Xiaoyi Wang

List of Publications by Citations

92	12,682	38	96
papers	citations	h-index	g-index
96	14,544	8.6	7.34
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
92	Graphene-based semiconductor photocatalysts. *Chemical Society Reviews*, **2012**, 41, 782-96	58.5	2274
91	Synergetic effect of MoS2 and graphene as cocatalysts for enhanced photocatalytic H2 production activity of TiO2 nanoparticles. *Journal of the American Chemical Society*, **2012**, 134, 6575-8	16.4	2059
90	Preparation and Enhanced Visible-Light Photocatalytic H2-Production Activity of Graphene/C3N4 Composites. *Journal of Physical Chemistry C*, **2011**, 115, 7355-7363	3.8	1511
89	CdS-Based photocatalysts. *Energy and Environmental Science*, **2018**, 11, 1362-1391	35.4	765
88	Graphene-Based Photocatalysts for Solar-Fuel Generation. *Angewandte Chemie - International Edition*, **2015**, 54, 11350-66	16.4	604
87	Graphene-Based Photocatalysts for Hydrogen Generation. *Journal of Physical Chemistry Letters*, **2013**, 4, 753-9	6.4	463
86	Pivotal role of fluorine in enhanced photocatalytic activity of anatase TiO2 nanosheets with dominant (001) facets for the photocatalytic degradation of acetone in air. *Applied Catalysis B: Environmental*, **2010**, 96, 557-564	21.8	456
85	Fabrication and enhanced visible-light photocatalytic activity of carbon self-doped TiO2 sheets with exposed {001} facets. *Journal of Materials Chemistry*, **2011**, 21, 1049-1057		360
84	Nitrogen self-doped nanosized TiO2 sheets with exposed {001} facets for enhanced visible-light photocatalytic activity. *Chemical Communications*, **2011**, 47, 6906-8	5.8	319
83	Graphene-modified nanosized Ag3PO4 photocatalysts for enhanced visible-light photocatalytic activity and stability. *Applied Catalysis B: Environmental*, **2015**, 162, 196-203	21.8	276
82	Hierarchical porous CdS nanosheet-assembled flowers with enhanced visible-light photocatalytic H2-production performance. *Applied Catalysis B: Environmental*, **2013**, 138-139, 299-303	21.8	225
81	Hierarchical Layered WS2 /Graphene-Modified CdS Nanorods for Efficient Photocatalytic Hydrogen Evolution. *ChemSusChem*, **2016**, 9, 996-1002	8.3	223
80	Low-temperature solid-state preparation of ternary CdS/g-C3N4/CuS nanocomposites for enhanced visible-light photocatalytic H2-production activity. *Applied Surface Science*, **2017**, 391, 432-439	6.7	179
79	Ni-based photocatalytic H2-production cocatalysts2. *Chinese Journal of Catalysis*, **2019**, 40, 240-288	11.3	173
78	Crystalline Carbon Nitride Supported Copper Single Atoms for Photocatalytic CO Reduction with Nearly 100% CO Selectivity. *ACS Nano*, **2020**, 14, 10552-10561	16.7	155
77	Roles of MoS2 and Graphene as Cocatalysts in the Enhanced Visible-Light Photocatalytic H2 Production Activity of Multiarmed CdS Nanorods. *ChemCatChem*, **2015**, 7, 943-951	5.2	153
76	Enhanced photocatalytic H-production activity of C-dots modified g-CN/TiO nanosheets composites. *Journal of Colloid and Interface Science*, **2018**, 513, 866-876	9.3	153

