

Zhipeng Huang

List of Publications by Year in descending order

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83
papers

3,709
citations

159525

30
h-index

133188

59
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85
all docs

85
docs citations

85
times ranked

4467
citing authors

#	ARTICLE	IF	CITATIONS
1	Cobalt phosphide nanorods as an efficient electrocatalyst for the hydrogen evolution reaction. <i>Nano Energy</i> , 2014, 9, 373-382.	8.2	478
2	Ni ₁₂ P ₅ Nanoparticles as an Efficient Catalyst for Hydrogen Generation via Electrolysis and Photoelectrolysis. <i>ACS Nano</i> , 2014, 8, 8121-8129.	7.3	413
3	A Nitrogen Doping Method for CoS ₂ Electrocatalysts with Enhanced Water Oxidation Performance. <i>ACS Catalysis</i> , 2017, 7, 4214-4220.	5.5	181
4	Large Second-Harmonic Response and Giant Birefringence of CeF ₂ (SO ₄) Induced by Highly Polarizable Polyhedra. <i>Journal of the American Chemical Society</i> , 2021, 143, 4138-4142.	6.6	147
5	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO ₃) ₂ (NO ₃). <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3464-3468.	7.2	124
6	The hierarchical nanowires array of iron phosphide integrated on a carbon fiber paper as an effective electrocatalyst for hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1454-1460.	5.2	120
7	Triple Functions of Ni(OH) ₂ on the Surface of WN Nanowires Remarkably Promoting Electrocatalytic Activity in Full Water Splitting. <i>ACS Catalysis</i> , 2020, 10, 13323-13333.	5.5	120
8	UV Solar-Blind Region Phase-Matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-Containing Phosphate. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14806-14810.	7.2	99
9	Covalent functionalization of reduced graphene oxide with porphyrin by means of diazonium chemistry for nonlinear optical performance. <i>Scientific Reports</i> , 2016, 6, 23325.	1.6	98
10	One-pot synthesis of diiron phosphide/nitrogen-doped graphene nanocomposite for effective hydrogen generation. <i>Nano Energy</i> , 2015, 12, 666-674.	8.2	93
11	K ₅ (W ₃ O ₉ F ₄)(IO ₃): An Efficient Mid-Infrared Nonlinear Optical Compound with High Laser Damage Threshold. <i>Chemistry of Materials</i> , 2019, 31, 10100-10108.	3.2	92
12	Giant Second-Harmonic Generation Response and Large Band Gap in the Partially Fluorinated Mid-Infrared Oxide RbTeMo ₂ O ₈ F. <i>Journal of the American Chemical Society</i> , 2021, 143, 12455-12459.	6.6	91
13	Amorphous film of cerium doped cobalt oxide as a highly efficient electrocatalyst for oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7526-7532.	5.2	72
14	Enhanced photoelectrochemical hydrogen production using silicon nanowires@MoS ₃ . <i>Nano Energy</i> , 2013, 2, 1337-1346.	8.2	69
15	Nitrogen doped NiS ₂ nanoarrays with enhanced electrocatalytic activity for water oxidation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17811-17816.	5.2	69
16	Nickel-Based (Photo)Electrocatalysts for Hydrogen Production. <i>Advanced Materials</i> , 2018, 30, e1705653.	11.1	66
17	Ultrafast synthesis of molybdenum carbide nanoparticles for efficient hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22805-22812.	5.2	65
18	Phase separation synthesis of trinickel monophosphide porous hollow nanospheres for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10925-10932.	5.2	62

