Ya Yan

List of Publications by Year
in descending order

74 papers	11,665 citations	61857 43 h-index	74018 75 g-index
76 all docs	76 docs citations	76 times ranked	13832 citing authors

#	Article	IF	Citations
1	In-situ transformed trimetallic metal-organic frameworks as an efficient pre-catalyst for electrocatalytic oxygen evolution. Nano Research, 2023, 16, 3672-3679.	5.8	11
2	Reinforced Layered Double Hydroxide Oxygenâ€Evolution Electrocatalysts: A Polyoxometallic Acid Wetâ€Etching Approach and Synergistic Mechanism. Advanced Materials, 2022, 34, e2110696.	11.1	57
3	Recent Progress on NiFeâ€Based Electrocatalysts for Alkaline Oxygen Evolution. Advanced Sustainable Systems, 2021, 5, .	2.7	50
4	V2O5/vertically-aligned carbon nanotubes as negative electrode for asymmetric supercapacitor in neutral aqueous electrolyte. Journal of Colloid and Interface Science, 2021, 588, 847-856.	5.0	75
5	Preparation of electro-reduced graphene oxide/copper composite foils with simultaneously enhanced thermal and mechanical properties by DC electro-deposition method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 805, 140574.	2.6	25
6	Controllable synthesis of multidimensional carboxylic acid-based NiFe MOFs as efficient electrocatalysts for oxygen evolution. Materials Chemistry Frontiers, 2021, 5, 7191-7198.	3.2	30
7	Recent Advances on MOF Derivatives for Non-Noble Metal Oxygen Electrocatalysts in Zinc-Air Batteries. Nano-Micro Letters, 2021, 13, 137.	14.4	84
8	A Zeolitic-Imidazole Framework-Derived Trifunctional Electrocatalyst for Hydrazine Fuel Cells. ACS Nano, 2021, 15, 10286-10295.	7.3	33
9	N and Mn dual-doped cactus-like cobalt oxide nanoarchitecture derived from cobalt carbonate hydroxide as efficient electrocatalysts for oxygen evolution reactions. Journal of Colloid and Interface Science, 2021, 597, 361-369.	5.0	25
10	Airâ€Stable Mn doped CuCl/CuO Hybrid Triquetrous Nanoarrays as Bifunctional Electrocatalysts for Overall Water Splitting. Chemistry - an Asian Journal, 2021, 16, 3107-3113.	1.7	9
11	Direct integration of ultralow-platinum alloy into nanocarbon architectures for efficient oxygen reduction in fuel cells. Science Bulletin, 2021, 66, 2207-2216.	4.3	49
12	Local spin-state tuning of cobaltâ€“iron selenide nanoframes for the boosted oxygen evolution. Energy and Environmental Science, 2021, 14, 365-373.	15.6	159
13	In situ ion-exchange preparation and topological transformation of trimetalâ€“organic frameworks for efficient electrocatalytic water oxidation. Energy and Environmental Science, 2021, 14, 6546-6553.	15.6	72
14	2D Nitrogenâ€Doped Carbon Nanotubes/Graphene Hybrid as Bifunctional Oxygen Electrocatalyst for Longâ€Life Rechargeable Znâ€“Air Batteries. Advanced Functional Materials, 2020, 30, 1906081.	7.8	190
15	Plasma-assisted synthesis of hierarchical NiCoxPy nanosheets as robust and stable electrocatalyst for hydrogen evolution reaction in both acidic and alkaline media. Electrochimica Acta, 2020, 331, 135431.	2.6	26
16	Molybdenumâ€tungsten Oxide Nanowires Rich in Oxygen Vacancies as An Advanced Electrocatalyst for Hydrogen Evolution. Chemistry - an Asian Journal, 2020, 15, 2984-2991.	1.7	14
17	Metalâ€“organic framework-derived hierarchical ultrathin CoP nanosheets for overall water splitting. Journal of Materials Chemistry A, 2020, 8, 19254-19261.	5.2	111
18	Fabrication of Cu/graphite film/Cu sandwich composites with ultrahigh thermal conductivity for thermal management applications. Frontiers of Materials Science, 2020, 14, 188-197.	1.1	8