75	Enhancement of photocatalytic H2 production activity of CdS nanorods by cobalt-based cocatalyst modification. *Catalysis Science and Technology*, **2016**, 6, 6207-6216	5.5	138
74	Surface and interface engineering of hierarchical photocatalysts. *Applied Surface Science*, **2019**, 471, 43-87	6.7	135
73	Visible-light-driven CdSe quantum dots/graphene/TiO2 nanosheets composite with excellent photocatalytic activity for E. coli disinfection and organic pollutant degradation. *Applied Surface Science*, **2018**, 457, 846-855	6.7	132
72	Two-Dimensional Transition Metal MXene-Based Photocatalysts for Solar Fuel Generation. *Journal of Physical Chemistry Letters*, **2019**, 10, 3488-3494	6.4	125
71	Design and application of active sites in g-C3N4-based photocatalysts. *Journal of Materials Science and Technology*, **2020**, 56, 69-88	9.1	108
70	Plasma-modified TiCT/CdS hybrids with oxygen-containing groups for high-efficiency photocatalytic hydrogen production. *Nanoscale*, **2019**, 11, 18797-18805	7.7	91
69	Constructing functionalized plasmonic gold/titanium dioxide nanosheets with small gold nanoparticles for efficient photocatalytic hydrogen evolution. *Journal of Colloid and Interface Science*, **2019**, 555, 94-103	9.3	91
68	Porous graphitic carbon nitride for solar photocatalytic applications. *Nanoscale Horizons*, **2020**, 5, 765-786	10.8	79
67	Enhanced photocatalytic hydrogen production activity of highly crystalline carbon nitride synthesized by hydrochloric acid treatment. *Chinese Journal of Catalysis*, **2020**, 41, 21-30	11.3	76
66	Crystalline isotype heptazine-/triazine-based carbon nitride heterojunctions for an improved hydrogen evolution. *Applied Catalysis B: Environmental*, **2020**, 268, 118381	21.8	66
65	Single Au Atoms Anchored on Amino-Group-Enriched Graphitic Carbon Nitride for Photocatalytic CO Reduction. *ChemSusChem*, **2020**, 13, 1979-1985	8.3	55
64	Structural engineering of 3D hierarchical Cd0.8Zn0.2S for selective photocatalytic CO2 reduction. *Chinese Journal of Catalysis*, **2021**, 42, 131-140	11.3	54
63	Plasma-based surface modification of g-C3N4 nanosheets for highly efficient photocatalytic hydrogen evolution. *Applied Surface Science*, **2019**, 495, 143520	6.7	52
62	Highly crystalline carbon nitride hollow spheres with enhanced photocatalytic performance. *Chinese Journal of Catalysis*, **2021**, 42, 627-636	11.3	50
61	One-Step Solid-Phase Synthesis of 2D Ultrathin CdS Nanosheets for Enhanced Visible-Light Photocatalytic Hydrogen Evolution. *Solar Rrl*, **2019**, 3, 1900062	7.1	48
60	Enhanced ferromagnetic properties of low temperature sintering LiZnTi ferrites with Li2OB2O3SiO2CaOAl2O3 glass addition. *Journal of Alloys and Compounds*, **2015**, 620, 421-426	5.7	48
59	Amine-functionalized graphitic carbon nitride decorated with small-sized Au nanoparticles for photocatalytic CO reduction. *Journal of Colloid and Interface Science*, **2020**, 570, 11-19	9.3	46
58	Interfacial modification of titanium dioxide to enhance photocatalytic efficiency towards H production. *Journal of Colloid and Interface Science*, **2019**, 556, 376-385	9.3	44

57	Controllably degradable transient electronic antennas based on water-soluble PVA/TiO2 films. *Journal of Materials Science*, **2018**, 53, 2638-2647	4.3	43
56	Nanosheet-assembled hierarchical flower-like g-CN for enhanced photocatalytic CO reduction activity. *Chemical Communications*, **2020**, 56, 2443-2446	5.8	42
55	Truncated octahedral bipyramidal TiO2/MXene Ti3C2 hybrids with enhanced photocatalytic H2 production activity. *Nanoscale Advances*, **2019**, 1, 1812-1818	5.1	38
54	Low Temperature Firing of Li0.43Zn0.27Ti0.13Fe2.17O4 Ferrites with Enhanced Magnetic Properties. *Journal of the American Ceramic Society*, **2015**, 98, 2556-2560	3.8	38
53	Construction of an Ultrathin S-Scheme Heterojunction Based on Few-Layer g-C3N4 and Monolayer Ti3C2Tx MXene for Photocatalytic CO2 Reduction. *Solar Rrl*, **2021**, 5, 2000351	7.1	38
52	Enhanced visible-photocatalytic activity of anodic TiO2 nanotubes film via decoration with CuInSe2 nanocrystals. *ACS Applied Materials & Interfaces*, **2013**, 5, 11022-8	9.5	37
51	Carbon-Graphitic Carbon Nitride Hybrids for Heterogeneous Photocatalysis. *Small*, **2021**, 17, e2005231	11	37
50	Synthesis of Highly Uniform and Compact Lithium Zinc Ferrite Ceramics via an Efficient Low Temperature Approach. *Inorganic Chemistry*, **2017**, 56, 4513-4521	5.1	35
49	Activating the single-crystal TiO2 nanoparticle film with exposed {001} facets. *ACS Applied Materials & Interfaces*, **2013**, 5, 6463-6	9.5	35
48	Li2O-B2O3-SiO2-CaO-Al2O3 and Bi2O3 co-doped gyromagnetic Li0.43Zn0.27Ti0.13Fe2.17O4 ferrite ceramics for LTCC Technology. *Ceramics International*, **2016**, 42, 16198-16204	5.1	30
47	Transition-Metal-Ion (Fe, Co, Cr, Mn, Etc.) Doping of TiO Nanotubes: A General Approach. *Inorganic Chemistry*, **2019**, 58, 12511-12515	5.1	26
46	Targeted regulation of exciton dissociation in graphitic carbon nitride by vacancy modification for efficient photocatalytic CO2 reduction. *Applied Catalysis B: Environmental*, **2021**, 292, 120179	21.8	26
45	A Facile Method for Preparation of CuO-TiO NTA Heterojunction with Visible-Photocatalytic Activity. *Nanoscale Research Letters*, **2018**, 13, 221	5	25
44	Review of Water-Assisted Crystallization for TiO Nanotubes. *Nano-Micro Letters*, **2018**, 10, 77	19.5	24
43	Investigation of grain boundary diffusion and grain growth of lithium zinc ferrites with low activation energy. *Journal of the American Ceramic Society*, **2018**, 101, 5037-5045	3.8	23
42	Densification and magnetic properties of NiCuZn low-sintering temperature ferrites with Bi2O3-Nb2O5 composite additives. *Journal of Alloys and Compounds*, **2019**, 776, 954-959	5.7	21
41	Construction of efficient active sites through cyano-modified graphitic carbon nitride for photocatalytic CO2 reduction. *Chinese Journal of Catalysis*, **2021**, 42, 1608-1616	11.3	21
40	Synthesis and photocatalytic H2-production activity of plasma-treated Ti3C2Tx MXene modified graphitic carbon nitride. *Journal of the American Ceramic Society*, **2020**, 103, 849-858	3.8	20

