

Zhipeng Huang

List of Publications by Year in descending order

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83
papers

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159525

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133188

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85
all docs

85
docs citations

85
times ranked

4467
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast electrochemical activation of the broadband saturable absorption of tungsten oxide nanoporous film. <i>Nano Research</i> , 2022, 15, 326-332.	5.8	7
2	Strong near-infrared and ultrafast femtosecond nonlinearities of a covalently-linked triply-fused porphyrin dimer-SWCNT nanohybrid. <i>Nano Research</i> , 2022, 15, 1355-1365.	5.8	19
3	Oxidation-State-Dependent Nonlinear Absorption of Prussian Blue. <i>Journal of Electronic Materials</i> , 2022, 51, 249.	1.0	3
4	Switching the Nonlinear Optical Absorption of Titanium Carbide MXene by Modulation of the Surface Terminations. <i>ACS Nano</i> , 2022, 16, 394-404.	7.3	32
5	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. <i>Nanoscale</i> , 2022, 14, 5430-5438.	2.8	14
6	Ultrawide Bandgap and Outstanding Second-Harmonic Generation Response by a Fluorine-Enrichment Strategy at a Transition-Metal Oxyfluoride Nonlinear Optical Material. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	28
7	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
8	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
9	A Lanthanum Ammonium Sulfate Double Salt with a Strong SHG Response and Wide Deep-UV Transparency. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	38
10	Innentitelbild: Ultrawide Bandgap and Outstanding Second-Harmonic Generation Response by a Fluorine-Enrichment Strategy at a Transition-Metal Oxyfluoride Nonlinear Optical Material (Angew.) Tj ETQq0 0 0gBT /Overlock 10		
11	TiO ₂ -enhanced <i>in situ</i> electrochemical activation of Co ₃ O ₄ for the alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13769-13779.	5.2	6
12	One-dimensional amorphous cobalt(<i>sc</i>) metal-organic framework nanowire for efficient hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 4184-4193.	3.0	6
13	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
14	Additive-Triggered Polar Polymorph Formation: $\text{I}^{2+}\text{Sc}(\text{IO}_3)_3$, a Promising Next-Generation Mid-Infrared Nonlinear Optical Material. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	18
15	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
16	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO ₃) ₂ (NO ₃). <i>Angewandte Chemie</i> , 2021, 133, 3506-3510.	1.6	46
17	Electrical Tuning of the Fifth-Order Optical Nonlinearity of Antimony-Doped Tin Oxide. <i>Advanced Optical Materials</i> , 2021, 9, 2001357.	3.6	11
18	<i>In situ</i> hydrothermal synthesis of polar second-order nonlinear optical selenate Na ₅ (SeO ₄)(HSeO ₄) ₃ (H ₂ O) ₂ . <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3141-3148.	3.0	11

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19	First chiral fluorinated lead vanadate selenite $Pb_2(V_2O_4F)(VO)_2(SeO_3)_3$ with five asymmetric motifs and large optical properties. Dalton Transactions, 2021, 50, 7238-7245.	1.6	8
20	Facile syntheses of silver thioantimonates exhibiting second-harmonic generation responses and large birefringence. Dalton Transactions, 2021, 50, 3568-3576.	1.6	7
21	Enhancing Reverse Saturable Absorption in SnS_2 Nanosheets by Plasma Treatment. ACS Applied Materials & Interfaces, 2021, 13, 4211-4219.	4.0	13
22	Deep-ultraviolet transparent alkali metal "rare earth metal sulfate $NaY(SO_4)_2 \cdot H_2O$ as a nonlinear optical crystal: synthesis and characterization. CrystEngComm, 2021, 23, 2945-2951.	1.3	14
23	Large Second-Harmonic Response and Giant Birefringence of $CeF_2(SO_4)_2$ Induced by Highly Polarizable Polyhedra. Journal of the American Chemical Society, 2021, 143, 4138-4142.	6.6	147
24	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
25	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
26	Switching the Nonparametric Optical Nonlinearity of Tungsten Oxide by Electrical Modulation. Advanced Optical Materials, 2021, 9, 2002188.	3.6	4
27	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
28	Innentitelbild: UV Solar-Blind Region Phase-Matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-Containing Phosphate (Angew. Chem. 27/2021). Angewandte Chemie, 2021, 133, 14842-14842.	1.6	0
29	UV Solar-Blind Region Phase-Matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-Containing Phosphate. Angewandte Chemie - International Edition, 2021, 60, 14806-14810.	7.2	99
30	$CsZrF_4(IO)_3$: The First Polar Zirconium Iodate with <i>cis</i> - $[ZrO_2F_6]$ Polyhedra Inducing Optimized Balance of Large Band Gap and Second Harmonic Generation. Chemistry of Materials, 2021, 33, 5555-5562.	3.2	29
31	$A_2MoO_2F_3(IO)_2F_2$ (<i>A</i> = Rb, Tl) $ETQq110.784314$ rg. Chemistry of Materials, 2021, 33, 5700-5708.	3.2	30
32	Second-order nonlinear optical property of the ultraviolet transparent alkali metal-rare earth metal carbonate $Na_3Y(CO_3)_3 \cdot 3H_2O$. Journal of Solid State Chemistry, 2021, 298, 122095.	1.4	1
33	Superb Nonlinear Absorption of Triphenylene-Based Metal-Organic Frameworks Associated with Abundant Metal d Electrons. Advanced Optical Materials, 2021, 9, 2100622.	3.6	28
34	Solvothermal Syntheses of Three-Dimensional Open-Framework Thioantimonates Displaying Nonlinear Optical Responses. Crystal Growth and Design, 2021, 21, 4757-4764.	1.4	3
35	Giant Second-Harmonic Generation Response and Large Band Gap in the Partially Fluorinated Mid-Infrared Oxide $RbTeMo_2O_8F$. Journal of the American Chemical Society, 2021, 143, 12455-12459.	6.6	91
36	Electrochemical modulation enhancing the saturation absorption of polyaniline. Optical Materials, 2021, 118, 111272.	1.7	1

