

Ya Yan

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73
papers

8,876
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h-index

76
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76
ext. papers

10,419
ext. citations

11.8
avg, IF

6.58
L-index

#	Paper	IF	Citations
73	A metal-organic framework-derived bifunctional oxygen electrocatalyst. <i>Nature Energy</i> , 2016 , 1,	62.3	1622
72	A review on noble-metal-free bifunctional heterogeneous catalysts for overall electrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17587-17603	13	740
71	Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2014 , 4, 1693-1705	13.1	678
70	Hierarchical MoS ₂ microboxes constructed by nanosheets with enhanced electrochemical properties for lithium storage and water splitting. <i>Energy and Environmental Science</i> , 2014 , 7, 3302-3306	35.4	436
69	Ultrathin and ultralong single-crystal platinum nanowire assemblies with highly stable electrocatalytic activity. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9480-5	16.4	377
68	Facile synthesis of low crystalline MoS ₂ nanosheet-coated CNTs for enhanced hydrogen evolution reaction. <i>Nanoscale</i> , 2013 , 5, 7768-71	7.7	376
67	One-pot synthesis of Pt-Co alloy nanowire assemblies with tunable composition and enhanced electrocatalytic properties. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3797-801	16.4	348
66	Ultrathin MoS ₂ nanoplates with rich active sites as highly efficient catalyst for hydrogen evolution. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12794-8	9.5	347
65	Recent progress on graphene-based hybrid electrocatalysts. <i>Materials Horizons</i> , 2014 , 1, 379-399	14.4	277
64	Anodic Hydrazine Oxidation Assists Energy-Efficient Hydrogen Evolution over a Bifunctional Cobalt Perselenide Nanosheet Electrode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7649-7653	16.4	241
63	Vertically oriented MoS ₂ and WS ₂ nanosheets directly grown on carbon cloth as efficient and stable 3-dimensional hydrogen-evolving cathodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 131-135	13	229
62	Molybdenum Carbide-Based Electrocatalysts for Hydrogen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2017 , 23, 10947-10961	4.8	211
61	Amino acid modified copper electrodes for the enhanced selective electroreduction of carbon dioxide towards hydrocarbons. <i>Energy and Environmental Science</i> , 2016 , 9, 1687-1695	35.4	204
60	A Flexible Electrode Based on Iron Phosphide Nanotubes for Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2015 , 21, 18062-7	4.8	198
59	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. <i>Nano Energy</i> , 2016 , 30, 368-378	17.1	196
58	Metal/covalent-organic frameworks-based electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15905-15926	13	180
57	Investigation of molybdenum carbide nano-rod as an efficient and durable electrocatalyst for hydrogen evolution in acidic and alkaline media. <i>Applied Catalysis B: Environmental</i> , 2014 , 154-155, 232-237	21.8	162

