

Wenzhong Wang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

202 papers	16,323 citations	73 h-index	122 g-index
204 ext. papers	17,778 ext. citations	8.3 avg, IF	6.97 L-index

#	Paper	IF	Citations
202	Bi ₂ WO ₆ nano- and microstructures: shape control and associated visible-light-driven photocatalytic activities. <i>Small</i> , 2007 , 3, 1618-25	11	525
201	Shape evolution and size-controllable synthesis of Cu ₂ O octahedra and their morphology-dependent photocatalytic properties. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13829-34	3.4	489
200	Template synthesis of multishelled Cu ₂ O hollow spheres with a single-crystalline shell wall. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1489-92	16.4	445
199	Synthesis and enhanced photocatalytic performance of graphene-Bi ₂ WO ₆ composite. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2887-93	3.6	412
198	Fabrication of flower-like Bi ₂ WO ₆ superstructures as high performance visible-light driven photocatalysts. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2526		412
197	Bi ₂ O ₃ hierarchical nanostructures: controllable synthesis, growth mechanism, and their application in photocatalysis. <i>Chemistry - A European Journal</i> , 2009 , 15, 1776-82	4.8	370
196	Enhancement of visible-light photocatalysis by coupling with narrow-band-gap semiconductor: a case study on Bi ₂ S ₃ /Bi ₂ WO ₆ . <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 593-7	9.5	362
195	Sonochemical synthesis of nanocrystallite Bi ₂ O ₃ as a visible-light-driven photocatalyst. <i>Applied Catalysis A: General</i> , 2006 , 308, 105-110	5.1	318
194	Preparation of BiOBr lamellar structure with high photocatalytic activity by CTAB as Br source and template. <i>Journal of Hazardous Materials</i> , 2009 , 167, 803-9	12.8	313
193	A sonochemical route to visible-light-driven high-activity BiVO ₄ photocatalyst. <i>Journal of Molecular Catalysis A</i> , 2006 , 252, 120-124		309
192	Photoreduction of CO ₂ on BiOCl nanoplates with the assistance of photoinduced oxygen vacancies. <i>Nano Research</i> , 2015 , 8, 821-831	10	266
191	3D Bi ₂ WO ₆ /TiO ₂ Hierarchical Heterostructure: Controllable Synthesis and Enhanced Visible Photocatalytic Degradation Performances. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14727-14731	3.8	247
190	Preparation of p-n junction Cu ₂ O/BiVO ₄ heterogeneous nanostructures with enhanced visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2013 , 134-135, 293-301	21.8	245
189	Room-Temperature Synthesis and Characterization of Nanocrystalline CdS, ZnS, and Cd _x Zn _{1-x} S. <i>Chemistry of Materials</i> , 2002 , 14, 3028-3033	9.6	244
188	Single-Crystalline BiVO ₄ Microtubes with Square Cross-Sections: Microstructure, Growth Mechanism, and Photocatalytic Property. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13659-13664	3.8	232
187	Visible light-induced efficient contaminant removal by Bi ₅ O ₇ I. <i>Environmental Science & Technology</i> , 2009 , 43, 2005-10	10.3	212
186	Enhanced photocatalytic activity of Bi ₂ WO ₆ loaded with Ag nanoparticles under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2009 , 92, 50-55	21.8	204

