

Xipengpu Pu

List of Publications by Year in descending order

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92
papers

4,765
citations

61857

43
h-index

106150

65
g-index

92
all docs

92
docs citations

92
times ranked

3935
citing authors

#	ARTICLE	IF	CITATIONS
1	Combustion synthesis of graphene oxide@TiO ₂ hybrid materials for photodegradation of methyl orange. <i>Carbon</i> , 2012, 50, 4093-4101.	5.4	218
2	A novel Ag ₂ O/g-C ₃ N ₄ p-n heterojunction photocatalysts with enhanced visible and near-infrared light activity. <i>Separation and Purification Technology</i> , 2019, 210, 786-797.	3.9	188
3	BiVO ₄ /Bi ₄ Ti ₃ O ₁₂ heterojunction enabling efficient photocatalytic reduction of CO ₂ with H ₂ O to CH ₃ OH and CO. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118876.	10.8	179
4	A novel magnetically separable CoFe ₂ O ₄ /Cd _{0.9} Zn _{0.1} S photocatalyst with remarkably enhanced H ₂ evolution activity under visible light irradiation. <i>Chemical Engineering Journal</i> , 2019, 359, 485-495.	6.6	176
5	AgFeO ₂ Nanoparticle/ZnIn ₂ S ₄ Microsphere Heterojunctions with Hierarchical Nanostructures for Efficient Visible-Light-Driven H ₂ Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2673-2683.	3.2	156
6	Coralline-like Ni ₂ P decorated novel tetrapod-bundle Cd _{0.9} Zn _{0.1} S ZB/WZ homojunctions for highly efficient visible-light photocatalytic hydrogen evolution. <i>Chinese Journal of Catalysis</i> , 2021, 42, 439-449.	6.9	130
7	Highly efficient visible/NIR photocatalytic activity and mechanism of Yb ³⁺ /Er ³⁺ co-doped Bi ₄ O ₅ I ₂ up-conversion photocatalyst. <i>Separation and Purification Technology</i> , 2020, 248, 117040.	3.9	129
8	One-pot microwave-assisted combustion synthesis of graphene oxide@TiO ₂ hybrids for photodegradation of methyl orange. <i>Journal of Alloys and Compounds</i> , 2013, 551, 382-388.	2.8	111
9	One-dimensional core-shell Zn _{0.1} Cd _{0.9} S/SnIn ₄ S ₈ heterojunction for enhanced visible light photocatalytic degradation. <i>Separation and Purification Technology</i> , 2020, 230, 115896.	3.9	111
10	Fabrication of MIL-88A/g-C ₃ N ₄ direct Z-scheme heterojunction with enhanced visible-light photocatalytic activity. <i>Separation and Purification Technology</i> , 2019, 220, 16-24.	3.9	96
11	Enhanced electromagnetic wave absorption performances of Co ₃ O ₄ nanocube/reduced graphene oxide composite. <i>Synthetic Metals</i> , 2014, 194, 52-58.	2.1	95
12	Use of synergistic effects of the co-catalyst, p-n heterojunction, and porous structure for improvement of visible-light photocatalytic H ₂ evolution in porous Ni ₂ O ₃ /Mn _{0.2} Cd _{0.8} S/Cu ₃ P@Cu ₂ S. <i>Journal of Alloys and Compounds</i> , 2020, 845, 155569.	2.8	93
13	Noble metal-free ternary MoS ₂ /Zn _{0.5} Cd _{0.5} S/g-C ₃ N ₄ heterojunction composite for highly efficient photocatalytic H ₂ production. <i>Materials Research Bulletin</i> , 2019, 110, 214-222.	2.7	91
14	Enhanced charges separation to improve hydrogen production efficiency by organic piezoelectric film polarization. <i>Journal of Alloys and Compounds</i> , 2021, 869, 159390.	2.8	82
15	Deposition-precipitation synthesis of Yb ³⁺ /Er ³⁺ co-doped BiOBr/AgBr heterojunction photocatalysts with enhanced photocatalytic activity under Vis/NIR light irradiation. <i>Separation and Purification Technology</i> , 2020, 238, 116450.	3.9	80
16	One-pot combustion synthesis of BiVO ₄ /BiOCl composites with enhanced visible-light photocatalytic properties. <i>Separation and Purification Technology</i> , 2017, 174, 97-103.	3.9	76
17	Combustion synthesis of Fe-doped BiOCl with high visible-light photocatalytic activities. <i>Separation and Purification Technology</i> , 2016, 162, 114-119.	3.9	75
18	One-pot combustion synthesis and efficient broad spectrum photoactivity of Bi _{1-x} Bi _x O ₃ :Yb,Er/C photocatalyst. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3424-3436.	1.9	74

