanoparticles with different compositions in acidic and alkaline conditions. <i>Journal of Materials Science</i> , 2017 , 52, 804-814	4.3	19
58	Co ₃ O ₄ nanoparticles supported on N-doped electrospinning carbon nanofibers as an efficient and bifunctional oxygen electrocatalyst for rechargeable Zn air batteries. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 3554-3561	6.8	19
57	Pyrite-Type CoS Nanoparticles Supported on Nitrogen-Doped Graphene for Enhanced Water Splitting. <i>Frontiers in Chemistry</i> , 2018 , 6, 569	5	19
56	Highly Active and CO-Tolerant Trimetallic NiPtPd Hollow Nanocrystals as Electrocatalysts for Methanol Electro-oxidation Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4763-4773	6.1	18
55	Charge redistribution of Co on cobalt (II) oxide surface for enhanced oxygen evolution electrocatalysis. <i>Nano Energy</i> , 2019 , 61, 267-274	17.1	18
54	Highly Active and Durable Single-Atom Tungsten-Doped NiS Se Nanosheet@NiS Se Nanorod Heterostructures for Water Splitting.. <i>Advanced Materials</i> , 2022 , e2107053	24	18
53	Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006461	24	18
52	Recent progresses of micro-nanostructured transition metal compound-based electrocatalysts for energy conversion technologies. <i>Science China Materials</i> , 2021 , 64, 1-26	7.1	17
51	Investigation of the Environmental Stability of Poly(vinyl alcohol)-KOH Polymer Electrolytes for Flexible Zinc-Air Batteries. <i>Frontiers in Chemistry</i> , 2019 , 7, 678	5	15
50	Hollow Co ₃ O ₄ microspheres with nano-sized shells: one-step large-scale synthesis, growth mechanism and supercapacitor properties. <i>RSC Advances</i> , 2015 , 5, 42055-42062	3.7	14
49	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. <i>Batteries and Supercaps</i> , 2020 , 3, 1262-1274	5.6	14
48	Kirigami-Inspired Flexible and Stretchable Zinc-Air Battery Based on Metal-Coated Sponge Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54833-54841	9.5	14
47	Porous Zinc Anode Design for Zn-air Chemistry. <i>Frontiers in Chemistry</i> , 2019 , 7, 656	5	13
46	Atomically Dispersed Selenium Sites on Nitrogen-Doped Carbon for Efficient Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	13
45	Powder metallurgy synthesis of porous Ni-Fe alloy for oxygen evolution reaction and overall water splitting. <i>Journal of Materials Science and Technology</i> , 2020 , 37, 154-160	9.1	13
44	Enhanced antibacterial properties of biocompatible titanium electrochemically deposited Ag/TiO nanotubes and chitosan-gelatin-Ag-ZnO complex coating.. <i>RSC Advances</i> , 2019 , 9, 4521-4529	3.7	12
43	Surface/interface engineering of noble-metals and transition metal-based compounds for electrocatalytic applications. <i>Journal of Materials Science and Technology</i> , 2020 , 38, 221-236	9.1	12
42	Size-controllable synthesis and high-performance formic acid oxidation of polycrystalline Pd nanoparticles. <i>Rare Metals</i> , 2019 , 38, 115-121	5.5	12

41	Combining the Advantages of Hollow and One-Dimensional Structures: Balanced Activity and Stability toward Methanol Oxidation Based on the Interface of PtCo Nanochains. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1588-1593	6.1	11
40	Advanced Characterization Techniques for Identifying the Key Active Sites of Gas-Involved Electrocatalysts. <i>Advanced Functional Materials</i> , 2020 , 30, 2001704	15.6	11
39	Controlled Synthesis of Ni-Doped MoS Hybrid Electrode for Synergistically Enhanced Water-Splitting Process. <i>Chemistry - A European Journal</i> , 2019 , 26, 4097	4.8	11
38	Multiple Twin Boundary-Regulated Metastable Pd for Ethanol Oxidation Reaction. <i>Advanced Energy Materials</i> , 2103505	21.8	11
37	Extreme Environmental Thermal Shock Induced Dislocation-Rich Pt Nanoparticles Boosting Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2021 , 34, e2106973	24	11
36	Ultrafast Synthesis for Functional Nanomaterials. <i>Cell Reports Physical Science</i> , 2021 , 2, 100302	6.1	11
35	Millisecond Conversion of Photovoltaic Silicon Waste to Binder-Free High Silicon Content Nanowires Electrodes. <i>Advanced Energy Materials</i> , 2021 , 11, 2102103	21.8	11
34	Spontaneous Synthesis of Silver-Nanoparticle-Decorated Transition-Metal Hydroxides for Enhanced Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 7312-7317	3.6	10
33	Toward Flexible and Wearable Zn-Air Batteries from Cotton Textile Waste. <i>ACS Omega</i> , 2019 , 4, 19341-19349	3.49	10
32	Metallic-State MoS Nanosheets with Atomic Modification for Sodium Ion Batteries with a High Rate Capability and Long Lifespan. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19894-19903	9.5	10
31	A review of non-noble metal-based electrocatalysts for CO ₂ electroreduction. <i>Rare Metals</i> , 2021 , 40, 3019	5.5	10
30	Cobalt sulfides constructed heterogeneous interfaces decorated on N,S-codoped carbon nanosheets as a highly efficient bifunctional oxygen electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13926-13935	13	10
29	Arrayed nanopore silver thin films for surface-enhanced Raman scattering.. <i>RSC Advances</i> , 2020 , 10, 23908-23915	3.7	10
28	Regulating the Catalytically Active Sites in Low-Cost and Earth-Abundant 3d Transition-Metal-Based Electrode Materials for High-Performance Zinc-Air Batteries. <i>Energy & Fuels</i> , 2021 , 35, 6483-6503	4.1	9
27	Understanding the Gap between Academic Research and Industrial Requirements in Rechargeable Zinc-Ion Batteries. <i>Batteries and Supercaps</i> , 2021 , 4, 60-71	5.6	9
26	Development of Metal and Metal-Based Composites Anode Materials for Potassium-Ion Batteries. <i>Transactions of Tianjin University</i> , 2021 , 27, 248-268	2.9	9
25	3D Foam Anode and Hydrogel Electrolyte for High-Performance and Stable Flexible Zinc-Air Battery. <i>ChemistrySelect</i> , 2020 , 5, 8305-8310	1.8	8
24	Promoting the charge separation and photoelectrocatalytic water reduction kinetics of Cu ₂ O nanowires via decorating dual-cocatalysts. <i>Journal of Materials Science and Technology</i> , 2021 , 62, 119-127	9.1	7