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37	A Congruent Melting Infrared Nonlinear Optical Vanadate Exhibiting Strong Second Harmonic Generation. <i>Angewandte Chemie</i> , 2021, 133, 22621-22627.	1.6	11
38	Giant Nonlinear Optical Absorption of Ion Intercalated Tin Disulfide Associated with Abundant In Gap Defects. <i>Advanced Functional Materials</i> , 2021, 31, 2106930.	7.8	14
39	A Congruent Melting Infrared Nonlinear Optical Vanadate Exhibiting Strong Second Harmonic Generation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22447-22453.	7.2	37
40	$Rb_3In(SO_4)_3$: a defluorinated mixed main-group metal sulfate for ultraviolet transparent nonlinear optical materials with a large optical band gap. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5124-5131.	2.7	16
41	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
42	Strong SHG Responses in a Beryllium-Free Deep UV Transparent Hydroxyborate via Covalent Bond Modification. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 27151-27157.	7.2	50
43	Strong SHG Responses in a Beryllium-Free Deep UV Transparent Hydroxyborate via Covalent Bond Modification. <i>Angewandte Chemie</i> , 2021, 133, 27357.	1.6	9
44	From $CeF_2(SO_4)_2 \cdot H_2O$ to $Ce(IO_3)_2(SO_4)$: Defluorinated Homovalent Substitution for Strong Second-Harmonic-Generation Effect and Sufficient Birefringence. <i>Chemistry of Materials</i> , 2021, 33, 9317-9325.	3.2	23
45	Ni loaded on N-doped carbon encapsulated tungsten oxide nanowires as an alkaline-stable electrocatalyst for water reduction. <i>Sustainable Energy and Fuels</i> , 2020, 4, 788-796.	2.5	15
46	Realizing Saturable Absorption and Reverse Saturable Absorption in a PEDOT:PSS Film via Electrical Modulation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48982-48990.	4.0	11
47	$Ba(MoO_2F)_2(XO_3)_2$ (X = Se and Te): First Cases of Noncentrosymmetric Fluorinated Molybdenum Oxide Selenite/Tellurite Through Unary Substitution for Enlarging Band Gaps and Second Harmonic Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49812-49821.	4.0	25
48	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
49	$AGa_3F_6(SeO_3)_2$ (A = Rb, Cs): A New Type of Phase-Matchable Hexagonal Tungsten Oxide Material with Strong Second-Harmonic Generation Responses. <i>Chemistry of Materials</i> , 2020, 32, 6906-6915.	3.2	46
50	Enhancement of Second-Order Optical Nonlinearity in a Lutetium Selenite by Monodentate Anion Partial Substitution. <i>Chemistry of Materials</i> , 2020, 32, 3043-3053.	3.2	40
51	Incorporating rare-earth cations with moderate electropositivity into iodates for the optimized second-order nonlinear optical performance. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2736-2746.	3.0	12
52	$Gd(NO_3)(Se_2O_5) \cdot 3H_2O$: a nitrate selenite nonlinear optical material with a short ultraviolet cutoff edge. <i>Dalton Transactions</i> , 2020, 49, 3253-3259.	1.6	18
53	Vertical Heterostructure of SnS_4 - MoS_2 Synthesized by Sulfur-Preloaded Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7423-7431.	4.0	22
54	Synthesis, crystal structures and optical properties of open-framework gallium phosphates: $NaGa_3F_4(PO_4)_2(H_2O)_2$ and $AGa_2P_2O_7(OH)_3(H_2O)$ (A = K, Rb). <i>Journal of Solid State Chemistry</i> , 2020, 288, 121412.	1.4	1