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19	0D/3D ZnIn ₂ S ₄ /Ag ₆ Si ₂ O ₇ nanocomposite with direct Z-scheme heterojunction for efficient photocatalytic H ₂ evolution under visible light. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28043-28052.	3.8	74
20	Highly efficient photocatalytic H ₂ evolution using the Ni ₂ P-Zn _{0.5} Cd _{0.5} S photocatalyst under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2018, 769, 889-897.	2.8	73
21	Facile in situ chemical transformation synthesis, boosted charge separation, and increased photocatalytic activity of BiPO ₄ /BiOCl p-n heterojunction photocatalysts under simulated sunlight irradiation. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 147, 109630.	1.9	73
22	Synthesis and enhanced piezophotocatalytic activity of Ag ₂ O/K _{0.5} Na _{0.5} NbO ₃ composites. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 139, 109326.	1.9	70
23	Fabrication and characterization of BiOBr:Yb ³⁺ ,Er ³⁺ /g-C ₃ N ₄ p-n junction photocatalysts with enhanced visible-NIR-light-driven photoactivities. <i>Separation and Purification Technology</i> , 2018, 206, 69-79.	3.9	68
24	Facile hydrothermal synthesis of Bi/BiOBr composites with enhanced visible-light photocatalytic activities for the degradation of rhodamine B. <i>Separation and Purification Technology</i> , 2015, 154, 211-216.	3.9	64
25	Synthesis of Ag ₂ O/NaNbO ₃ p-n junction photocatalysts with improved visible light photocatalytic activities. <i>Separation and Purification Technology</i> , 2017, 178, 130-137.	3.9	64
26	Fabrication of a NiCo ₂ O ₄ /Zn _{0.1} Cd _{0.9} S p-n heterojunction photocatalyst with improved separation of charge carriers for highly efficient visible light photocatalytic H ₂ evolution. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151855.	2.8	64
27	Snowflake-like Cu ₂ S/Zn _{0.5} Cd _{0.5} S p-n heterojunction photocatalyst for enhanced visible light photocatalytic H ₂ evolution activity. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 487-495.	2.7	64
28	Development of Glucose Sensor Using Gold Nanoparticles and Glucose-Oxidase Functionalized Tapered Fiber Structure. <i>Plasmonics</i> , 2020, 15, 841-848.	1.8	64
29	Growing ZnIn ₂ S ₄ nanosheets on FeWO ₄ flowers with p-n heterojunction structure for efficient photocatalytic H ₂ production. <i>Applied Surface Science</i> , 2022, 591, 153256.	3.1	64
30	Two-phase hydrothermal synthesis of TiO ₂ @graphene hybrids with improved photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2013, 572, 199-204.	2.8	61
31	Synthesis of direct Z-scheme g-C ₃ N ₄ /Ag ₂ VO ₂ PO ₄ photocatalysts with enhanced visible light photocatalytic activity. <i>Separation and Purification Technology</i> , 2018, 195, 332-338.	3.9	59
32	One-dimensional rod-shaped Ag ₂ Mo ₂ O ₇ /BiOI n-n junctions for efficient photodegradation of tetracycline and rhodamine B under visible light. <i>Journal of Alloys and Compounds</i> , 2022, 912, 165184.	2.8	59
33	Magnetic NiFe ₂ O ₄ /BiOBr composites: One-pot combustion synthesis and enhanced visible-light photocatalytic properties. <i>Separation and Purification Technology</i> , 2016, 158, 302-307.	3.9	56
34	Noble metal-free 0D@1D NiCoP/Mn _{0.3} Cd _{0.7} S nanocomposites for highly efficient photocatalytic H ₂ evolution under visible-light irradiation. <i>Nanotechnology</i> , 2020, 31, 305701.	1.3	56
35	A novel method for the synthesis of Ag ₃ VO ₄ /Ag ₂ VO ₂ PO ₄ heterojunction photocatalysts with improved visible-light photocatalytic properties. <i>Separation and Purification Technology</i> , 2018, 206, 149-157.	3.9	55
36	Fabrication of magnetically recoverable Ag/CuNb ₂ O ₆ /CuFe ₂ O ₄ ternary heterojunction composite for highly efficient photocatalytic degradation of pollutants. <i>Separation and Purification Technology</i> , 2019, 220, 78-88.	3.9	55