56	Nano-tungsten carbide decorated graphene as co-catalysts for enhanced hydrogen evolution on molybdenum disulfide. <i>Chemical Communications</i> , 2013 , 49, 4884-6	5.8	153
55	Construction of Efficient 3D Gas Evolution Electrocatalyst for Hydrogen Evolution: Porous FeP Nanowire Arrays on Graphene Sheets. <i>Advanced Science</i> , 2015 , 2, 1500120	13.6	139
54	Energy-saving hydrogen production coupling urea oxidation over a bifunctional nickel-molybdenum nanotube array. <i>Nano Energy</i> , 2019 , 60, 894-902	17.1	125
53	2D Nitrogen-Doped Carbon Nanotubes/Graphene Hybrid as Bifunctional Oxygen Electrocatalyst for Long-Life Rechargeable Zn/Air Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1906081	15.6	122
52	A Zeolitic-Imidazole Frameworks-Derived Interconnected Macroporous Carbon Matrix for Efficient Oxygen Electrocatalysis in Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , 2020 , 32, e2002170	24	113
51	Heterogeneous Electrocatalyst with Molecular Cobalt Ions Serving as the Center of Active Sites. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1878-1884	16.4	101
50	One-Pot Synthesis of Pt/Cu Alloy Nanowire Assemblies with Tunable Composition and Enhanced Electrocatalytic Properties. <i>Angewandte Chemie</i> , 2015 , 127, 3868-3872	3.6	85
49	Assembling pore-rich FeP nanorods on the CNT backbone as an advanced electrocatalyst for oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13005-13010	13	67
48	In situ formation of Ni ₃ Se ₄ nanorod arrays as versatile electrocatalysts for electrochemical oxidation reactions in hybrid water electrolysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15653-15658	13	64
47	Bio-inspired design of hierarchical FeP nanostructure arrays for the hydrogen evolution reaction. <i>Nano Research</i> , 2018 , 11, 3537-3547	10	63
46	Local spin-state tuning of cobalt/iron selenide nanoframes for the boosted oxygen evolution. <i>Energy and Environmental Science</i> , 2021 , 14, 365-373	35.4	57
45	Supercritical CO ₂ -Assisted synthesis of NiFe ₂ O ₄ /vertically-aligned carbon nanotube arrays hybrid as a bifunctional electrocatalyst for efficient overall water splitting. <i>Carbon</i> , 2019 , 145, 201-208	10.4	54
44	Template-free pseudomorphic synthesis of tungsten carbide nanorods. <i>Small</i> , 2012 , 8, 3350-6	11	51
43	Metal-organic framework-derived hierarchical ultrathin CoP nanosheets for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19254-19261	13	51
42	Quasi-Emulsion Confined Synthesis of Edge-Rich Ultrathin MoS Nanosheets/Graphene Hybrid for Enhanced Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2018 , 24, 556-560	4.8	48
41	Fe-Doped Ni/Cu Phosphide Nanoplates with Planar Defects as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7436-7444	8.3	46
40	Synthesis of amorphous boride nanosheets by the chemical reduction of Prussian blue analogs for efficient water electrolysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23289-23294	13	45
39	Fe ₂ O ₃ -decorated millimeter-long vertically aligned carbon nanotube arrays as advanced anode materials for asymmetric supercapacitors with high energy and power densities. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 19026-19036	13	41

38	One-pot synthesis of platinum nanocubes on reduced graphene oxide with enhanced electrocatalytic activity. <i>Small</i> , 2014 , 10, 2336-9	11	41
37	Water-soluble polymer exfoliated graphene: as catalyst support and sensor. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 5606-13	3-4	41
36	Anodic Hydrazine Oxidation Assists Energy-Efficient Hydrogen Evolution over a Bifunctional Cobalt Perselenide Nanosheet Electrode. <i>Angewandte Chemie</i> , 2018 , 130, 7775-7779	3.6	35
35	Novel tungsten carbide nanorods: an intrinsic peroxidase mimetic with high activity and stability in aqueous and organic solvents. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 521-7	11.8	34
34	Chainmail catalyst of ultrathin P-doped carbon shell-encapsulated nickel phosphides on graphene towards robust and efficient hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24107-24113	13	31
33	Cobalt sulfide supported on nitrogen and sulfur dual-doped reduced graphene oxide for highly active oxygen reduction reaction. <i>RSC Advances</i> , 2017 , 7, 50246-50253	3-7	27
32	Millimeter-Long Vertically Aligned Carbon-Nanotube- Supported Co ₃ O ₄ Composite Electrode for High-Performance Asymmetric Supercapacitor. <i>ChemElectroChem</i> , 2018 , 5, 1394-1400	4-3	26
31	Surface evolution and reconstruction of oxygen-abundant FePi/NiFeP synergy in NiFe phosphides for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18925-18931	13	26
30	Bifunctional nickel ferrite-decorated carbon nanotube arrays as free-standing air electrode for rechargeable Zn//air batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5070-5077	13	25
29	Graphene oxide/Al composites with enhanced mechanical properties fabricated by simple electrostatic interaction and powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 233-240	5-7	25
28	Investigation on surface layer characteristics of shot peened graphene reinforced Al composite by X-ray diffraction method. <i>Applied Surface Science</i> , 2018 , 435, 1257-1264	6.7	24
27	Recent Advances on MOF Derivatives for Non-Noble Metal Oxygen Electrocatalysts in Zinc-Air Batteries. <i>Nano-Micro Letters</i> , 2021 , 13, 137	19.5	22
26	VO/vertically-aligned carbon nanotubes as negative electrode for asymmetric supercapacitor in neutral aqueous electrolyte. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 847-856	9.3	22
25	Recent Progress on NiFe-Based Electrocatalysts for Alkaline Oxygen Evolution. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2000136	5.9	21
24	Three-dimensional porous graphene/nickel cobalt mixed oxide composites for high-performance hybrid supercapacitor. <i>Ceramics International</i> , 2018 , 44, 21848-21854	5.1	19
23	Engineering of molybdenum sulfide nanostructures towards efficient electrocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15009-15016	6.7	18
22	Metal-organic framework-derived cupric oxide polycrystalline nanowires for selective carbon dioxide electroreduction to C ₂ valuables. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12418-12423	13	16
21	In situ ion-exchange preparation and topological transformation of trimetal-organic frameworks for efficient electrocatalytic water oxidation. <i>Energy and Environmental Science</i> , 2021 ,	35.4	15

