

Bo Song

List of Publications by Year in descending order

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all docs

95
docs citations

95
times ranked

8950
citing authors

#	ARTICLE	IF	CITATIONS
1	Mn-N-P doped carbon spheres as an efficient oxygen reduction catalyst for high performance Zn-Air batteries. Chinese Chemical Letters, 2023, 34, 107222.	9.0	5
2	Magnetic field assisted electrocatalytic oxygen evolution reaction of nickel-based materials. Journal of Materials Chemistry A, 2022, 10, 1760-1767.	10.3	57
3	Interface regulation promoting carbon monoxide gas diffusion electrolysis towards C_2 products. Chemical Communications, 2022, 58, 3645-3648.	4.1	2
4	Two-Dimensional High-Entropy Metal Phosphorus Trichalcogenides for Enhanced Hydrogen Evolution Reaction. ACS Nano, 2022, 16, 3593-3603.	14.6	77
5	Bifunctional WC-Supported RuO_2 Nanoparticles for Robust Water Splitting in Acidic Media. Angewandte Chemie - International Edition, 2022, 61, .	13.8	89
6	Bifunctional WC-Supported RuO_2 Nanoparticles for Robust Water Splitting in Acidic Media. Angewandte Chemie, 2022, 134, .	2.0	11
7	MOF-derived Multi-shelled NiP_2 Microspheres as High-performance Anode Materials for Sodium/Potassium-Ion Batteries. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	7
8	Heating- and magnetization-stimulated increase in the Néel temperature and saturation field of iron-enriched garnet films. Journal of Magnetism and Magnetic Materials, 2022, 552, 169215.	2.3	1
9	Magnetic Field Enhanced Electrocatalytic Oxygen Evolution of $NiFeLDH/Co_3O_4$ p-n Heterojunction Supported on Nickel Foam. Small Methods, 2022, 6, e2200084.	8.6	39
10	2D Transition Metal Dichalcogenides: Design, Modulation, and Challenges in Electrocatalysis. Advanced Materials, 2021, 33, e1907818.	21.0	284
11	Phase-junction Electrocatalysts towards Enhanced Hydrogen Evolution Reaction in Alkaline Media. Angewandte Chemie, 2021, 133, 263-271.	2.0	24
12	Frontispiece: Phase-junction Electrocatalysts towards Enhanced Hydrogen Evolution Reaction in Alkaline Media. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
13	Phase-junction Electrocatalysts towards Enhanced Hydrogen Evolution Reaction in Alkaline Media. Angewandte Chemie - International Edition, 2021, 60, 259-267.	13.8	91
14	Highly Active Sites in Quaternary $LnPdAsO$ ($Ln = La, Ce, Pr$) with Excellent Catalytic Activity for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 4302-4307.	5.1	2
15	Modifying redox properties and local bonding of Co_3O_4 by CeO_2 enhances oxygen evolution catalysis in acid. Nature Communications, 2021, 12, 3036.	12.8	262
16	Phase-junction engineering boosts the performance of $CoSe_2$ for efficient sodium/potassium storage. Journal of Materials Chemistry A, 2021, 9, 25954-25963.	10.3	30
17	Phase engineering of transition metal compounds for boosting lithium/sodium storage. APL Materials, 2021, 9, .	5.1	3
18	Identification of the Active-Layer Structures for Acidic Oxygen Evolution from 9R- $BaIrO_3$ Electrocatalyst with Enhanced Iridium Mass Activity. Journal of the American Chemical Society, 2021, 143, 18001-18009.	13.7	73