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19	Amorphous film of ternary Ni Co P alloy on Ni foam for efficient hydrogen evolution by electroless deposition. International Journal of Hydrogen Energy, 2018, 43, 7872-7880.	3.8	62
20	Modulation of Volmer step for efficient alkaline water splitting implemented by titanium oxide promoting surface reconstruction of cobalt carbonate hydroxide. Nano Energy, 2021, 82, 105732.	8.2	53
21	Strong SHG Responses in a Beryllium-Free Deep-UV-Transparent Hydroxyborate via Covalent Bond Modification. Angewandte Chemie - International Edition, 2021, 60, 27151-27157.	7.2	50
22	Graphene Porous Foam Loaded with Molybdenum Carbide Nanoparticulate Electrocatalyst for Effective Hydrogen Generation. ChemSusChem, 2016, 9, 855-862.	3.6	49
23	Phosphorus doped single wall carbon nanotubes loaded with nanoparticles of iron phosphide and iron carbide for efficient hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 13336-13343.	5.2	48
24	A Self-Supported Porous Hierarchical Core-Shell Nanostructure of Cobalt Oxide for Efficient Oxygen Evolution Reaction. ACS Catalysis, 2017, 7, 8205-8213.	5.5	46
25	AGa ₃ F ₆ (SeO ₃) ₂ (A = Rb, Cs): A New Type of Phase-Matchable Hexagonal Tungsten Oxide Material with Strong Second-Harmonic Generation Responses. Chemistry of Materials, 2020, 32, 6906-6915.	3.2	46
26	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO ₃) ₂ (NO ₃). Angewandte Chemie, 2021, 133, 3506-3510.	1.6	46
27	Enhancement of Second-Order Optical Nonlinearity in a Lutetium Selenite by Monodentate Anion Partial Substitution. Chemistry of Materials, 2020, 32, 3043-3053.	3.2	40
28	A Lanthanum Ammonium Sulfate Double Salt with a Strong SHG Response and Wide Deep-UV Transparency. Angewandte Chemie - International Edition, 2022, 61, .	7.2	38
29	A Congruent-Melting Mid-Infrared Nonlinear Optical Vanadate Exhibiting Strong Second-Harmonic Generation. Angewandte Chemie - International Edition, 2021, 60, 22447-22453.	7.2	37
30	Promoting electrocatalytic activity of cobalt cyclotetraphosphate in full water splitting by titanium-oxide-accelerated surface reconstruction. Journal of Materials Chemistry A, 2019, 7, 12457-12467.	5.2	36
31	Switching the Nonlinear Optical Absorption of Titanium Carbide MXene by Modulation of the Surface Terminations. ACS Nano, 2022, 16, 394-404.	7.3	32
32	Nanocomposite of MoO ₂ and MoC loaded on porous carbon as an efficient electrocatalyst for hydrogen evolution reaction. Inorganic Chemistry Frontiers, 2018, 5, 446-453.	3.0	31
33	<i>A</i> ₂ MoO ₂ F ₃ (IO ₂ F ₂) (<i>A</i> = Rb, Tl) ETQq1 1 0.784314 rg	3.2	30
34	CsZrF ₄ (IO ₃): The First Polar Zirconium Iodate with <i>cis</i> -[ZrO ₂ F ₆] Polyhedra Inducing Optimized Balance of Large Band Gap and Second Harmonic Generation. Chemistry of Materials, 2021, 33, 5555-5562.	3.2	29
35	Superb Nonlinear Absorption of Triphenylene-Based Metal-Organic Frameworks Associated with Abundant Metal d Electrons. Advanced Optical Materials, 2021, 9, 2100622.	3.6	28
36	Ultrawide Bandgap and Outstanding Second-Harmonic Generation Response by a Fluorine-Enrichment Strategy at a Transition-Metal Oxyfluoride Nonlinear Optical Material. Angewandte Chemie - International Edition, 2022, 61, .	7.2	28