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37	Ultra-Sensitive Cholesterol Sensor Using Gold and Zinc-Oxide Nanoparticles Immobilized Core Mismatch MPM/SPS Probe. <i>Journal of Lightwave Technology</i> , 2020, 38, 2523-2529.	2.7	55
38	Combustion Synthesis of BiOCl with Tunable Percentage of Exposed {001} Facets and Enhanced Photocatalytic Properties. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1515-1519.	1.9	52
39	A novel direct Z-scheme heterojunction BiFeO ₃ /ZnFe ₂ O ₄ photocatalyst for enhanced photocatalyst degradation activity under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2022, 912, 165185.	2.8	52
40	Combustion synthesis of magnetic Ag/NiFe ₂ O ₄ composites with enhanced visible-light photocatalytic properties. <i>Separation and Purification Technology</i> , 2014, 137, 82-85.	3.9	51
41	BiOBr photocatalysts with tunable exposing proportion of {001} facets: Combustion synthesis, characterization, and high visible-light photocatalytic properties. <i>Materials Letters</i> , 2015, 140, 31-34.	1.3	51
42	Z-scheme BiOCl/Bi ²⁺ Bi ₂ O ₃ heterojunction with oxygen vacancy for excellent degradation performance of antibiotics and dyes. <i>Journal of Materials Science</i> , 2020, 55, 4017-4029.	1.7	51
43	Combustion synthesis of Bi/BiOCl composites with enhanced electron-hole separation and excellent visible light photocatalytic properties. <i>Separation and Purification Technology</i> , 2015, 149, 288-294.	3.9	48
44	Fabrication of BiOBr-silicone aerogel photocatalyst in an aqueous system with degradation performance by sol-gel method. <i>Science China Technological Sciences</i> , 2020, 63, 859-865.	2.0	44
45	Enhanced photocatalytic degradation of Rhodamine B by reduced graphene oxides wrapped-Cu ₂ SnS ₃ flower-like architectures. <i>Journal of Alloys and Compounds</i> , 2017, 704, 469-477.	2.8	43
46	Hollow mesoporous g-C ₃ N ₄ /Ag ₂ CrO ₄ photocatalysis with direct Z-scheme: Excellent degradation performance for antibiotics and dyes. <i>Separation and Purification Technology</i> , 2021, 270, 118797.	3.9	43
47	Preparation of magnetically retrievable flower-like AgBr/BiOBr/NiFe ₂ O ₄ direct Z-scheme heterojunction photocatalyst with enhanced visible-light photoactivity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 633, 127880.	2.3	43
48	Fabrication of superhydrophobic Cu-BiOBr surface for oil/water separation and water soluble pollutants degradation. <i>Applied Surface Science</i> , 2018, 462, 583-589.	3.1	41
49	Surface decoration of BiOBr with BiPO ₄ nanoparticles to build heterostructure photocatalysts with enhanced visible-light photocatalytic activity. <i>Separation and Purification Technology</i> , 2016, 170, 183-189.	3.9	39
50	Novel one-step combustion synthesis of BiOBr:Yb ³⁺ ,Er ³⁺ /AgBr upconversion heterojunction photocatalysts with enhanced vis/NIR photocatalytic activities. <i>Catalysis Science and Technology</i> , 2019, 9, 2103-2110.	2.1	39
51	One-step fast electrochemical fabrication of water-dispersible graphene. <i>Carbon</i> , 2017, 111, 617-621.	5.4	38
52	One-step combustion synthesis of CoFe ₂ O ₄ @graphene hybrid materials for photodegradation of methylene blue. <i>Materials Letters</i> , 2013, 113, 179-181.	1.3	37
53	Microwave-assisted combustion synthesis of Ag/ZnO nanocomposites and their photocatalytic activities under ultraviolet and visible-light irradiation. <i>Materials Research Bulletin</i> , 2015, 61, 321-325.	2.7	37
54	Combustion Synthesis and Enhancement of BiOCl by Doping Eu ³⁺ for Photodegradation of Organic Dye. <i>Journal of the American Ceramic Society</i> , 2016, 99, 881-887.	1.9	36

