## Xiaoping Dai

List of Publications by Year in descending order

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76 3,647 34 58 papers citations h-index g-index

77 77 4857

times ranked

citing authors

docs citations

all docs

#	Article	IF	CITATIONS
1	PtNiCu nanowires with advantageous lattice-plane boundary for enhanced ethanol electrooxidation. Nano Research, 2022, 15, 2877-2886.	10.4	15
2	Highly stable Pt3Ni ultralong nanowires tailored with trace Mo for the ethanol oxidation. Nano Research, 2022, 15, 3230-3238.	10.4	10
3	Cobalt doped Fe-Mn@CNTs catalysts with highly stability for low-temperature selective catalytic reduction of NOx. Nano Research, 2022, 15, 3001-3009.	10.4	9
4	Interfacial electronic modulation on heterostructured NiSe@CoFe LDH nanoarrays for enhancing oxygen evolution reaction and water splitting by facilitating the deprotonation of OH to O. Chemical Engineering Journal, 2022, 431, 134080.	12.7	85
5	Mn-doping induced electronic modulation and rich oxygen vacancies on vertically grown NiFe2O4 nanosheet array for synergistically triggering oxygen evolution reaction. Nano Research, 2022, 15, 3940-3945.	10.4	31
6	Metal-Support interaction modulate the sulfidation and dispersion of MoS2 slabs on hierarchical KNiMo   ZnCrAl-Based multifunctional catalysts for selective conversion of syngas to higher alcohols. Chemical Engineering Journal, 2022, 440, 135831.	12.7	3
7	Synergistic coupling of heterostructured porous CoP nanosheets with P doped NiO for highly efficient overall alkaline water splitting. Journal of Colloid and Interface Science, 2022, 621, 213-221.	9.4	13
8	Electronic modulation and surface reconstruction of cactus-like $CoB < sub>2 < sub>0 < sub>4 < sub>0 $	10.3	24
9	Phosphorus-doping-tuned PtNi concave nanocubes with high-index facets for enhanced methanol oxidation reaction. Nano Research, 2022, 15, 6961-6968.	10.4	21
10	Interfacial synergistic effect in SnO2/PtNi nanocrystals enclosed by high-index facets for high-efficiency ethylene glycol electrooxidation. Nano Research, 2022, 15, 7877-7886.	10.4	8
11	Oxygen vacancies and surface reconstruction on NiFe LDH@Ni(OH)2 heterojunction synergistically triggering oxygen evolution and urea oxidation reaction. Journal of Alloys and Compounds, 2022, 921, 166145.	5.5	27
12	Electronic modulation and proton transfer by iron and borate co-doping for synergistically triggering the oxygen evolution reaction on a hollow NiO bipyramidal prism. Nanoscale, 2021, 13, 14156-14165.	5.6	23
13	Hierarchical sheet-on-sheet heterojunction array of a $\hat{l}^2$ -Ni(OH)2/Fe(OH)3 self-supporting anode for effective overall alkaline water splitting. Dalton Transactions, 2021, 50, 12547-12554.	3.3	11
14	Pt3Mn alloy nanostructure with high-index facets by Sn doping modified for highly catalytic active electro-oxidation reactions. Journal of Catalysis, 2021, 395, 282-292.	6.2	20
15	Cobalt nanoparticles encapsulated in nitrogen-rich carbonitride nanotubes for efficient and stable hydrogen evolution reaction at all pH values. International Journal of Hydrogen Energy, 2021, 46, 26347-26357.	7.1	7
16	Multicomponent Pt-based catalyst for highly efficient chemoselective hydrogenation of 4-carboxybenzaldehyde. Journal of Catalysis, 2021, 401, 174-182.	6.2	5
17	Phosphorus-doping induced electronic modulation of CoS2–MoS2 hollow spheres on MoO2 film-Mo foil for synergistically boosting alkaline hydrogen evolution reaction. International Journal of Hydrogen Energy, 2021, 46, 33388-33396.	7.1	10
18	Ordered mesoporous NiMg bimetal oxides confined KMoS catalyst for selective CO hydrogenation into higher alcohols. Fuel, 2021, 303, 121321.	6.4	5