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19	Torsion strained iridium oxide for efficient acidic water oxidation in proton exchange membrane electrolyzers. <i>Nature Nanotechnology</i> , 2021, 16, 1371-1377.	31.5	197
20	Frontispiz: Phaseâ€Junction Electrocatalysts towards Enhanced Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie</i> , 2021, 133, .	2.0	0
21	Investigations on p- and n-type diluted magnetic semiconductors X/Mn-codoped LiZnN (X= Li, Na and K). <i>Journal of Alloys and Compounds</i> , 2020, 821, 153235.	5.5	0
22	Controlled Synthesis of Hollow Bimetallic Prussian Blue Analog for Conversion into Efficient Oxygen Evolution Electrocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1319-1328.	6.7	39
23	Stable and selective electrosynthesis of hydrogen peroxide and the electro-Fenton process on CoSe₂ polymorph catalysts. <i>Energy and Environmental Science</i> , 2020, 13, 4189-4203.	30.8	134
24	Defect Engineering in Metastable Phases of Transitionâ€Metal Dichalcogenides for Electrochemical Applications. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3961-3972.	3.3	8
25	Investigating the electroactivity of nitrogen species in MoC nanoparticles/N-doped carbon nanosheets for high-performance Na/Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21298-21305.	10.3	22
26	Sulfur vacancies promoting Fe-doped Ni₃S₂ nanopyramid arrays as efficient bifunctional electrocatalysts for overall water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3326-3333.	4.9	44
27	High-performance position-sensitive detector based on the lateral photoelectrical effect of two-dimensional materials. <i>Light: Science and Applications</i> , 2020, 9, 88.	16.6	53
28	Ultrahigh Gain of a Vacuum-Ultraviolet Photodetector Based on a Heterojunction Structure of AlN Nanowires and NiO. <i>ACS Applied Materials and Interfaces</i> , 2020, 12, 10000-10006.	3.8	3
29	Dualâ€Enhanced Doping in ReSe₂ for Efficiently Photoenhanced Hydrogen Evolution Reaction. <i>Advanced Science</i> , 2020, 7, 2000216.	11.2	26
30	3D-Ising critical behavior in antiperovskite-type ferromagneticlike Mn3GaN. <i>Journal of Applied Physics</i> , 2020, 127, 073903.	2.5	0
31	Investigations on ferromagnetism of Li and Mn codoped LiZnN by firstâ€principles calculations. <i>Journal of the American Ceramic Society</i> , 2019, 102, 303-309.	3.8	2
32	Ultrafine CoO nanoparticles as an efficient cocatalyst for enhanced photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2019, 11, 15633-15640.	5.6	44
33	Boosting Hydrogen Transfer during Volmer Reaction at Oxides/Metal Nanocomposites for Efficient Alkaline Hydrogen Evolution. <i>ACS Energy Letters</i> , 2019, 4, 3002-3010.	17.4	142
34	Investigations on electronic structure of YMnO3 by electron energy loss spectra and first-principle calculations. <i>Powder Diffraction</i> , 2019, 34, 339-344.	0.2	0
35	Electronic structure of multiferroic BiFeO3: Electron energy-loss spectroscopy and first-principles study. <i>Micron</i> , 2019, 120, 43-47.	2.2	2
36	Enhanced Electrocatalytic Oxygen Evolution Activity by Tuning Both the Oxygen Vacancy and Orbital Occupancy of Bâ€Site Metal Cation in NdNiO₃. <i>Advanced Functional Materials</i> , 2019, 29, 1902449.	14.9	72

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37	Beyond 1Tâ€¢Phase? Synergistic Electronic Structure and Defects Engineering in 2Hâ€¢MoS ₂ Se ₂ (1â€¢) Nanosheets for Enhanced Hydrogen Evolution Reaction and Sodium Storage. ChemCatChem, 2019, 11, 3200-3211.	3.7	21
38	Single-crystalline melem (C ₆ N ₁₀ H ₆) nanorods: a novel stable molecular crystal photocatalyst with modulated charge potentials and dynamics. Journal of Materials Chemistry A, 2019, 7, 13234-13241.	10.3	22
39	Mixed Titanium Oxide Strategy for Enhanced Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2019, 11, 18475-18482.	8.0	39
40	Na _{0.9} Ni _{0.45} Ti _{0.55} O ₂ as novel bipolar material for sodium ion batteries. Solid State Ionics, 2019, 334, 14-20.	2.7	14
41	First-principles study on electronic and magnetic properties of (Al,Mn) codoped BaZn ₂ As ₂ . Journal of Alloys and Compounds, 2019, 783, 387-392.	5.5	4
42	Construction of FeP Hollow Nanoparticles Densely Encapsulated in Carbon Nanosheet Frameworks for Efficient and Durable Electrocatalytic Hydrogen Production. Advanced Science, 2019, 6, 1801490.	11.2	68
43	Unraveling the Raman Enhancement Mechanism on 1Tâ€¢Phase ReS ₂ Nanosheets. Small, 2018, 14, e1704079.	10.0	87
44	A confined â€¢microreactorâ€¢ synthesis strategy to three dimensional nitrogen-doped graphene for high-performance sodium ion battery anodes. Journal of Power Sources, 2018, 378, 105-111.	7.8	34
45	MOFâ€¢Based Transparent Passivation Layer Modified ZnO Nanorod Arrays for Enhanced Photoâ€¢Electrochemical Water Splitting. Advanced Energy Materials, 2018, 8, 1800101.	19.5	143
46	Self-powered ultraviolet vertical and lateral photovoltaic effect with fast-relaxation time in NdNiO ₃ /Nb:SrTiO ₃ heterojunctions. Applied Physics Letters, 2018, 112, .	3.3	22
47	Metal organic framework-derived CoPS/N-doped carbon for efficient electrocatalytic hydrogen evolution. Nanoscale, 2018, 10, 7291-7297.	5.6	107
48	Transition from antiferromagnetic ground state to robust ferrimagnetic order with Curie temperatures above 420 K in manganese-based antiperovskite-type structures. Journal of Materials Chemistry C, 2018, 6, 13336-13344.	5.5	5
49	Homogeneous Metal Nitrate Hydroxide Nanoarrays Grown on Nickel Foam for Efficient Electrocatalytic Oxygen Evolution. Small, 2018, 14, e1803783.	10.0	50
50	First principles study on ferromagnetism of diluted magnetic semiconductor Li(Zn, Mn)N. Journal of Applied Physics, 2018, 124, 203901.	2.5	2
51	Ruthenium Incorporated Cobalt Phosphide Nanocubes Derived From a Prussian Blue Analog for Enhanced Hydrogen Evolution. Frontiers in Chemistry, 2018, 6, 521.	3.6	23
52	Synergistic modulation in MX ₂ (where M = Mo or W or V, and X = S or Se) for an enhanced hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 21847-21858.	10.3	39
53	Highly Efficient Visible-Light-Driven Photocatalytic Hydrogen Production on CdS/Cu ₇ S ₄ /g-C ₃ N ₄ Ternary Heterostructures. ACS Applied Materials & Interfaces, 2018, 10, 20404-20411.	8.0	153
54	Skutterudite-Type Ternary Co _{1-x} Ni _x P ₃ Nanoneedle Array Electrocatalysts for Enhanced Hydrogen and Oxygen Evolution. ACS Energy Letters, 2018, 3, 1744-1752.	17.4	160