20	Hydrothermal preparation of carbon nanosheets and their supercapacitive behavior. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11458		13
19	Co(OH) ₂ nanoflakes grown on 3D graphene foam as a binder-free hybrid electrode for high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 7884-7891	7.1	12
18	Plasma-assisted synthesis of hierarchical NiCoPy nanosheets as robust and stable electrocatalyst for hydrogen evolution reaction in both acidic and alkaline media. <i>Electrochimica Acta</i> , 2020 , 331, 135431	6.7	12
17	Defective crystalline molybdenum phosphides as bifunctional catalysts for hydrogen evolution and hydrazine oxidation reactions during water splitting. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2686-2695	6.8	11
16	Hierarchical Mo-doped CoP interconnected nanosheet arrays on carbon cloth as an efficient bifunctional electrocatalyst for water splitting in an alkaline electrolyte. <i>Dalton Transactions</i> , 2020 , 49, 5563-5572	4.3	11
15	Ultrasmall Co ₂ P ₂ O ₇ nanocrystals anchored on nitrogen-doped graphene as efficient electrocatalysts for the oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2019 , 43, 6492-6499	3.6	10
14	Controllable synthesis of multidimensional carboxylic acid-based NiFe MOFs as efficient electrocatalysts for oxygen evolution. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 7191-7198	7.8	10
13	Molybdenum-tungsten Oxide Nanowires Rich in Oxygen Vacancies as An Advanced Electrocatalyst for Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2984-2991	4.5	9
12	Preparation of electro-reduced graphene oxide/copper composite foils with simultaneously enhanced thermal and mechanical properties by DC electro-deposition method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 805, 140574	5.3	9
11	N and Mn dual-doped cactus-like cobalt oxide nanoarchitecture derived from cobalt carbonate hydroxide as efficient electrocatalysts for oxygen evolution reactions. <i>Journal of Colloid and Interface Science</i> , 2021 , 597, 361-369	9.3	9
10	Facile Synthesis of 3 D Platinum Dendrites with a Clean Surface as Highly Stable Electrocatalysts. <i>ChemCatChem</i> , 2014 , 6, 1538-1542	5.2	8
9	A Zeolitic-Imidazole Framework-Derived Trifunctional Electrocatalyst for Hydrazine Fuel Cells. <i>ACS Nano</i> , 2021 , 15, 10286-10295	16.7	8
8	Nitrogen-doped graphene-supported molybdenum dioxide electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Science</i> , 2018 , 53, 6124-6134	4.3	7
7	Analysis of recrystallization behavior of shot peened graphene reinforced Al composites during isothermal annealing by X-ray diffraction method. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 862-868	5.7	7
6	Direct integration of ultralow-platinum alloy into nanocarbon architectures for efficient oxygen reduction in fuel cells. <i>Science Bulletin</i> , 2021 , 66, 2207-2216	10.6	7
5	Reinforced layered double hydroxide oxygen evolution electrocatalysts: polyoxometallic acid wet-etching approach and synergistic mechanism. <i>Advanced Materials</i> , 2022 , e2110696	24	5
4	Fabrication of Cu/graphite film/Cu sandwich composites with ultrahigh thermal conductivity for thermal management applications. <i>Frontiers of Materials Science</i> , 2020 , 14, 188-197	2.5	4
3	Air-Stable Mn doped CuCl/CuO Hybrid Triquetrous Nanoarrays as Bifunctional Electrocatalysts for Overall Water Splitting. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 3107-3113	4.5	4

2	A two-step approach to synthesis of Co(OH) ₂ /NiOOH/reduced graphene oxide nanocomposite for high performance supercapacitors. <i>Frontiers of Materials Science</i> , 2018 , 12, 273-282	2.5	3
1	An approach to prepare uniform graphene oxide/aluminum composite powders by simple electrostatic interaction in water/alcohol solution. <i>Frontiers of Materials Science</i> , 2019 , 13, 375-381	2.5	1