

Zhiwu Chen

List of Publications by Year in descending order

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46
papers

1,204
citations

430874

18
h-index

377865

34
g-index

46
all docs

46
docs citations

46
times ranked

1450
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced photocatalytic performance over Bi ₄ Ti ₃ O ₁₂ nanosheets with controllable size and exposed {0 0 1} facets for Rhodamine B degradation. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 698-706.	20.2	212
2	Self-assembled synthesis of oxygen-doped g-C ₃ N ₄ nanotubes in enhancement of visible-light photocatalytic hydrogen. <i>Journal of Energy Chemistry</i> , 2021, 54, 36-44.	12.9	111
3	Chromium-modified Bi ₄ Ti ₃ O ₁₂ photocatalyst: Application for hydrogen evolution and pollutant degradation. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 241-251.	20.2	103
4	A solid-state chemical reduction approach to synthesize graphitic carbon nitride with tunable nitrogen defects for efficient visible-light photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 331-340.	9.4	79
5	Low-temperature preparation of lanthanum-doped BiFeO ₃ crystallites by a sol-gel-hydrothermal method. <i>Ceramics International</i> , 2011, 37, 2359-2364.	4.8	52
6	Improved dielectric properties in Ni^{2+} -doped $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4021-4032.	3.8	45
7	Sol-gel hydrothermal synthesis and enhanced biosensing properties of nanoplated lanthanum-substituted bismuth titanate microspheres. <i>Journal of Materials Chemistry</i> , 2011, 21, 5352.	6.7	41
8	In situ fabrication of niobium pentoxide/graphitic carbon nitride type-II heterojunctions for enhanced photocatalytic hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1951-1959.	9.4	38
9	Ferromagnetism and enhanced photocatalytic activity in Nd doped BiFeO ₃ nanopowders. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9929-9940.	2.2	36
10	Improvement of surge current performances of ZnO varistor ceramics via C ₃ N ₄ -doping. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2390-2395.	5.7	29
11	Hydrothermal synthesis and mechanism and property study of La-doped BiFeO ₃ crystallites. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 1402-1408.	2.2	26
12	Sol-gel-hydrothermal synthesis and conductive properties of Al-doped ZnO nanopowders with controllable morphology. <i>Journal of Alloys and Compounds</i> , 2014, 587, 692-697.	5.5	25
13	Synergism of oxygen vacancies, Ti ³⁺ and N dopants on the visible-light photocatalytic activity of N-doped TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 382, 111928.	3.9	25
14	SnO ₂ -based varistors capable of withstanding surge current. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 851-855.	1.1	24
15	Creation of oxygen vacancies to activate lanthanum-doped bismuth titanate nanosheets for efficient synchronous photocatalytic removal of Cr(VI) and methyl orange. <i>Journal of Molecular Liquids</i> , 2020, 314, 113613.	4.9	24
16	A Facile Method for the Preparation of Colored Bi ₄ Ti ₃ O ₁₂ ^x Nanosheets with Enhanced Visible-Light Photocatalytic Hydrogen Evolution Activity. <i>Nanomaterials</i> , 2018, 8, 261.	4.1	23
17	Piezoelectric and Dielectric Properties of (Bi _{0.5} Na _{0.5})TiO ₃ -Ba(Zr _{0.04} Ti _{0.96})O ₃ Lead-Free Piezoelectric Ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2006, 114, 857-860.	1.3	20
18	A novel ternary MoS ₂ /MoO ₃ /TiO ₂ composite for fast photocatalytic degradation of rhodamine B under visible-light irradiation. <i>New Journal of Chemistry</i> , 2020, 44, 537-542.	2.8	20