39	Low-temperature sintering and ferrimagnetic properties of LiZnTiMn ferrites with Bi2O3-CuO eutectic mixture. *Journal of Alloys and Compounds*, **2017**, 695, 3233-3238	5.7	17
38	Magnetic properties and microstructure of low temperature sintered LiZnMnTi ferrites doped with Li2CO3B2O3Bi2O3SiO2 glasses. *Journal of Alloys and Compounds*, **2016**, 680, 729-734	5.7	16
37	Ultralow loss and temperature stability of Li3Mg2NbO6-xLiF ceramics with low sintering temperature. *Journal of Alloys and Compounds*, **2019**, 782, 370-374	5.7	16
36	Enhanced stability of lead-free perovskite heterojunction for photovoltaic applications. *Journal of Materials Science*, **2018**, 53, 4378-4386	4.3	16
35	Ferromagnetism at room temperature in Cr-doped anodic titanium dioxide nanotubes. *Journal of Applied Physics*, **2014**, 115, 17C304	2.5	15
34	Lotus leaf as solar water evaporation devices. *Materials Letters*, **2019**, 240, 92-95	3.3	15
33	Recent advances in crystalline carbon nitride for photocatalysis. *Journal of Materials Science and Technology*, **2021**, 91, 224-240	9.1	15
32	Low temperature sintering and ferromagnetic properties of Li0.43Zn0.27Ti0.13Fe2.17O4 ferrites doped with BaO-ZnO-B2O3-SiO2 glass. *Journal of Alloys and Compounds*, **2016**, 654, 140-145	5.7	13
31	Low-temperature sintering and ferromagnetic properties of Li0.35Zn0.30Mn0.05Ti0.15Fe2.15O4 ferrites co-fired with Bi2O3-MgO mixture. *Journal of Alloys and Compounds*, **2019**, 797, 566-572	5.7	13
30	Dispersion of LiZnTiBi ferrite particles into PMDS film for miniaturized flexible antenna application. *Ceramics International*, **2019**, 45, 8914-8918	5.1	13
29	Open-top TiO2 nanotube arrays with enhanced photovoltaic and photochemical performances via a micromechanical cleavage approach. *Journal of Materials Chemistry A*, **2015**, 3, 14279-14283	13	13
28	Synthesis of V2O5-Doped and low-sintered NiCuZn ferrite with uniform grains and enhanced magnetic properties. *Ceramics International*, **2020**, 46, 10652-10657	5.1	12
27	Enhanced electron collection in photoanode based on ultrafine TiO2 nanotubes by a rapid anodization process. *Journal of Solid State Electrochemistry*, **2014**, 18, 2087-2098	2.6	12
26	2D/2D BiVO4/CsPbBr3 S-scheme heterojunction for photocatalytic CO2 reduction: Insights into structure regulation and Fermi level modulation. *Applied Catalysis B: Environmental*, **2022**, 304, 120979	21.8	12
25	Low-temperature sintering synthesis and electromagnetic properties of NiCuZn/BaTiO3 composite materials. *Journal of Alloys and Compounds*, **2019**, 788, 44-49	5.7	10
24	Hydrogen evolution promotion of Au-nanoparticles-decorated TiO2 nanotube arrays prepared by dip-loading approach. *Journal of the American Ceramic Society*, **2019**, 102, 5873-5880	3.8	10
23	Synthesis, crystal structure and low loss of Li3Mg2NbO6 ceramics by reaction sintering process. *Ceramics International*, **2019**, 45, 19766-19770	5.1	10
22	Effect of ZnO-B2O3-SiO2 glass additive on magnetic properties of low-sintering Li0.43Zn0.27Ti0.13Fe2.17O4 ferrites. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 811-817	2.1	9