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55	Microwave-assisted hydrothermal synthesis of broadband Yb ³⁺ /Er ³⁺ co-doped BiOI/Bi ₂ O ₄ photocatalysts with synergistic effects of upconversion and direct Z-scheme heterojunction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129276.	2.3	33
56	A durable superhydrophobic BiOBr/PFW cotton fabric for visible light response degradation and oil/water separation performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 585, 124027.	2.3	30
57	Combustion synthesis and luminescence properties of NaY _{1-x} Eux(WO ₄) ₂ phosphors. <i>Journal of Luminescence</i> , 2011, 131, 1692-1695.	1.5	29
58	Effect of Crystallite Size and Crystallinity on Photoluminescence Properties and Energy Transfer of Y ₆ MoO ₁₂ :Eu. <i>Journal of the American Ceramic Society</i> , 2016, 99, 954-961.	1.9	29
59	Band-Gap Tuning of Organic-Inorganic Hybrid Palladium Perovskite Materials for a Near-Infrared Optoelectronics Response. <i>ACS Omega</i> , 2018, 3, 13960-13966.	1.6	29
60	Tuning Ni-Foam into NiOOH/FeOOH Heterostructures toward Superior Water Oxidation Catalyst via Three-Step Strategy. <i>ACS Omega</i> , 2018, 3, 11009-11017.	1.6	29
61	Combustion synthesis of Zn _{1-x} CdxS and its photodegradation performance of methylene blue. <i>Materials Letters</i> , 2014, 117, 158-161.	1.3	28
62	Thermal regeneration of recyclable reduced graphene oxide/Fe ₃ O ₄ composites with improved adsorption properties. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1859-1865.	1.6	28
63	Combustion synthesis of CdS/reduced graphene oxide composites and their photocatalytic properties. <i>Materials Research Bulletin</i> , 2014, 57, 29-34.	2.7	26
64	Edge/Defect-Rich, Metallic, and Oxygen-Heteroatom-Doped WS ₂ Superstructure with Superior Electrocatalytic Performance for Green Solar Energy Conversion. <i>ChemSusChem</i> , 2019, 12, 795-800.	3.6	23
65	Facile Synthesis of BiOBr/Bi ₂ Sn ₂ O ₇ Heterojunction Photocatalysts with Improved Photocatalytic Activities. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3973-3979.	1.9	22
66	Characterization of high concentration Ga-doped ZnO nano-powders prepared by sol-gel combustion. <i>Materials Letters</i> , 2013, 112, 129-132.	1.3	21
67	Earth-abundant and environment friendly organic-inorganic hybrid tetrachloroferrate salt CH ₃ NH ₃ FeCl ₄ : structure, adsorption properties and photoelectric behavior. <i>RSC Advances</i> , 2018, 8, 19958-19963.	1.7	21
68	One-step combustion synthesis of NiFe ₂ O ₄ -reduced graphene oxide hybrid materials for photodegradation of methylene blue. <i>Functional Materials Letters</i> , 2014, 07, 1350065.	0.7	20
69	Construction of direct Z-scheme system for enhanced visible light photocatalytic activity based on Zn _{0.1} Cd _{0.9} S/FeWO ₄ heterojunction. <i>Nanotechnology</i> , 2019, 30, 475704.	1.3	20
70	Facial synthesis of a novel Ag ₄ V ₂ O ₇ /g-C ₃ N ₄ heterostructure with highly efficient photoactivity. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3897-3907.	1.9	20
71	Performance study of foam ceramics prepared by direct foaming method using red mud and K-feldspar washed waste. <i>Ceramics International</i> , 2022, 48, 5197-5203.	2.3	20
72	Visible light activation of superhydrophobic BiOBr/Ag loaded copper mesh for degradation and their use in oil/water separation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 102, 233-241.	2.7	19