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19	Synergistic enhancement of the oxygen evolution reaction by MoS <sub>x</sub> and sulphate on amorphous polymetallic oxide nanosheets. Journal of Materials Chemistry A, 2021, 9, 9858-9863.	10.3	19
20	<i>In situ</i> fabrication of dynamic self-optimizing Ni <sub>3</sub> S <sub>2</sub> nanosheets as an efficient catalyst for the oxygen evolution reaction. Dalton Transactions, 2020, 49, 70-78.	3.3	19
21	An Interfacial Electron Transfer on Tetrahedral NiS <sub>2</sub> /NiSe <sub>2</sub> Heterocages with Dualâ€Phase Synergy for Efficiently Triggering the Oxygen Evolution Reaction. Small, 2020, 16, e1905083.	10.0	122
22	Surface sites assembled-strategy on Pt–Ru nanowires for accelerated methanol oxidation. Dalton Transactions, 2020, 49, 13999-14008.	3.3	17
23	Heterostructured CoP/MoO <sub>2</sub> on Mo foil as high-efficiency electrocatalysts for the hydrogen evolution reaction in both acidic and alkaline media. Journal of Materials Chemistry A, 2020, 8, 6732-6739.	10.3	58
24	Interfacial synergy between dispersed Ru sub-nanoclusters and porous NiFe layered double hydroxide on accelerated overall water splitting by intermediate modulation. Nanoscale, 2020, 12, 9669-9679.	5.6	62
25	2D Fe-doped NiO nanosheets with grain boundary defects for the advanced oxygen evolution reaction. Dalton Transactions, 2020, 49, 6355-6362.	3.3	32
26	One-Pot-Synthesized CoFe-Glycerate Hollow Spheres with Rich Oxyhydroxides for Efficient Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 5464-5477.	6.7	31
27	Enhanced Higher Alcohol Synthesis from CO Hydrogenation on Zn-Modified MgAl-Mixed Oxide Supported KNiMoS-Based Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 1413-1421.	3.7	6
28	Selective Conversion of Syngas into Higher Alcohols via a Reaction-Coupling Strategy on Multifunctional Relay Catalysts. ACS Catalysis, 2020, 10, 2419-2430.	11,2	38
29	Amorphous MoS2 nanosheets on MoO2 films/Mo foil as free-standing electrode for synergetic electrocatalytic hydrogen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 17422-17433.	7.1	23
30	Hybrid of Fe3C@N, S co-doped carbon nanotubes coated porous carbon derived from metal organic frameworks as an efficient catalyst towards oxygen reduction. Journal of Colloid and Interface Science, 2019, 533, 311-318.	9.4	26
31	Morphology controllable synthesis of PtNi concave nanocubes enclosed by high-index facets supported on porous graphene for enhanced hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 17790-17796.	10.3	28
32	Cobalt Nanoparticles Embedded in N, S Coâ€Doped Carbon towards Oxygen Reduction Reaction Derived by inâ€situ Reducing Cobalt Sulfide. ChemCatChem, 2019, 11, 6039-6050.	3.7	11
33	Promotion of the Electrocatalytic Oxygen Evolution Reaction by Chemical Coupling of CoOOH Particles to 3D Branched Î <sup>3</sup> -MnOOH Rods. ACS Sustainable Chemistry and Engineering, 2019, 7, 13015-13022.	6.7	29
34	Amorphous NiMS (M: Co, Fe or Mn) holey nanosheets derived from crystal phase transition for enhanced oxygen evolution in water splitting. Electrochimica Acta, 2019, 323, 134756.	5.2	35
35	Restructured PtNi on ultrathin nickel hydroxide for enhanced performance in hydrogen evolution and methanol oxidation. Journal of Catalysis, 2019, 375, 267-278.	6.2	31
36	Amorphous (Fe)Ni-MOF-derived hollow (bi)metal/oxide@N-graphene polyhedron as effectively bifunctional catalysts in overall alkaline water splitting. Electrochimica Acta, 2019, 318, 430-439.	5.2	55