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19	A Zeoliticâ€Imidazole Frameworksâ€Derived Interconnected Macroporous Carbon Matrix for Efficient Oxygen Electrocatalysis in Rechargeable Zincâ€“Air Batteries. Advanced Materials, 2020, 32, e2002170.	11.1	240
20	Metalâ€“organic framework-derived cupric oxide polycrystalline nanowires for selective carbon dioxide electroreduction to C2 valuables. Journal of Materials Chemistry A, 2020, 8, 12418-12423.	5.2	38
21	Hierarchical Mo-doped CoP₃ interconnected nanosheet arrays on carbon cloth as an efficient bifunctional electrocatalyst for water splitting in an alkaline electrolyte. Dalton Transactions, 2020, 49, 5563-5572.	1.6	30
22	Bifunctional nickel ferrite-decorated carbon nanotube arrays as free-standing air electrode for rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 5070-5077.	5.2	43
23	Fe-Doped Niâ€“Co Phosphide Nanoplates with Planar Defects as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. ACS Sustainable Chemistry and Engineering, 2020, 8, 7436-7444.	3.2	103
24	Surface evolution and reconstruction of oxygen-abundant FePi/NiFeP synergy in NiFe phosphides for efficient water oxidation. Journal of Materials Chemistry A, 2019, 7, 18925-18931.	5.2	37
25	An approach to prepare uniform graphene oxide/aluminum composite powders by simple electrostatic interaction in water/alcohol solution. Frontiers of Materials Science, 2019, 13, 375-381.	1.1	1
26	Defective crystalline molybdenum phosphides as bifunctional catalysts for hydrogen evolution and hydrazine oxidation reactions during water splitting. Inorganic Chemistry Frontiers, 2019, 6, 2686-2695.	3.0	27
27	Engineering of molybdenum sulfide nanostructures towards efficient electrocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 15009-15016.	3.8	21
28	Ultrasmall Co2P2O7 nanocrystals anchored on nitrogen-doped graphene as efficient electrocatalysts for the oxygen reduction reaction. New Journal of Chemistry, 2019, 43, 6492-6499.	1.4	13
29	Energy-saving hydrogen production coupling urea oxidation over a bifunctional nickel-molybdenum nanotube array. Nano Energy, 2019, 60, 894-902.	8.2	250
30	Supercritical CO2-Assisted synthesis of NiFe2O4/vertically-aligned carbon nanotube arrays hybrid as a bifunctional electrocatalyst for efficient overall water splitting. Carbon, 2019, 145, 201-208.	5.4	70
31	Graphene oxide/Al composites with enhanced mechanical properties fabricated by simple electrostatic interaction and powder metallurgy. Journal of Alloys and Compounds, 2019, 775, 233-240.	2.8	39
32	Millimeterâ€Long Vertically Aligned Carbonâ€Nanotubeâ€•Supported Co₃O₄ Composite Electrode for Highâ€Performance Asymmetric Supercapacitor. ChemElectroChem, 2018, 5, 1394-1400.	1.7	32
33	Anodic Hydrazine Oxidation Assists Energyâ€Efficient Hydrogen Evolution over a Bifunctional Cobalt Perselenide Nanosheet Electrode. Angewandte Chemie, 2018, 130, 7775-7779.	1.6	48
34	Nitrogen-doped graphene-supported molybdenum dioxide electrocatalysts for oxygen reduction reaction. Journal of Materials Science, 2018, 53, 6124-6134.	1.7	11
35	Bio-inspired design of hierarchical FeP nanostructure arrays for the hydrogen evolution reaction. Nano Research, 2018, 11, 3537-3547.	5.8	78
36	Anodic Hydrazine Oxidation Assists Energyâ€Efficient Hydrogen Evolution over a Bifunctional Cobalt Perselenide Nanosheet Electrode. Angewandte Chemie - International Edition, 2018, 57, 7649-7653.	7.2	352