185	Solar Light Driven Pure Water Splitting on Quantum Sized BiVO ₄ without any Cocatalyst. <i>ACS Catalysis</i> , 2014 , 4, 3498-3503	13.1	203
184	Bi ₂ WO ₆ Nanocrystals with High Photocatalytic Activities under Visible Light. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10407-10411	3.8	201
183	Enhanced photocatalytic hydrogen evolution under visible light over Cd _{1-x} Zn _x S solid solution with cubic zinc blend phase. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 19-25	6.7	196
182	CTAB-assisted synthesis of monoclinic BiVO ₄ photocatalyst and its highly efficient degradation of organic dye under visible-light irradiation. <i>Journal of Hazardous Materials</i> , 2010 , 173, 194-9	12.8	195
181	New Bi ₂ WO ₆ Nanocages with High Visible-Light-Driven Photocatalytic Activities Prepared in Refluxing EG. <i>Crystal Growth and Design</i> , 2009 , 9, 991-996	3.5	191
180	Low-temperature combustion synthesis of Bi ₂ WO ₆ nanoparticles as a visible-light-driven photocatalyst. <i>Journal of Hazardous Materials</i> , 2010 , 177, 1013-8	12.8	181
179	Surface oxygen vacancies on Co ₃ O ₄ mediated catalytic formaldehyde oxidation at room temperature. <i>Catalysis Science and Technology</i> , 2016 , 6, 3845-3853	5.5	180
178	Photocatalytic robust solar energy reduction of dinitrogen to ammonia on ultrathin MoS ₂ . <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 323-329	21.8	179
177	Ultrasonic-assisted synthesis of visible-light-induced Bi ₂ MO ₆ (M=W, Mo) photocatalysts. <i>Journal of Molecular Catalysis A</i> , 2007 , 268, 195-200		170
176	Fe ₃ O ₄ coupled BiOCl: A highly efficient magnetic photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 458-462	21.8	169
175	A Novel Mild Route to Nanocrystalline Selenides at Room Temperature. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4062-4063	16.4	168
174	Photocatalytic degradation of phenol over cage-like Bi ₂ MoO ₆ hollow spheres under visible-light irradiation. <i>Catalysis Communications</i> , 2010 , 11, 647-650	3.2	158
173	Efficient Visible Light-Induced Photocatalytic Degradation of Contaminant by Spindle-like PANI/BiVO ₄ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20228-20233	3.8	156
172	Nanosized BiVO ₄ with high visible-light-induced photocatalytic activity: ultrasonic-assisted synthesis and protective effect of surfactant. <i>Journal of Hazardous Materials</i> , 2009 , 172, 338-44	12.8	137
171	p-n junction CuO/BiVO ₄ heterogeneous nanostructures: synthesis and highly efficient visible-light photocatalytic performance. <i>Dalton Transactions</i> , 2014 , 43, 6735-43	4.3	136
170	Preparation of ordered mesoporous Ag/WO ₃ and its highly efficient degradation of acetaldehyde under visible-light irradiation. <i>Journal of Hazardous Materials</i> , 2010 , 178, 427-33	12.8	136
169	Enhanced photocatalytic activity of Bi ₂ WO ₆ with oxygen vacancies by zirconium doping. <i>Journal of Hazardous Materials</i> , 2011 , 196, 255-62	12.8	135
168	Inducing photocatalysis by visible light beyond the absorption edge: Effect of upconversion agent on the photocatalytic activity of Bi ₂ WO ₆ . <i>Applied Catalysis B: Environmental</i> , 2010 , 101, 68-73	21.8	133