21	Low-temperature sintering and magnetic properties of MABS glass doped Li0.35Zn0.30Mn0.05Ti0.1Fe2.05O4 ferrites. *Journal of Alloys and Compounds*, **2018**, 764, 834-839	5.7	9
20	Influence of LZN nanoparticles on microstructure and magnetic properties of bi-substituted LiZnTi low-sintering temperature ferrites. *Ceramics International*, **2019**, 45, 1946-1949	5.1	9
19	Construction 0D/2D heterojunction by highly dispersed AgS quantum dots (QDs) loaded on the g-CN nanosheets for photocatalytic hydrogen evolution. *Journal of Colloid and Interface Science*, **2022**, 607, 662-675	9.3	9
18	Investigation of grain growth and magnetic properties of low-sintered LiZnTi ferrite-ceramic. *Ceramics International*, **2020**, 46, 14669-14673	5.1	8
17	Grain growth, densification, and gyromagnetic properties of LiZnTi ferrites with H3BO3-Bi2O3-SiO2-ZnO glass addition. *Journal of Applied Physics*, **2014**, 115, 17A511	2.5	8
16	Ferrite ceramic filled poly-dimethylsiloxane composite with enhanced magnetic-dielectric properties as substrate material for flexible electronics. *Ceramics International*, **2021**, 47, 18246-18251	5.1	8
15	Effects of Bi2O3 and Li2O B2O3Bi2O3SiO2 glass on electromagnetic properties of NiCuZn/BaTiO3 composite material at low sintering temperature. *Ceramics International*, **2019**, 45, 11342-11346	5.1	7
14	Microstructure, magnetic-dielectric properties of flexible composite film for high frequency applications. *Ceramics International*, **2019**, 45, 6350-6355	5.1	7
13	Crystalline Intramolecular Ternary Carbon Nitride Homojunction for Photocatalytic Hydrogen Evolution. *ACS Catalysis*,6345-6358	13.1	7
12	Fabrication of Heterostructured Metal Oxide/TiO Nanotube Arrays Prepared via Thermal Decomposition and Crystallization. *Inorganic Chemistry*, **2018**, 57, 10249-10256	5.1	6
11	Accordion-like composite of carbon-coated Fe3O4 nanoparticle decorated Ti3C2 MXene with enhanced electrochemical performance. *Journal of Materials Science*, **2021**, 56, 2486-2496	4.3	6
10	Copper and platinum dual-single-atoms supported on crystalline graphitic carbon nitride for enhanced photocatalytic CO2 reduction. *Chinese Journal of Catalysis*, **2022**, 43, 451-460	11.3	5
9	A Facile Method for Loading CeO Nanoparticles on Anodic TiO Nanotube Arrays. *Nanoscale Research Letters*, **2018**, 13, 89	5	4
8	UV Radiation Cumulative Recording Based on Amorphous TiO Nanotubes. *ACS Sensors*, **2019**, 4, 2429-2434	9.1	2
7	In situ oxidation of ultrathin Ti3C2Tx MXene modified with crystalline g-C3N4 nanosheets for photocatalytic H2 evolution. *International Journal of Hydrogen Energy*, **2021**, 47, 4546-4546	6.7	2
6	A practical method for fabricating perovskite solar cells with remarkable water resistance via additive engineering. *Molecular Systems Design and Engineering*, **2018**, 3, 729-733	4.6	1
5	Effects of Bi2O3-V2O5 mixture on microstructure and magnetic properties for Li0.42Zn0.27Ti0.11Mn0.1Fe2.1O4 ferrites sintered at low temperatures. *Journal of Alloys and Compounds*, **2021**, 885, 160983	5.7	1
4	Cu clusters immobilized on Cd-defective cadmium sulfide nano-rods towards photocatalytic CO2 reduction. *Journal of Materials Science and Technology*, **2022**, 118, 54-63	9.1	1

3	Enhanced magnetic properties of low-temperature sintered LiZnTiMn ferrites with Bi2O3 NiO additive. *Journal of Materials Science: Materials in Electronics*,1	2.1	0
2	Preparation and Optical Properties of GeBi Films by Using Molecular Beam Epitaxy Method. *Nanoscale Research Letters*, **2017**, 12, 634	5	
1	Design and Development of a Solar Water Purification System with Graphene-Plasmonic Based Hybrid Nanocomposites: A Review.. *Recent Patents on Nanotechnology*, **2022**, 16, 30-44	1.2	