23	Mass production of high-performance single atomic FeNC electrocatalysts via sequenced ultrasonic atomization and pyrolysis process. <i>Science China Materials</i> , 2021 , 64, 631-641	7.1	7
22	Engineering cobalt sulfide/oxide heterostructure with atomically mixed interfaces for synergistic electrocatalytic water splitting. <i>Nano Research</i> , 1	10	7
21	Defective Bimetallic Selenides for Selective CO Electroreduction to CO. <i>Advanced Materials</i> , 2021 , e2106254	2.5	6
20	Inversely Tuning the CO ₂ Electroreduction and Hydrogen Evolution Activity on Metal Oxide via Heteroatom Doping. <i>Angewandte Chemie</i> , 2021 , 133, 7680-7684	3.6	6
19	Regulating metal active sites of atomically-thin nickel-doped spinel cobalt oxide toward enhanced oxygen electrocatalysis. <i>Chemical Engineering Journal</i> , 2022 , 435, 134261	14.7	5
18	Metal chalcogenides: An emerging material for electrocatalysis. <i>APL Materials</i> , 2021 , 9, 050902	5.7	5
17	Pt Monolayers on Electrodeposited Nanoparticles of Different Compositions for Ammonia Electro-Oxidation. <i>Catalysts</i> , 2019 , 9, 4	4	5
16	Bimetallic Multi-Level Layered Co-NiOOH/Ni S @NF Nanosheet for Hydrogen Evolution Reaction in Alkaline Medium.. <i>Small</i> , 2022 , e2106904	11	5
15	Rational Design and Spontaneous Sulfurization of NiCo-(oxy)Hydroxysulfides Nanosheets with Modulated Local Electronic Configuration for Enhancing Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2103275	21.8	5
14	Investigation of failure mechanism of rechargeable zinc-air batteries with poly(acrylic acid) alkaline gel electrolyte during discharge-charge cycles at different current densities. <i>Chemical Engineering Journal</i> , 2022 , 429, 132331	14.7	4
13	Hydrothermal synthesis, characterisation and growth mechanism of Ni(SO ₄) _{0.3} (OH) _{1.4} nanowires. <i>Micro and Nano Letters</i> , 2015 , 10, 567-572	0.9	3
12	Progress and Perspective of Metallic Glasses for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2101092	21.8	3
11	Controlled Synthesis and Structure Engineering of Transition Metal-based Nanomaterials for Oxygen and Hydrogen Electrocatalysis in Zinc-Air Battery and Water-Splitting Devices. <i>ChemSusChem</i> , 2021 , 14, 1659-1673	8.3	3
10	Nano-manufacturing of Co(OH) ₂ @NC for efficient oxygen evolution/reduction reactions. <i>Journal of Materials Science and Technology</i> , 2021 , 81, 131-138	9.1	3
9	A Solution-based Method for Synthesizing Pyrite-type Ferrous Metal Sulfide Microspheres with Efficient OER Activity. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2231-2238	4.5	2
8	Acceptor-Doping Accelerated Charge Separation in Cu ₂ O Photocathode for Photoelectrochemical Water Splitting: Theoretical and Experimental Studies. <i>Angewandte Chemie</i> , 2020 , 132, 18621-18625	3.6	2
7	Zinc-Air Batteries: Atomically Thin Mesoporous Co ₃ O ₄ Layers Strongly Coupled with N-rGO Nanosheets as High-Performance Bifunctional Catalysts for 1D Knittable Zinc-Air Batteries (Adv. Mater. 4/2018). <i>Advanced Materials</i> , 2018 , 30, 1870027	24	2
6	Preparation and Thermal Conductivity of Epoxy Resin/Graphene-FeO Composites. <i>Materials</i> , 2021 , 14,	3.5	1

- 5 Finite-Element Analysis on Percolation Performance of Foam Zinc. *ACS Omega*, **2018**, 3, 11018-11025 3.9 1
- 4 Preparation and Mechanical Properties of Layered Cu/Gr Composite Film. *Coatings*, **2021**, 11, 502 2.9 0
- 3 Ir Single Atoms Doped Cuboctahedral Pd for Boosted Methanol Oxidation Reaction. *Particle and Particle Systems Characterization*, 2200013 3.1 0
- 2 Regeneration of spent cathodes of Li-ion batteries into multifunctional electrodes for overall water splitting and rechargeable Zn-air batteries by ultrafast carbothermal shock. *Science China Materials*, 1 7.1 0
- 1 Development and Challenges of Biphasic Membrane-Less Redox Batteries.. *Advanced Science*, **2022**, e2105468 10.5 0