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37	Facile synthesis of hollow carbon microspheres embedded with molybdenum carbide nanoparticles as an efficient electrocatalyst for hydrogen generation. RSC Advances, 2016, 6, 75870-75874.	1.7	26
38	Ba(MoO ₂ F) ₂ (XO ₃) ₂ (X = Se and Te): First Cases of Noncentrosymmetric Fluorinated Molybdenum Oxide Selenite/Tellurite Through Unary Substitution for Enlarging Band Gaps and Second Harmonic Generation. ACS Applied Materials & Interfaces, 2020, 12, 49812-49821.	4.0	25
39	From CeF ₂ (SO ₄) ₂ ·H ₂ O to Ce(IO ₃) ₂ (SO ₄) ₂ : Defluorinated Homovalent Substitution for Strong Second-Harmonic-Generation Effect and Sufficient Birefringence. Chemistry of Materials, 2021, 33, 9317-9325.	3.2	23
40	A facile approach to hetero-nanorods of Ag ₂ Se@MSe (M = Cd, Zn) with enhanced third-order optical nonlinearity. Journal of Materials Chemistry C, 2014, 2, 1418.	2.7	22
41	Vertical Heterostructure of SnS@MoS ₂ Synthesized by Sulfur-Preloaded Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2020, 12, 7423-7431.	4.0	22
42	W-doped MoO ₂ /MoC Hybrids Encapsulated by P-doped Carbon Shells for Enhanced Electrocatalytic Hydrogen Evolution. Energy Technology, 2018, 6, 1707-1714.	1.8	21
43	Facet-dependent nonlinear optical properties of bismuth oxychloride single-crystal nanosheets. Journal of Materials Chemistry C, 2018, 6, 8709-8716.	2.7	20
44	One-step electrodeposition of cerium-doped nickel hydroxide nanosheets for effective oxygen generation. RSC Advances, 2019, 9, 17891-17896.	1.7	20
45	UV Solar-blind Region Phase-matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-containing Phosphate. Angewandte Chemie, 2021, 133, 14932-14936.	1.6	19
46	Strong near-infrared and ultrafast femtosecond nonlinearities of a covalently-linked triply-fused porphyrin dimer-SWCNT nanohybrid. Nano Research, 2022, 15, 1355-1365.	5.8	19
47	Gd(NO ₃) ₃ (SeO ₅) ₃ ·3H ₂ O: a nitrate-selenite nonlinear optical material with a short ultraviolet cutoff edge. Dalton Transactions, 2020, 49, 3253-3259.	1.6	18
48	Additive-triggered Polar Polymorph Formation: Cs(IO ₃) ₃ , a Promising Next-generation Mid-infrared Nonlinear Optical Material. Angewandte Chemie - International Edition, 2022, 61, .	7.2	18
49	Rb ₃ In(SO ₄) ₃ : a defluorinated mixed main-group metal sulfate for ultraviolet transparent nonlinear optical materials with a large optical band gap. Journal of Materials Chemistry C, 2021, 9, 5124-5131.	2.7	16
50	Ni loaded on N-doped carbon encapsulated tungsten oxide nanowires as an alkaline-stable electrocatalyst for water reduction. Sustainable Energy and Fuels, 2020, 4, 788-796.	2.5	15
51	Deep-ultraviolet transparent alkali metal-rare earth metal sulfate NaY(SO ₄) ₂ ·H ₂ O as a nonlinear optical crystal: synthesis and characterization. CrystEngComm, 2021, 23, 2945-2951.	1.3	14
52	Giant Nonlinear Optical Absorption of Ion-intercalated Tin Disulfide Associated with Abundant In-gap Defects. Advanced Functional Materials, 2021, 31, 2106930.	7.8	14
53	Unveiling the advantages of an ultrathin N-doped carbon shell on self-supported tungsten phosphide nanowire arrays for the hydrogen evolution reaction experimentally and theoretically. Nanoscale, 2022, 14, 5430-5438.	2.8	14
54	Nickel iron carbonate hydroxide hydrate decorated with CeOx for highly efficient oxygen evolution reaction. Journal of Solid State Electrochemistry, 2019, 23, 3449-3458.	1.2	13