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19	Low-temperature preparation of nanoplated bismuth titanate microspheres by a sol-gel-hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2010, 497, 312-315.	5.5	19
20	Enhanced Photocatalytic Activity of Vacuum-activated TiO ₂ Induced by Oxygen Vacancies. <i>Photochemistry and Photobiology</i> , 2018, 94, 472-483.	2.5	19
21	Low-temperature acetone-assisted hydrothermal synthesis and characterization of BiFeO ₃ powders. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4039-4045.	2.2	18
22	Structural, electrical and piezoelectric properties of V-, Nb- and W-substituted CaBi ₄ Ti ₄ O ₁₅ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 3396-3402.	2.2	17
23	Highly Catalytic Selectivity for Hydrogen Peroxide Generation from Oxygen Reduction on Nd-Doped Bi ₄ Ti ₃ O ₁₂ Nanosheets. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24814-24822.	3.1	16
24	Direct electrochemistry of myoglobin immobilized on chitosan-wrapped rod-constructed ZnO microspheres and its application to hydrogen peroxide biosensing. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 923-930.	2.5	15
25	Ethanol-Assisted Hydrothermal Synthesis and Characterization of BiFeO ₃ Nanopowders. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1345-1348.	3.8	15
26	Ferromagnetic and photocatalytic properties of pure BiFeO ₃ powders synthesized by ethylene glycol assisted hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1077-1086.	2.2	13
27	Enhanced photocatalytic performance of Bi ₄ Ti ₃ O ₁₂ nanosheets synthesized by a self-catalyzed fast reaction process. <i>Ceramics International</i> , 2018, 44, 23014-23023.	4.8	13
28	Piezoelectric and dielectric properties of (Na _{0.5} K _{0.5})NbO ₃ -Bi _{0.5} (Na _{0.8} K _{0.2}) _{0.5} TiO ₃ lead-free ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2008, 116, 661-663.	1.1	12
29	Relationship between chemical composition, phase structure and piezoelectric property of BiFeO ₃ -BaTiO ₃ ceramics near morphotropic phase boundary. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 7719-7728.	2.2	12
30	Excellent piezoelectric performance of Bi-compensated 0.69BiFeO ₃ -0.31BaTiO ₃ lead-free piezoceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22637-22644.	2.2	12
31	Solvothermal synthesis and conductive properties of nanorod-constructed Al-doped ZnO microflowers. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1724-1730.	2.2	11
32	Low-temperature preparation of bismuth ferrite microcrystals by a sol-gel-hydrothermal method. <i>Crystal Research and Technology</i> , 2011, 46, 309-314.	1.3	10
33	Multiferroic characterization of 3-phase (1-x) (0.7BiFeO ₃ -0.3CoFe ₂ O ₄)-xPb(Zr,Ti)O ₃ composites with magnetically driven polarization. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156681.	5.5	10
34	Plasmonic Bi metal as a co-catalyst deposited on C-doped Bi ₆ O ₆ (OH) ₃ (NO ₃) ₃ ·1.5H ₂ O for efficient visible light photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112290.	3.9	9
35	Hydrothermal synthesis and characterization of Bi ₄ Ti ₃ O ₁₂ powders. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 264-267.	1.1	8
36	Facile synthesis of BiFeO ₃ nanosheets with enhanced visible-light photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4817-4829.	2.2	8

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37	Comparative Study of Microstructure and Electrical Properties of Varistors Prepared from Plasma Vapor-Phase Reaction Process and French Process ZnO Powders. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3871-3876.	3.8	7
38	Tungsten-doped foam $\text{g-C}_3\text{N}_4$ with improved photocatalytic properties for degradation of pollutant and hydrogen evolution. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1052-1061.	3.8	7
39	Piezoelectric Effect Enhanced Photocatalytic Activity of $\text{Pt/Bi}_{3.4}\text{Gd}_{0.6}\text{Ti}_3\text{O}_{12}$ Plasmonic Photocatalysis. <i>Nanomaterials</i> , 2022, 12, 1170.	4.1	5
40	Hydrothermal synthesis of tetragonal barium titanate nanopowders under moderate conditions. <i>Processing and Application of Ceramics</i> , 2021, 15, 179-183.	0.8	4
41	Temperature dependence of dielectric properties for $\text{Sr}_{0.3}\text{Ba}_{0.7}\text{Bi}_{3.7}\text{La}_{0.3}\text{Ti}_4\text{O}_{15}$ ferroelectric ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 217-220.	1.1	3
42	Nano-porous Al/Au skeleton to support MnO_2 with enhanced performance and electrodeposition adhesion for flexible supercapacitors. <i>RSC Advances</i> , 2021, 11, 21405-21413.	3.6	3
43	Low-Temperature Synthesis of $\text{Bi}_{3.15}\text{Nd}_{0.85}\text{Ti}_3$ Nanoplates by a Sol-Gel Hydrothermal Method. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2042-2045.	3.8	2
44	Hot-pressed $(1-x)[0.9(0.3\text{CoFe}_2\text{O}_4-0.7\text{BiFeO}_3)-0.1\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3]-x$ poly(vinylidene difluoride) multiferroic composites with magnetically driven polarization. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 4806-4818.	2.2	2
45	Phase transition and electrical properties of $\text{BiFe}_{0.97}\text{Ga}_{0.03}\text{O}_3$ \leftrightarrow BaTiO_3 lead-free ceramics. <i>Ferroelectrics</i> , 2021, 583, 143-150.	0.6	1
46	Electrostatic coupling-driven dielectric enhancement of PZT/BTO multilayer thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 18087-18094.	2.2	0