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37	Quasiâ€Emulsion Confined Synthesis of Edgeâ€Rich Ultrathin MoS₂ Nanosheets/Graphene Hybrid for Enhanced Hydrogen Evolution. Chemistry - A European Journal, 2018, 24, 556-560.	1.7	55
38	Investigation on surface layer characteristics of shot peened graphene reinforced Al composite by X-ray diffraction method. Applied Surface Science, 2018, 435, 1257-1264.	3.1	38
39	Synthesis of amorphous boride nanosheets by the chemical reduction of Prussian blue analogs for efficient water electrolysis. Journal of Materials Chemistry A, 2018, 6, 23289-23294.	5.2	73
40	Chainmail catalyst of ultrathin P-doped carbon shell-encapsulated nickel phosphides on graphene towards robust and efficient hydrogen generation. Journal of Materials Chemistry A, 2018, 6, 24107-24113.	5.2	44
41	Analysis of recrystallization behavior of shot peened graphene reinforced Al composites during isothermal annealing by X-ray diffraction method. Journal of Alloys and Compounds, 2018, 765, 862-868.	2.8	13
42	Metal/covalentâ€“organic frameworks-based electrocatalysts for water splitting. Journal of Materials Chemistry A, 2018, 6, 15905-15926.	5.2	258
43	In situ formation of Ni₃Se₄ nanorod arrays as versatile electrocatalysts for electrochemical oxidation reactions in hybrid water electrolysis. Journal of Materials Chemistry A, 2018, 6, 15653-15658.	5.2	84
44	Three-dimensional porous graphene/nickel cobalt mixed oxide composites for high-performance hybrid supercapacitor. Ceramics International, 2018, 44, 21848-21854.	2.3	24
45	A two-step approach to synthesis of Co(OH)2/Î³-NiOOH/reduced graphene oxide nanocomposite for high performance supercapacitors. Frontiers of Materials Science, 2018, 12, 273-282.	1.1	3
46	Heterogeneous Electrocatalyst with Molecular Cobalt Ions Serving as the Center of Active Sites. Journal of the American Chemical Society, 2017, 139, 1878-1884.	6.6	129
47	Co(OH)2 nanoflakes grown on 3D graphene foam as a binder-free hybrid electrode for high-performance supercapacitors. Journal of Materials Science: Materials in Electronics, 2017, 28, 7884-7891.	1.1	12
48	Molybdenum Carbideâ€Based Electrocatalysts for Hydrogen Evolution Reaction. Chemistry - A European Journal, 2017, 23, 10947-10961.	1.7	267
49	Frontispiece: Molybdenum Carbideâ€Based Electrocatalysts for Hydrogen Evolution Reaction. Chemistry - A European Journal, 2017, 23, .	1.7	0
50	Cobalt sulfide supported on nitrogen and sulfur dual-doped reduced graphene oxide for highly active oxygen reduction reaction. RSC Advances, 2017, 7, 50246-50253.	1.7	32
51	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. Nano Energy, 2016, 30, 368-378.	8.2	229
52	Assembling pore-rich FeP nanorods on the CNT backbone as an advanced electrocatalyst for oxygen evolution. Journal of Materials Chemistry A, 2016, 4, 13005-13010.	5.2	82
53	A metalâ€“organic framework-derived bifunctional oxygenÂelectrocatalyst. Nature Energy, 2016, 1, .	19.8	1,974
54	A review on noble-metal-free bifunctional heterogeneous catalysts for overall electrochemical water splitting. Journal of Materials Chemistry A, 2016, 4, 17587-17603.	5.2	1,037