167	Selective transport of electron and hole among {0 0 1} and {1 1 0} facets of BiOCl for pure water splitting. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 470-474	21.8	131
166	Insights into the Surface-Defect Dependence of Photoreactivity over CeO ₂ Nanocrystals with Well-Defined Crystal Facets. <i>ACS Catalysis</i> , 2015 , 5, 4851-4858	13.1	128
165	Efficient photocatalytic reduction of dinitrogen to ammonia on bismuth monoxide quantum dots. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 201-209	13	127
164	Enhancing visible-light-induced photocatalytic activity by coupling with wide-band-gap semiconductor: A case study on Bi ₂ WO ₆ /TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2012 , 111-112, 126-132	21.8	127
163	Synthesis of CuO nano- and micro-structures and their Raman spectroscopic studies. <i>CrystEngComm</i> , 2010 , 12, 2232	3.3	121
162	Bi ₂ WO ₆ Quantum Dots Decorated Reduced Graphene Oxide: Improved Charge Separation and Enhanced Photoconversion Efficiency. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9113-9120	3.8	118
161	Heterostructured bismuth molybdate composite: preparation and improved photocatalytic activity under visible-light irradiation. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2529-33	9.5	113
160	Hierarchical-Oriented Attachment: From One-Dimensional Cu(OH) ₂ Nanowires to Two-Dimensional CuO Nanoleaves. <i>Crystal Growth and Design</i> , 2007 , 7, 2720-2724	3.5	113
159	Noble metal (Pt, Au@Pd) nanoparticles supported on metal organic framework (MOF-74) nanoshuttles as high-selectivity CO ₂ conversion catalysts. <i>Journal of Catalysis</i> , 2019 , 370, 70-78	7.3	113
158	Photocatalytic degradation of rhodamine B and phenol by solution combustion synthesized BiVO ₄ photocatalyst. <i>Catalysis Communications</i> , 2010 , 11, 982-986	3.2	112
157	Visible Light-Induced Photocatalytic Oxidation of Phenol and Aqueous Ammonia in Flowerlike Bi ₂ Fe ₄ O ₉ Suspensions. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12826-12831	3.8	111
156	Efficient Methylene Blue Removal over Hydrothermally Synthesized Starlike BiVO ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1735-1739	3.9	111
155	Efficient photocatalytic fixation of N ₂ by KOH-treated g-C ₃ N ₄ . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3005-3011	13	109
154	Photocatalysis Coupled with Thermal Effect Induced by SPR on Ag-Loaded Bi ₂ WO ₆ with Enhanced Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25898-25903	3.8	107
153	Controllable Synthesis of Three-Dimensional Well-Defined BiVO ₄ Mesocrystals via a Facile Additive-Free Aqueous Strategy. <i>Crystal Growth and Design</i> , 2008 , 8, 728-733	3.5	105
152	Direct functionalization of methane into ethanol over copper modified polymeric carbon nitride via photocatalysis. <i>Nature Communications</i> , 2019 , 10, 506	17.4	103
151	Advanced chemical compositions and nanoarchitectures of bismuth based complex oxides for solar photocatalytic application. <i>RSC Advances</i> , 2014 , 4, 47136-47152	3.7	103
150	Monodisperse, Mesoporous ZnxCd1-xS Nanoparticles as Stable Visible-Light-Driven Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16754-16758	3.8	101

149	A novel BiVO ₄ hierarchical nanostructure: controllable synthesis, growth mechanism, and application in photocatalysis. <i>CrystEngComm</i> , 2010 , 12, 1754	3.3	99
148	Crystallography Facet-Dependent Antibacterial Activity: The Case of Cu ₂ O. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10366-10369	3.9	96
147	Ag@C core/shell nanocomposite as a highly efficient plasmonic photocatalyst. <i>Catalysis Communications</i> , 2009 , 11, 290-293	3.2	95
146	Elimination of BPA endocrine disruptor by magnetic BiOBr@SiO ₂ @Fe ₃ O ₄ photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2014 , 148-149, 164-169	21.8	94
145	A Novel Pathway to PbSe Nanowires at Room Temperature. <i>Advanced Materials</i> , 1998 , 10, 1479-1481	24	91
144	A practical visible-light-driven Bi ₂ WO ₆ nanofibrous mat prepared by electrospinning. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6213		87
143	Equilibrating the Plasmonic and Catalytic Roles of Metallic Nanostructures in Photocatalytic Oxidation over Au-Modified CeO ₂ . <i>ACS Catalysis</i> , 2015 , 5, 613-621	13.1	85
142	Solar-Light-Driven Pure Water Splitting with Ultrathin BiOCl Nanosheets. <i>Chemistry - A European Journal</i> , 2015 , 21, 18089-94	4.8	84
141	Synthesis of octahedral CuS nanocages via a solid-liquid reaction. <i>Nanotechnology</i> , 2006 , 17, 3649-3654	3.4	84
140	Ultrathin mesoporous Co ₃ O ₄ nanosheets with excellent photo-/thermo-catalytic activity. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 105-112	13	83
139	Nanoscale Kirkendall effect for the synthesis of Bi ₂ MoO ₆ boxes via a facile solution-phase method. <i>Nanoscale</i> , 2011 , 3, 1474-6	7.7	83
138	General strategy for a large-scale fabric with branched nanofiber-nanorod hierarchical heterostructure: controllable synthesis and applications. <i>Chemistry - A European Journal</i> , 2010 , 16, 11412-19	14.8	82
137	Amorphous MnO _x modified Co ₃ O ₄ for formaldehyde oxidation: improved low-temperature catalytic and photothermocatalytic activity. <i>Chemical Engineering Journal</i> , 2016 , 284, 21-27	14.7	81
136	Water splitting from dye wastewater: A case study of BiOCl/copper(II) phthalocyanine composite photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2013 , 132-133, 315-320	21.8	81
135	Design and controllable synthesis of Bi ₂ O ₃ homojunction with synergetic effect on photocatalytic activity. <i>Chemical Engineering Journal</i> , 2012 , 211-212, 161-167	14.7	79
134	Sonochemical synthesis of crystalline CuS nanoplates via an in situ template route. <i>Materials Letters</i> , 2006 , 60, 2203-2206	3.3	78
133	Bi ₅ FeTi ₃ O ₁₅ Hierarchical Microflowers: Hydrothermal Synthesis, Growth Mechanism, and Associated Visible-Light-Driven Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17835-17843	3.8	77
132	Electrospun nanofibers of Bi-doped TiO ₂ with high photocatalytic activity under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2011 , 196, 426-30	12.8	76

