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	A metalâ€“organic framework-derived bifunctional oxygenÂelectrocatalyst. Nature Energy, 2016, 1, .	19.8	1,974
2	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
3	Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. ACS Catalysis, 2014, 4, 1693-1705.	5.5	769
4	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
5	Facile synthesis of low crystalline MoS2 nanosheet-coated CNTs for enhanced hydrogen evolution reaction. Nanoscale, 2013, 5, 7768.	2.8	426
6	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
7	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
8	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
9	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
10	Recent progress on graphene-based hybrid electrocatalysts. Materials Horizons, 2014, 1, 379-399.	6.4	303
11	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
12	Molybdenum Carbideâ€Based Electrocatalysts for Hydrogen Evolution Reaction. Chemistry - A European Journal, 2017, 23, 10947-10961.	1.7	267
13	Metal/covalentâ€“organic frameworks-based electrocatalysts for water splitting. Journal of Materials Chemistry A, 2018, 6, 15905-15926.	5.2	258
14	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
15	Energy-saving hydrogen production coupling urea oxidation over a bifunctional nickel-molybdenum nanotube array. Nano Energy, 2019, 60, 894-902.	8.2	250
16	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
17	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. Nano Energy, 2016, 30, 368-378.	8.2	229
18	A Flexible Electrode Based on Iron Phosphide Nanotubes for Overall Water Splitting. Chemistry - A European Journal, 2015, 21, 18062-18067.	1.7	228

#	Article	IF	Citations
19	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
20	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
21	Nano-tungsten carbide decorated graphene as co-catalysts for enhanced hydrogen evolution on molybdenum disulfide. Chemical Communications, 2013, 49, 4884.	2.2	175
22	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
23	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
24	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
25	Metalâ€“organic framework-derived hierarchical ultrathin CoP nanosheets for overall water splitting. Journal of Materials Chemistry A, 2020, 8, 19254-19261.	5.2	111
26	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
27	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
28	Recent Advances on MOF Derivatives for Non-Noble Metal Oxygen Electrocatalysts in Zinc-Air Batteries. Nano-Micro Letters, 2021, 13, 137.	14.4	84
29	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
30	Bio-inspired design of hierarchical FeP nanostructure arrays for the hydrogen evolution reaction. Nano Research, 2018, 11, 3537-3547.	5.8	78
31	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
32	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
33	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
34	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
35	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
36	Reinforced Layered Double Hydroxide Oxygenâ€Evolution Electrocatalysts: A Polyoxometallic Acid Wetâ€Etching Approach and Synergistic Mechanism. Advanced Materials, 2022, 34, e2110696.	11.1	57

#	Article	IF	Citations
37	Templateâ€Free Pseudomorphic Synthesis of Tungsten Carbide Nanorods. Small, 2012, 8, 3350-3356.	5.2	56
38	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
39	Recent Progress on NiFeâ€Based Electrocatalysts for Alkaline Oxygen Evolution. Advanced Sustainable Systems, 2021, 5, .	2.7	50
40	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
41	Anodic Hydrazine Oxidation Assists Energyâ€Efficient Hydrogen Evolution over a Bifunctional Cobalt Perselenide Nanosheet Electrode. Angewandte Chemie, 2018, 130, 7775-7779.	1.6	48
42	Oneâ€Pot Synthesis of Platinum Nanocubes on Reduced Graphene Oxide with Enhanced Electrocatalytic Activity. Small, 2014, 10, 2336-2339.	5.2	47
43	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
44	Water-Soluble Polymer Exfoliated Graphene: As Catalyst Support and Sensor. Journal of Physical Chemistry B, 2013, 117, 5606-5613.	1.2	43
45	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
46	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
47	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
48	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
49	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
50	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
51	A Zeolitic-Imidazole Framework-Derived Trifunctional Electrocatalyst for Hydrazine Fuel Cells. ACS Nano, 2021, 15, 10286-10295.	7.3	33
52	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
53	Millimeterâ€Long Vertically Aligned Carbonâ€Nanotubeâ€Supported Co₃O₄ Composite Electrode for Highâ€Performance Asymmetric Supercapacitor. ChemElectroChem, 2018, 5, 1394-1400.	1.7	32
54	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

#	Article	IF	Citations
55	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
56	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
57	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
58	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
59	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
60	Three-dimensional porous graphene/nickel cobalt mixed oxide composites for high-performance hybrid supercapacitor. Ceramics International, 2018, 44, 21848-21854.	2.3	24
61	Engineering of molybdenum sulfide nanostructures towards efficient electrocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 15009-15016.	3.8	21
62	Hydrothermal preparation of carbon nanosheets and their supercapacitive behavior. Journal of Materials Chemistry, 2012, 22, 11458.	6.7	18
63	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
64	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
65	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
66	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
67	Nitrogen-doped graphene-supported molybdenum dioxide electrocatalysts for oxygen reduction reaction. Journal of Materials Science, 2018, 53, 6124-6134.	1.7	11
68	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
69	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
70	Facile Synthesis of 3â€‰D Platinum Dendrites with a Clean Surface as Highly Stable Electrocatalysts. ChemCatChem, 2014, 6, 1538-1542.	1.8	8
71	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
72	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

#	Article	IF	Citations
73	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
74	Frontispiece: Molybdenum Carbideâ€Based Electrocatalysts for Hydrogen Evolution Reaction. Chemistry - A European Journal, 2017, 23, .	1.7	0