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55	Fe₂O₃-decorated millimeter-long vertically aligned carbon nanotube arrays as advanced anode materials for asymmetric supercapacitors with high energy and power densities. Journal of Materials Chemistry A, 2016, 4, 19026-19036.	5.2	62
56	Amino acid modified copper electrodes for the enhanced selective electroreduction of carbon dioxide towards hydrocarbons. Energy and Environmental Science, 2016, 9, 1687-1695.	15.6	290
57	Construction of Efficient 3D Gas Evolution Electrocatalyst for Hydrogen Evolution: Porous FeP Nanowire Arrays on Graphene Sheets. Advanced Science, 2015, 2, 1500120.	5.6	163
58	A Flexible Electrode Based on Iron Phosphide Nanotubes for Overall Water Splitting. Chemistry - A European Journal, 2015, 21, 18062-18067.	1.7	228
59	Oneâ€Pot Synthesis of Ptâ€“Co Alloy Nanowire Assemblies with Tunable Composition and Enhanced Electrocatalytic Properties. Angewandte Chemie - International Edition, 2015, 54, 3797-3801.	7.2	407
60	Vertically oriented MoS₂ and WS₂ nanosheets directly grown on carbon cloth as efficient and stable 3-dimensional hydrogen-evolving cathodes. Journal of Materials Chemistry A, 2015, 3, 131-135.	5.2	254
61	Facile Synthesis of 3â€‰D Platinum Dendrites with a Clean Surface as Highly Stable Electrocatalysts. ChemCatChem, 2014, 6, 1538-1542.	1.8	8
62	Investigation of molybdenum carbide nano-rod as an efficient and durable electrocatalyst for hydrogen evolution in acidic and alkaline media. Applied Catalysis B: Environmental, 2014, 154-155, 232-237.	10.8	183
63	Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. ACS Catalysis, 2014, 4, 1693-1705.	5.5	769
64	Oneâ€Pot Synthesis of Platinum Nanocubes on Reduced Graphene Oxide with Enhanced Electrocatalytic Activity. Small, 2014, 10, 2336-2339.	5.2	47
65	Hierarchical MoS₂microboxes constructed by nanosheets with enhanced electrochemical properties for lithium storage and water splitting. Energy and Environmental Science, 2014, 7, 3302-3306.	15.6	471
66	Recent progress on graphene-based hybrid electrocatalysts. Materials Horizons, 2014, 1, 379-399.	6.4	303
67	Novel tungsten carbide nanorods: An intrinsic peroxidase mimetic with high activity and stability in aqueous and organic solvents. Biosensors and Bioelectronics, 2014, 54, 521-527.	5.3	39
68	Facile synthesis of low crystalline MoS2 nanosheet-coated CNTs for enhanced hydrogen evolution reaction. Nanoscale, 2013, 5, 7768.	2.8	426
69	Ultrathin MoS₂ Nanoplates with Rich Active Sites as Highly Efficient Catalyst for Hydrogen Evolution. ACS Applied Materials & Interfaces, 2013, 5, 12794-12798.	4.0	392
70	Water-Soluble Polymer Exfoliated Graphene: As Catalyst Support and Sensor. Journal of Physical Chemistry B, 2013, 117, 5606-5613.	1.2	43
71	Nano-tungsten carbide decorated graphene as co-catalysts for enhanced hydrogen evolution on molybdenum disulfide. Chemical Communications, 2013, 49, 4884.	2.2	175
72	Ultrathin and Ultralong Single-Crystal Platinum Nanowire Assemblies with Highly Stable Electrocatalytic Activity. Journal of the American Chemical Society, 2013, 135, 9480-9485.	6.6	425

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73	Templateâ€Free Pseudomorphic Synthesis of Tungsten Carbide Nanorods. Small, 2012, 8, 3350-3356.	5.2	56
74	Hydrothermal preparation of carbon nanosheets and their supercapacitive behavior. Journal of Materials Chemistry, 2012, 22, 11458.	6.7	18