## Bin Wang

## List of Publications by Year in descending order

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201674 254184 2,336 43 27 43 citations h-index g-index papers 45 45 45 2900 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Boosting photocatalytic hydrogen evolution of g-C3N4 catalyst via lowering the Fermi level of co-catalyst. Nano Research, 2022, 15, 1128-1134.	10.4	38
2	Constructing the Fe/Cr double (oxy)hydroxides on Fe3O4 for boosting the electrochemical oxygen evolution in alkaline seawater and domestic sewage. Applied Catalysis B: Environmental, 2022, 302, 120847.	20.2	30
3	N-doped CNT as electron transport promoter by bridging CoP and carbon cloth toward enhanced alkaline hydrogen evolution. Chemical Engineering Journal, 2022, 430, 132824.	12.7	42
4	Trace doping of early transition metal enabled efficient and durable oxygen reduction catalysis on Pt-based ultrathin nanowires. Applied Catalysis B: Environmental, 2022, 303, 120918.	20.2	30
5	Synthesis and electrocatalytic performance of ultrathin noble metal nanosheets. CrystEngComm, 2022, 24, 1319-1333.	2.6	5
6	Boosting the hydrogen evolution reaction of N-C@CoP through an N atom induced p-d orbital coupling. Chemical Engineering Journal, 2022, 446, 137132.	12.7	5
7	A co-coordination strategy to realize janus-type bimetallic phosphide as highly efficient and durable bifunctional catalyst for water splitting. Journal of Materials Science and Technology, 2021, 74, 11-20.	10.7	53
8	Fe <sub>2</sub> O <sub>3</sub> /NiO Interface for the Electrochemical Oxygen Evolution in Seawater and Domestic Sewage. ACS Applied Materials & Sewage. Research Mate	8.0	32
9	Constructing the Z-scheme TiO2/Au/BiOI nanocomposite for enhanced photocatalytic nitrogen fixation. Applied Surface Science, 2021, 556, 149785.	6.1	54
10	Understanding the doping effect on hydrogen evolution activity of transition-metal phosphides: Modeled with Ni2P. Applied Catalysis B: Environmental, 2021, 295, 120283.	20.2	90
11	Formation of pyrophosphates across grain boundaries induces the formation of mismatched but oriented interfaces in silver phosphate polypods. Applied Surface Science, 2021, 563, 149980.	6.1	1
12	An LSPR-based "push–pull―synergetic effect for the enhanced photocatalytic performance of a gold nanorod@cuprous oxide-gold nanoparticle ternary composite. Nanoscale, 2020, 12, 1912-1920.	5 <b>.</b> 6	20
13	Neighboring effect induced by V and Cr doping in FeCoP nanoarrays for the hydrogen evolution reaction with Pt-like performance. Journal of Materials Chemistry A, 2020, 8, 1184-1192.	10.3	45
14	Electrochemical formation of PtRu bimetallic nanoparticles for highly efficient and pH-universal hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 2090-2098.	10.3	33
15	Vertical V-Doped CoP Nanowall Arrays as a Highly Efficient and Stable Electrocatalyst for the Hydrogen Evolution Reaction at all pH Values. ACS Applied Energy Materials, 2020, 3, 1027-1035.	5.1	38
16	2D hydrogenated boride as a reductant and stabilizer for <i>in situ</i> synthesis of ultrafine and surfactant-free carbon supported noble metal electrocatalysts with enhanced activity and stability. Journal of Materials Chemistry A, 2020, 8, 18856-18862.	10.3	11
17	Tailoring the electronic structure by constructing the heterointerface of RuO <sub>2</sub> –NiO for overall water splitting with ultralow overpotential and extra-long lifetime. Journal of Materials Chemistry A, 2020, 8, 18945-18954.	10.3	29
18	A ternary photocatalyst of all-solid-state Z-scheme TiO2–Au–BiOBr for efficiently degrading various dyes. Journal of Alloys and Compounds, 2020, 839, 155597.	5.5	31