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55	Improving Electrocatalysts for Oxygen Evolution Using Ni _x /Fe _{3O₄} Hybrid Nanostructures Formed by Solvothermal Synthesis. ACS Energy Letters, 2018, 3, 1698-1707.	17.4	132
56	Anion-Induced Size Selection of ¹² Mo ₂ C Supported on Nitrogen-Doped Carbon Nanotubes for Electrocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2018, 6, 11922-11929.	6.7	38
57	Quantum dot-induced improved performance of cadmium telluride (CdTe) solar cells without a Cu buffer layer. Journal of Materials Chemistry A, 2017, 5, 4904-4911.	10.3	14
58	Origin of the Ultrafast Response of the Lateral Photovoltaic Effect in Amorphous MoS ₂ /Si Junctions. ACS Applied Materials & Interfaces, 2017, 9, 18362-18368.	8.0	46
59	Synergistic Phase and Disorder Engineering in 1T-MoSe ₂ Nanosheets for Enhanced Hydrogen Evolution Reaction. Advanced Materials, 2017, 29, 1700311.	21.0	411
60	Significantly enhanced mechanical properties in AlN helix. Nanotechnology, 2017, 28, 275703.	2.6	1
61	One-pot evaporation-condensation strategy for green synthesis of carbon nitride quantum dots: An efficient fluorescent probe for ion detection and bioimaging. Materials Chemistry and Physics, 2017, 194, 293-301.	4.0	47
62	Fabrication of HfTiO ₂ /CdS/Cu ₂ S Ternary Heterostructures for Enhanced Photocatalytic Hydrogen Production. ChemistrySelect, 2017, 2, 2681-2686.	1.5	9
63	Significantly Increased Raman Enhancement on MoX ₂ (X = S, Se) Monolayers upon Phase Transition. Advanced Functional Materials, 2017, 27, 1606694.	14.9	158
64	S, N Dual-Doped Graphene-like Carbon Nanosheets as Efficient Oxygen Reduction Reaction Electrocatalysts. ACS Applied Materials & Interfaces, 2017, 9, 398-405.	8.0	194
65	Two Are Better than One: Heterostructures Improve Hydrogen Evolution Catalysis. Joule, 2017, 1, 220-221.	24.0	32
66	Ultrasmall MnO Nanoparticles Supported on Nitrogen-Doped Carbon Nanotubes as Efficient Anode Materials for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 38401-38408.	8.0	61
67	Metal-free nitrogen-doped carbon nanoribbons as highly efficient electrocatalysts for oxygen reduction reaction. Carbon, 2017, 124, 34-41.	10.3	46
68	Tuning Mixed Nickel Iron Phosphosulfide Nanosheet Electrocatalysts for Enhanced Hydrogen and Oxygen Evolution. ACS Catalysis, 2017, 7, 8549-8557.	11.2	268
69	Effects of Transition Metal (TM = V, Cr, Mn, Fe, Co, and Ni) Elements on Magnetic Mechanism of LiZnP with Decoupled Charge and Spin Doping. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2823-2828.	1.8	4
70	Near-ultraviolet lateral photovoltaic effect in Fe _{3O₄} /3C-SiC Schottky junctions. Optics Express, 2016, 24, 23755.	3.4	27
71	The contribution of doped-Al to the colossal permittivity properties of Al _x Nb _{0.03} Ti _{0.97} O ₂ rutile ceramics. Journal of Materials Chemistry C, 2016, 4, 6798-6805.	5.5	90
72	Bifunctional Ag/C ₃ N _{4.5} composite nanobelts for photocatalysis and antibacterium. Nanotechnology, 2016, 27, 395603.	2.6	16