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55	Ultrafast nonlinear optical response of molybdenum nano-film in wide wavelength range. <i>Optical Materials</i> , 2019, 95, 109244.	1.7	6
56	Vertical Stacking of Copper Sulfide Nanoparticles and Molybdenum Sulfide Nanosheets for Enhanced Nonlinear Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35835-35844.	4.0	7
57	One-step electrodeposition of cerium-doped nickel hydroxide nanosheets for effective oxygen generation. <i>RSC Advances</i> , 2019, 9, 17891-17896.	1.7	20
58	Promoting electrocatalytic activity of cobalt cyclotetraphosphate in full water splitting by titanium-oxide-accelerated surface reconstruction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12457-12467.	5.2	36
59	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
60	Nickel iron carbonate hydroxide hydrate decorated with CeO _x for highly efficient oxygen evolution reaction. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 3449-3458.	1.2	13
61	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
62	Amorphous film of ternary Ni Co P alloy on Ni foam for efficient hydrogen evolution by electroless deposition. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 7872-7880.	3.8	62
63	W-doped MoO ₂ /MoC Hybrids Encapsulated by P-doped Carbon Shells for Enhanced Electrocatalytic Hydrogen Evolution. <i>Energy Technology</i> , 2018, 6, 1707-1714.	1.8	21
64	Nanocomposite of MoO ₂ and MoC loaded on porous carbon as an efficient electrocatalyst for hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 446-453.	3.0	31
65	Nickel-Based (Photo)Electrocatalysts for Hydrogen Production. <i>Advanced Materials</i> , 2018, 30, e1705653.	11.1	66
66	Few-layer tiny nanoflakes of molybdenum sulfide loaded on porous carbon as an efficient electrocatalyst for hydrogen generation. <i>Journal of Alloys and Compounds</i> , 2018, 750, 927-934.	2.8	6
67	Facet-dependent nonlinear optical properties of bismuth oxychloride single-crystal nanosheets. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8709-8716.	2.7	20
68	A Nitrogen Doping Method for CoS ₂ Electrocatalysts with Enhanced Water Oxidation Performance. <i>ACS Catalysis</i> , 2017, 7, 4214-4220.	5.5	181
69	Ultrafast synthesis of molybdenum carbide nanoparticles for efficient hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22805-22812.	5.2	65
70	A Self-Supported Porous Hierarchical Core-Shell Nanostructure of Cobalt Oxide for Efficient Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 8205-8213.	5.5	46
71	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
72	Graphene Porous Foam Loaded with Molybdenum Carbide Nanoparticulate Electrocatalyst for Effective Hydrogen Generation. <i>ChemSusChem</i> , 2016, 9, 855-862.	3.6	49

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73	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
74	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
75	Covalent functionalization of reduced graphene oxide with porphyrin by means of diazonium chemistry for nonlinear optical performance. Scientific Reports, 2016, 6, 23325.	1.6	98
76	Phase separation synthesis of trinickel monophosphide porous hollow nanospheres for efficient hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 10925-10932.	5.2	62
77	The hierarchical nanowires array of iron phosphide integrated on a carbon fiber paper as an effective electrocatalyst for hydrogen generation. Journal of Materials Chemistry A, 2016, 4, 1454-1460.	5.2	120
78	One-pot synthesis of diiron phosphide/nitrogen-doped graphene nanocomposite for effective hydrogen generation. Nano Energy, 2015, 12, 666-674.	8.2	93
79	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
80	Ni ₁₂ P ₅ Nanoparticles as an Efficient Catalyst for Hydrogen Generation via Electrolysis and Photoelectrolysis. ACS Nano, 2014, 8, 8121-8129.	7.3	413
81	Cobalt phosphide nanorods as an efficient electrocatalyst for the hydrogen evolution reaction. Nano Energy, 2014, 9, 373-382.	8.2	478
82	Enhanced photoelectrochemical hydrogen production using silicon nanowires@MoS ₃ . Nano Energy, 2013, 2, 1337-1346.	8.2	69
83	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