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19	lon redistributions at interfaces facilitate nucleation and growth of branched Ag3PO4 polypods. Materials Letters, 2020, 272, 127848.	2.6	0
20	Highly efficient wurtzite/zinc blende CdS visible light photocatalyst with high charge separation efficiency and stability. Journal of Chemical Physics, 2020, 152, 244703.	3.0	8
21	Electrochemically Modifying the Electronic Structure of IrO <sub>2</sub> Nanoparticles for Overall Electrochemical Water Splitting with Extensive Adaptability. Advanced Energy Materials, 2020, 10, 2001600.	19.5	123
22	Intrinsic insight on localized surface plasmon resonance enhanced methanol electro-oxidation over a Au@AgPt hollow urchin-like nanostructure. Journal of Materials Chemistry A, 2020, 8, 6638-6646.	10.3	19
23	The "electric-dipole―effect of Pt–Ni for enhanced catalytic dehydrogenation of ammonia borane. Journal of Alloys and Compounds, 2020, 844, 156253.	5.5	14
24	Bridging effect of Co heteroatom between g-C3N4 and Pt NPs for enhanced photocatalytic hydrogen evolution. Chemical Engineering Journal, 2020, 394, 124964.	12.7	40
25	Synergy of Dopants and Defects in Graphitic Carbon Nitride with Exceptionally Modulated Band Structures for Efficient Photocatalytic Oxygen Evolution. Advanced Materials, 2019, 31, e1903545.	21.0	604
26	Phosphorus and Yttrium Codoped Co(OH)F Nanoarray as Highly Efficient and Bifunctional Electrocatalysts for Overall Water Splitting. Small, 2019, 15, e1904105.	10.0	40
27	Single Metal Atom Photocatalysis. Small Methods, 2019, 3, 1800447.	8.6	140
28	Orienting the charge transfer path of type-II heterojunction for photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 256, 117853.	20.2	65
29	Surface-engineered mesoporous Pt nanodendrites with Ni dopant for highly enhanced catalytic performance in hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 12800-12807.	10.3	45
30	<i>In situ</i> characterization of kinetics and mass transport of PbSe nanowire growth <i>via</i> LS and VLS mechanisms. Nanoscale, 2019, 11, 5874-5878.	5.6	9
31	Localized surface plasmon enhanced electrocatalytic methanol oxidation of AgPt bimetallic nanoparticles with an ultra-thin shell. Chemical Communications, 2019, 55, 3943-3946.	4.1	24
32	Constructing ultrathin CoP nanomeshes by Er-doping for highly efficient bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2019, 7, 5769-5778.	10.3	128
33	Enhanced photocatalytic hydrogen evolution by partially replaced corner-site C atom with P in g-C3N4. Applied Catalysis B: Environmental, 2019, 244, 486-493.	20.2	103
34	Modification of Carbon Nanotubes via Birch Reaction for Enhanced HER Catalyst by Constructing Pearl Necklaceâ€Like NiCo <sub>2</sub> P <sub>2</sub> –CNT Composite. Small, 2018, 14, e1804388.	10.0	15
35	Mechanistic Understanding of the Growth Kinetics and Dynamics of Nanoparticle Superlattices by Coupling Interparticle Forces from Real-Time Measurements. ACS Nano, 2018, 12, 12778-12787.	14.6	34
36	Black TiO 2 for solar hydrogen conversion. Journal of Materiomics, 2017, 3, 96-111.	5.7	73

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37	Improving the plasmonic efficiency of the Au nanorod-semiconductor photocatalysis toward water reduction by constructing a unique hot-dog nanostructure. Nano Energy, 2017, 33, 469-475.	16.0	55
38	Surface Reconstruction of Facetâ€Functionalized SrTiO <sub>3</sub> Nanocrystals for Photocatalytic Hydrogen Evolution. ChemCatChem, 2016, 8, 798-804.	3.7	34
39	Transformation of zincblende nanoparticles into wurtzite microrods by a dissolution–regrowth process: an intergrowth homojunction with enhanced photocatalytic activity. Catalysis Science and Technology, 2016, 6, 3371-3377.	4.1	22
40	Symmetry breaking in semiconductor nanocrystals via kinetic-controlled surface diffusion: a strategy for manipulating the junction structure. Nanoscale, 2016, 8, 15970-15977.	5.6	8
41	Insight into Cd0.9Zn0.1S solid-solution nanotetrapods: Growth mechanism and their application for photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2016, 41, 20455-20464.	7.1	26
42	Surface Activation of Faceted Photocatalyst: When Metal Cocatalyst Determines the Nature of the Facets. Advanced Science, 2015, 2, 1500153.	11.2	25
43	SrTiO3 single crystals enclosed with high-indexed {023} facets and {001} facets for photocatalytic hydrogen and oxygen evolution. Applied Catalysis B: Environmental, 2015, 166-167, 320-326.	20.2	93