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37	Alkaline-Etched NiMgAl Trimetallic Oxide-Supported KMoS-Based Catalysts for Boosting Higher Alcohol Selectivity in CO Hydrogenation. ACS Applied Materials & Samp; Interfaces, 2019, 11, 19066-19076.	8.0	18
38	Partially sulfurated ultrathin nickel-iron carbonate hydroxides nanosheet boosting the oxygen evolution reaction. Electrochimica Acta, 2019, 309, 57-64.	5.2	37
39	Catalytic Ru containing Pt3Mn nanocrystals enclosed with high-indexed facets: Surface alloyed Ru makes Pt more active than Ru particles for ethylene glycol oxidation. Applied Catalysis B: Environmental, 2019, 253, 11-20.	20.2	60
40	The <i>in situ</i> etching assisted synthesis of Ptâ€"Feâ€"Mn ternary alloys with high-index facets as efficient catalysts for electro-oxidation reactions. Nanoscale, 2019, 11, 9061-9075.	5.6	50
41	A template-assisted strategy to synthesize a dilute CoNi alloy incorporated into ultramicroporous carbon for high performance supercapacitor application. Dalton Transactions, 2019, 48, 4702-4711.	3.3	12
42	Engineering FeNi alloy nanoparticles <i>via</i> synergistic ultralow Pt doping and nanocarbon capsulation for efficient hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 24347-24355.	10.3	39
43	Interfacial synergy of ultralong jagged Pt <sub>85</sub> Mo <sub>15</sub> –S nanowires with abundant active sites on enhanced hydrogen evolution in an alkaline solution. Journal of Materials Chemistry A, 2019, 7, 24328-24336.	10.3	35
44	Interface engineering: few-layer MoS <sub>2</sub> coupled to a NiCo-sulfide nanosheet heterostructure as a bifunctional electrocatalyst for overall water splitting. Journal of Materials Chemistry A, 2019, 7, 27594-27602.	10.3	80
45	Phosphorus-Doped FeNi Alloys/NiFe <sub>2</sub> O <sub>4</sub> Imbedded in Carbon Network Hollow Bipyramid as Efficient Electrocatalysts for Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 2285-2295.	6.7	39
46	NiCo-DH nanodots anchored on amorphous NiCo-Sulfide sheets as efficient electrocatalysts for oxygen evolution reaction. Electrochimica Acta, 2019, 295, 1085-1092.	5.2	46
47	Cobalt/Molybdenum Phosphide and Oxide Heterostructures Encapsulated in N-Doped Carbon Nanocomposite for Overall Water Splitting in Alkaline Media. ACS Applied Materials & Interfaces, 2019, 11, 6890-6899.	8.0	91
48	Implanting Mo Atoms into Surface Lattice of Pt <sub>3</sub> Mn Alloys Enclosed by High-Indexed Facets: Promoting Highly Active Sites for Ethylene Glycol Oxidation. ACS Catalysis, 2019, 9, 442-455.	11.2	79
49	Microwave-Assisted, Ni-Induced Fabrication of Hollow ZIF-8 Nanoframes for the Knoevenagel Reaction. Crystal Growth and Design, 2018, 18, 3841-3850.	3.0	25
50	Synergistic effect between undercoordinated platinum atoms and defective nickel hydroxide on enhanced hydrogen evolution reaction in alkaline solution. Nano Energy, 2018, 48, 590-599.	16.0	76
51	Structure Effects of 2D Materials on α-Nickel Hydroxide for Oxygen Evolution Reaction. ACS Nano, 2018, 12, 3875-3885.	14.6	174
52	Metal–organic frameworks-derived core–shell Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>N@graphite carbon nanocomposites as excellent non-precious metal electrocatalyst for oxygen reduction. Dalton Transactions, 2018, 47, 16567-16577.</sub>	3.3	29
53	Interface-Synergistically Enhanced Acidic, Neutral, and Alkaline Hydrogen Evolution Reaction over Mo <sub>2</sub> C/MoO <sub>2</sub> Heteronanorods. ACS Sustainable Chemistry and Engineering, 2018, 6, 14356-14364.	6.7	42
54	Simultaneous Modulation of Composition and Oxygen Vacancies on Hierarchical ZnCo <sub>2</sub> O <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> /NC NT Mesoporous Dodecahedron for Enhanced Oxygen Evolution Reaction. Chemistry - A European Journal, 2018, 24, 18689-18695.	3.3	14