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73	Large lateral photovoltaic effect with ultrafast relaxation time in SnSe/Si junction. Applied Physics Letters, 2016, 109, .	3.3	42
74	Effect of Oxygen-deficiencies on Resistance Switching in Amorphous YFe _{0.5} Cr _{0.5} O ₃ films. Scientific Reports, 2016, 6, 30335.	3.3	8
75	Enhanced photocatalytic activity on polarized ferroelectric KNbO ₃ . RSC Advances, 2016, 6, 108883-108887.	3.6	50
76	Efficient Electrocatalytic and Photoelectrochemical Hydrogen Generation Using MoS ₂ and Related Compounds. Chem, 2016, 1, 699-726.	11.7	462
77	Vacancy defect complexes in silicon: Charges and spin order. Physical Review B, 2016, 94, .	3.2	6
78	Site-Selective Chlorination of Graphene through Laser-Induced In Situ Decomposition of AgCl Nanoparticles. ChemNanoMat, 2016, 2, 515-519.	2.8	3
79	Contributions of Phase, Sulfur Vacancies, and Edges to the Hydrogen Evolution Reaction Catalytic Activity of Porous Molybdenum Disulfide Nanosheets. Journal of the American Chemical Society, 2016, 138, 7965-7972.	13.7	1,055
80	Helical Growth of Aluminum Nitride: New Insights into Its Growth Habit from Nanostructures to Single Crystals. Scientific Reports, 2015, 5, 10087.	3.3	18
81	Direct Transformation from Graphitic C ₃ N ₄ to Nitrogen-Doped Graphene: An Efficient Metal-Free Electrocatalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2015, 7, 19626-19634.	8.0	182
82	Observation of the Long Afterglow in AlN Helices. Nano Letters, 2015, 15, 6575-6581.	9.1	33
83	New diluted magnetic semiconductor (BaK)(ZnMn) ₂ As ₂ : Electronic structure and magnetic properties. Computational Materials Science, 2015, 98, 93-98.	3.0	6
84	Magnetoresistance reversal in antiperovskite compound Mn ₃ Cu _{0.5} Zn _{0.5} N. Journal of Applied Physics, 2014, 115, 123905.	2.5	19
85	Facile synthesis of few-layer-thick carbon nitride nanosheets by liquid ammonia-assisted lithiation method and their photocatalytic redox properties. RSC Advances, 2014, 4, 32690-32697.	3.6	63
86	Magnetic mechanism investigations on n-type ferromagnetic Li(Zn,Mn)As. Solid State Communications, 2014, 177, 113-116.	1.9	9
87	Defect-Induced Magnetism in Neutron Irradiated 6H-SiC Single Crystals. Physical Review Letters, 2011, 106, 087205.	7.8	143
88	Experimental observation of ferromagnetism evolution in nanostructured semiconductor InN. Journal of Materials Chemistry, 2010, 20, 9935.	6.7	15
89	The sublimation growth of AlN fibers: transformations in Morphology & fiber direction. Applied Physics A: Materials Science and Processing, 2009, 94, 173-177.	2.3	20
90	Observation of Glassy Ferromagnetism in Al-Doped 4H-SiC. Journal of the American Chemical Society, 2009, 131, 1376-1377.	13.7	103

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91	Experimental observation of defect-induced intrinsic ferromagnetism in III-V nitrides: The case of BN. Physical Review B, 2009, 80, .	3.2	35
92	Growth of GaN Single Crystals by Li ₃ N Flux with Mn as Addition. Crystal Growth and Design, 2008, 8, 2775-2779.	3.0	6
93	Temperature dependence of the A ₁ (LO) and E ₂ (high) phonons in hexagonal InN nanowires. Journal of Applied Physics, 2007, 101, 124302.	2.5	9
94	Bulk GaN single crystals: a reinvestigation of growth mechanism using Li ₃ N flux. Applied Physics A: Materials Science and Processing, 2006, 85, 169-172.	2.3	8