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73	Magnetically separable $\text{NiFe}_2\text{O}_4/\text{Ag}_3\text{VO}_4/\text{Ag}_2\text{VO}_4$ direct Z-scheme heterostructure with enhanced visible-light photoactivity. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 2976-2985.	1.6	19
74	Fabrication of $\text{CdS}/\text{Zn}_2\text{GeO}_4$ heterojunction with enhanced visible-light photocatalytic H_2 evolution activity. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28649-28655.	3.8	17
75	A mesoporous $\text{SiO}_2/\text{TiO}_2$ composite used for various emulsions separation. <i>Separation Science and Technology</i> , 2019, 54, 962-969.	1.3	17
76	A novel method for the synthesis of $\text{BiOCl}/\text{Bi}_2\text{Sn}_2\text{O}_7$ heterojunction photocatalysts with enhanced visible light photocatalytic properties. <i>Nanotechnology</i> , 2016, 27, 385602.	1.3	16
77	Facile one-step hydrothermal synthesis and luminescence properties of Eu^{3+} -doped $\text{NaGd}(\text{WO}_4)_2$ nanophosphors. <i>Materials Chemistry and Physics</i> , 2017, 193, 227-233.	2.0	16
78	Bi and oxygen defects improved visible light photocatalysis with BiOBr nanosheets. <i>Nanotechnology</i> , 2020, 31, 495405.	1.3	14
79	2D Schottky Junction between Graphene Oxide and Transition-Metal Dichalcogenides: Photoresponsive Properties and Electrocatalytic Performance. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801657.	1.9	13
80	Combustion synthesis and photocatalytic properties of magnetically separable $\text{Zn}_{1-x}\text{Cd}_x\text{S}/\text{Fe}_2\text{O}_3$ composites. <i>Materials Letters</i> , 2014, 130, 94-96.	1.3	11
81	Accelerated charge transfer of $\text{Cd}_{0.5}\text{Zn}_{0.5}\text{S}@ \text{ZnS}$ core-shell nano-spheres via decoration of Ni_2P and $\text{g-C}_3\text{N}_4$ toward efficient visible-light-driven H_2 production. <i>Dalton Transactions</i> , 2020, 49, 6259-6269.	1.6	11
82	Rapid synthesis of ZnO ellipsoidal nanostructures in large scale and their photoluminescence properties. <i>Materials Letters</i> , 2009, 63, 2290-2293.	1.3	10
83	One-pot molten salt synthesis of $\text{CdNb}_2\text{O}_6/\text{Cd}_2\text{Nb}_2\text{O}_7$ heterojunction photocatalysts with enhanced photocatalytic properties. <i>Separation and Purification Technology</i> , 2017, 186, 282-289.	3.9	10
84	Magnetically separable $\text{Fe}_3\text{O}_4@\text{C}/\text{BiOBr}$ heterojunction for the enhanced visible light-driven photocatalytic performance. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	10
85	Influence of Initial $\text{Cu}/(\text{Zn}+\text{Sn})$ Concentration Ratio in Cu-Zn-Sn Composites on Their Microstructures, Adsorption and Visible-Light-Sensitive Photocatalytic Activities. <i>Science of Advanced Materials</i> , 2018, 10, 1381-1388.	0.1	10
86	Facile synthesis of superhydrophobic $\text{ZIF-8}/\text{bismuth oxybromide}$ photocatalyst aerogel for oil/water separation and hazardous pollutant degradation. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1409-1419.	1.6	9
87	Nano-flower like NiO modified BiOBr composites with direct Z-scheme: Improved visible light degradation activity for dyes. <i>Journal of Solid State Chemistry</i> , 2022, 306, 122715.	1.4	8
88	TiO_2 -coated copper zinc tin sulfide photocatalyst for efficient photocatalytic decolorization of dye-containing wastewater. <i>Materials Chemistry and Physics</i> , 2020, 256, 123559.	2.0	7
89	Combustion synthesis of $\text{Li}_8\text{Bi}_2(\text{MoO}_4)_7$ and its visible light photocatalytic properties. <i>Materials Letters</i> , 2015, 144, 150-152.	1.3	6
90	Hydrothermal synthesis and luminescence properties of $\text{Y}_2\text{O}_6(\text{OH})_3:\text{Tb}^{3+}$ green phosphors. <i>Journal of Rare Earths</i> , 2011, 29, 628-631.	2.5	4

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91	One-Pot Synthesis and DFT Calculations of TiO ₂ /BiOCl/Bi Heterostructure Photocatalyst with Oxygen Vacancies and Bi Metal Induced by Ti Doping. Particle and Particle Systems Characterization, 2022, 39, .	1.2	4
92	Freezing-mediated polymerization of Ag nanoparticle-embedded polyaniline belts with polyoxometalate as doping acid exhibiting UV-photosensitivity. RSC Advances, 2016, 6, 46475-46478.	1.7	3