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55	Restructured Feâ^'Mn Alloys Encapsulated by Nâ€doped Carbon Nanotube Catalysts Derived from Bimetallic MOF for Enhanced Oxygen Reduction Reaction. ChemCatChem, 2018, 10, 5475-5486.	3.7	39
56	Promoting effect of nickel hydroxide on the electrocatalytic performance of Pt in alkaline solution. Dalton Transactions, 2018, 47, 7975-7982.	3.3	24
57	Tungsten-Doped Molybdenum Sulfide with Dominant Double-Layer Structure on Mixed MgAl Oxide for Higher Alcohol Synthesis in CO Hydrogenation. Industrial & Engineering Chemistry Research, 2018, 57, 10170-10179.	3.7	17
58	Silver nanoparticles encapsulated by metal-organic-framework give the highest turnover frequencies of $10.5  h  \hat{a}^2$ for three component reaction by microwave-assisted heating. Journal of Catalysis, 2017, 348, 276-281.	6.2	25
59	A General Strategy Assisted with Dual Reductants and Dual Protecting Agents for Preparing Ptâ€Based Alloys with Highâ€Index Facets and Excellent Electrocatalytic Performance. Small, 2017, 13, 1702617.	10.0	45
60	Tuning the metal–support interaction in supported K-promoted NiMo catalysts for enhanced selectivity and productivity towards higher alcohols in CO hydrogenation. Catalysis Science and Technology, 2017, 7, 4206-4215.	4.1	17
61	Hollow FeNi-based hybrid polyhedron derived from unique sulfur-modulating coordinated transition bimetal complexes for efficient oxygen evolution reactions. Journal of Materials Chemistry A, 2017, 5, 21320-21327.	10.3	34
62	In Situ Synthesis of Core–Shell Pt–Cu Frame@Metal–Organic Frameworks as Multifunctional Catalysts for Hydrogenation Reaction. Chemistry of Materials, 2017, 29, 6336-6345.	6.7	42
63	Bimetallic thin film NiCo–NiCoO <sub>2</sub> @NC as a superior bifunctional electrocatalyst for overall water splitting in alkaline media. Journal of Materials Chemistry A, 2017, 5, 15901-15912.	10.3	109
64	Fe/IRMOF-3 derived porous carbons as non-precious metal electrocatalysts with high activity and stability towards oxygen reduction reaction. Electrochimica Acta, 2016, 205, 53-61.	5.2	42
65	Reduction kinetics of lanthanum ferrite perovskite for the production of synthesis gas by chemical-looping methane reforming. Chemical Engineering Science, 2016, 153, 236-245.	3.8	53
66	Strongly Coupled FeNi Alloys/NiFe <sub>2</sub> O <sub>4</sub> @Carbonitride Layers-Assembled Microboxes for Enhanced Oxygen Evolution Reaction. ACS Applied Materials & Diterfaces, 2016, 8, 34396-34404.	8.0	130
67	Graphene Oxide-Assisted Synthesis of Pt-Co Alloy Nanocrystals with High-Index Facets and Enhanced Electrocatalytic Properties. Small, 2016, 12, 524-533.	10.0	82
68	Reduced Graphene Oxide/O-MWCNT Hybrids Functionalized with p-Phenylenediamine as High-Performance MoS <sub>2</sub> Electrocatalyst Support for Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2016, 120, 1478-1487.	3.1	49
69	Enhanced hydrogen evolution reaction on few–layer MoS 2 nanosheets–coated functionalized carbon nanotubes. International Journal of Hydrogen Energy, 2015, 40, 8877-8888.	7.1	118
70	Platinum–cobalt nanocrystals synthesized under different atmospheres for high catalytic performance in methanol electro-oxidation. Journal of Materials Chemistry A, 2015, 3, 10671-10676.	10.3	23
71	One-Pot Synthesis of Ternary Pt–Ni–Cu Nanocrystals with High Catalytic Performance. Chemistry of Materials, 2015, 27, 6402-6410.	6.7	133
72	Co-Doped MoS <sub>2</sub> Nanosheets with the Dominant CoMoS Phase Coated on Carbon as an Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Excellent Electrocatalyst for Hydrogen Evolution. ACS Excellent Electrocatalyst for Hydrogen Evolution. Excellent Electrocatalyst for Electrocatalyst for Hydrogen Evolution. ACS Excellent Electrocatalyst for Electrocataly	8.0	422

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73	Large-pore mesoporous RuNi-doped TiO2–Al2O3 nanocomposites for highly efficient selective CO methanation in hydrogen-rich reformate gases. Applied Catalysis B: Environmental, 2015, 165, 752-762.	20.2	40
74	Synthesis of Pt–Ni Alloy Nanocrystals with Highâ€Index Facets and Enhanced Electrocatalytic Properties. Angewandte Chemie - International Edition, 2014, 53, 12522-12527.	13.8	123
75	Morphology Design of IRMOF-3 Crystal by Coordination Modulation. Crystal Growth and Design, 2014, 14, 5856-5864.	3.0	41
76	Highly stable and active PtNiFe dandelion-like alloys for methanol electrooxidation. Journal of Materials Chemistry A, 2013, 1, 13252.	10.3	32