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55	Enhancing Reverse Saturable Absorption in SnS ₂ Nanosheets by Plasma Treatment. ACS Applied Materials & Interfaces, 2021, 13, 4211-4219.	4.0	13
56	Incorporating rare-earth cations with moderate electropositivity into iodates for the optimized second-order nonlinear optical performance. Inorganic Chemistry Frontiers, 2020, 7, 2736-2746.	3.0	12
57	Molecular Engineering toward an Enlarged Optical Band Gap in a Bismuth Sulfate via Homovalent Cation Substitution. Inorganic Chemistry, 2021, 60, 5851-5859.	1.9	12
58	Realizing Saturable Absorption and Reverse Saturable Absorption in a PEDOT:PSS Film via Electrical Modulation. ACS Applied Materials & Interfaces, 2020, 12, 48982-48990.	4.0	11
59	Electrical Tuning of the Fifth-Order Optical Nonlinearity of Antimony-Doped Tin Oxide. Advanced Optical Materials, 2021, 9, 2001357.	3.6	11
60	<i>In situ</i> hydrothermal synthesis of polar second-order nonlinear optical selenate Na ₅ (SeO ₄)(HSeO ₄) ₃ (H ₂ O) ₂ . Inorganic Chemistry Frontiers, 2021, 8, 3141-3148.	3.0	11
61	A Congruent-Melting Mid-Infrared Nonlinear Optical Vanadate Exhibiting Strong Second-Harmonic Generation. Angewandte Chemie, 2021, 133, 22621-22627.	1.6	11
62	From Ce(IO ₃) ₄ to CeF ₂ (IO ₃) ₂ : fluorinated homovalent substitution simultaneously enhances SHG response and bandgap for mid-infrared nonlinear optics. Journal of Materials Chemistry C, 0, , .	2.7	11
63	Strong SHG Responses in a Beryllium-Free Deep-UV-Transparent Hydroxyborate via Covalent Bond Modification. Angewandte Chemie, 2021, 133, 27357.	1.6	9
64	First chiral fluorinated lead vanadate selenite Pb ₂ (V ₂ O ₄ F)(VO ₂)(SeO ₃) ₃ with five asymmetric motifs and large optical properties. Dalton Transactions, 2021, 50, 7238-7245.	1.6	8
65	Vertical Stacking of Copper Sulfide Nanoparticles and Molybdenum Sulfide Nanosheets for Enhanced Nonlinear Absorption. ACS Applied Materials & Interfaces, 2019, 11, 35835-35844.	4.0	7
66	Facile syntheses of silver thioantimonates exhibiting second-harmonic generation responses and large birefringence. Dalton Transactions, 2021, 50, 3568-3576.	1.6	7
67	Fast electrochemical activation of the broadband saturable absorption of tungsten oxide nanoporous film. Nano Research, 2022, 15, 326-332.	5.8	7
68	Few-layer tiny nanoflakes of molybdenum sulfide loaded on porous carbon as an efficient electrocatalyst for hydrogen generation. Journal of Alloys and Compounds, 2018, 750, 927-934.	2.8	6
69	Ultrafast nonlinear optical response of molybdenum nano-film in wide wavelength range. Optical Materials, 2019, 95, 109244.	1.7	6
70	TiO ₂ -enhanced <i>in situ</i> electrochemical activation of Co ₃ O ₄ for the alkaline hydrogen evolution reaction. Journal of Materials Chemistry A, 2022, 10, 13769-13779.	5.2	6
71	One-dimensional amorphous cobalt(<i>sc</i>) metal-organic framework nanowire for efficient hydrogen evolution reaction. Inorganic Chemistry Frontiers, 2022, 9, 4184-4193.	3.0	6
72	Switching the Nonparametric Optical Nonlinearity of Tungsten Oxide by Electrical Modulation. Advanced Optical Materials, 2021, 9, 2002188.	3.6	4

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73	The <i>in situ</i> removal of surface molybdenum oxide for making binder-free porous Mo _{1.98} C _{1.02} film a more efficient electrocatalyst for alkaline rather than acidic hydrogen production. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3373-3381.	2.5	4
74	Ultrawide Bandgap and Outstanding Second-Harmonic Generation Response by a Fluorine-Enrichment Strategy at a Transition-Metal Oxyfluoride Nonlinear Optical Material. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
75	Solvothermal Syntheses of Three-Dimensional Open-Framework Thioantimonates Displaying Nonlinear Optical Responses. <i>Crystal Growth and Design</i> , 2021, 21, 4757-4764.	1.4	3
76	Oxidation-State-Dependent Nonlinear Absorption of Prussian Blue. <i>Journal of Electronic Materials</i> , 2022, 51, 249.	1.0	3
77	A Lanthanum Ammonium Sulfate Double Salt with a Strong SHG Response and Wide Deep-UV Transparency. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
78	Covalent functionalization of few-layer TiS ₂ with tetraphenylporphyrin: toward a donor-acceptor nanohybrid featuring enhanced nonlinear saturation absorption. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10876-10887.	2.7	2
79	Synthesis, crystal structures and optical properties of open-framework gallium phosphates: NaGa ₃ F ₄ (PO ₄) ₂ (H ₂ O) ₂ and AGa ₂ P ₂ O ₇ (OH) ₃ (H ₂ O) (A = K, Rb). <i>Journal of Solid State Chemistry</i> , 2020, 288, 121412.	1.4	1
80	Second-order nonlinear optical property of the ultraviolet transparent alkali metal-rare earth metal carbonate Na ₃ Y(CO ₃) ₃ ·3H ₂ O. <i>Journal of Solid State Chemistry</i> , 2021, 298, 122095.	1.4	1
81	Electrochemical modulation enhancing the saturation absorption of polyaniline. <i>Optical Materials</i> , 2021, 118, 111272.	1.7	1
82	Innenteilbild: UV Solar-Blind-Region Phase-Matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-Containing Phosphate (Angew. Chem. 27/2021). <i>Angewandte Chemie</i> , 2021, 133, 14842-14842.	1.6	0
83	Innenteilbild: Ultrawide Bandgap and Outstanding Second-Harmonic Generation Response by a Fluorine-Enrichment Strategy at a Transition-Metal Oxyfluoride Nonlinear Optical Material (Angew.) Tj ETQq1 1 0784314rgBT /Over		