131	Photocatalytic inactivation of bacteria by photocatalyst Bi ₂ WO ₆ under visible light. <i>Catalysis Communications</i> , 2009 , 10, 1940-1943	3.2	76
130	Bi ₂ WO ₆ with significantly enhanced photocatalytic activities by nitrogen doping. <i>Materials Chemistry and Physics</i> , 2010 , 120, 155-159	4.4	76
129	Efficient Solar-Driven Nitrogen Fixation over Carbon-Tungstic-Acid Hybrids. <i>Chemistry - A European Journal</i> , 2016 , 22, 13819-13822	4.8	71
128	Enhanced photocatalytic CO ₂ reduction to methane over WO ₃ ·0.33H ₂ O via Mo doping. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 771-779	21.8	68
127	BiVO ₄ Hollow Nanospheres: Anchoring Synthesis, Growth Mechanism, and Their Application in Photocatalysis. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 4379-4384	2.3	66
126	A new approach to enhance photocatalytic nitrogen fixation performance via phosphate-bridge: a case study of SiW ₁₂ /K-C ₃ N ₄ . <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 260-267	21.8	65
125	Template Synthesis of Multishelled Cu ₂ O Hollow Spheres with a Single-Crystalline Shell Wall. <i>Angewandte Chemie</i> , 2007 , 119, 1511-1514	3.6	62
124	Fabrication of ordered SnO ₂ nanotube arrays via a template route. <i>Materials Chemistry and Physics</i> , 2006 , 99, 127-130	4.4	60
123	Photoreduction of carbon dioxide of atmospheric concentration to methane with water over CoAl-layered double hydroxide nanosheets. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8366-8373	13	59
122	2020 Roadmap on gas-involved photo- and electro- catalysis. <i>Chinese Chemical Letters</i> , 2019 , 30, 2089-2102	10.9	59
121	Preparation of WO ₃ -reduced graphene oxide nanocomposites with enhanced photocatalytic property. <i>Ceramics International</i> , 2015 , 41, 5903-5908	5.1	57
120	Controlled fabrication and enhanced photocatalytic performance of BiVO ₄ @CeO ₂ hollow microspheres for the visible-light-driven degradation of rhodamine B. <i>Applied Surface Science</i> , 2015 , 349, 529-537	6.7	56
119	Template-Free Fabrication of CdMoO ₄ Hollow Spheres and Their Morphology-Dependent Photocatalytic Property. <i>Crystal Growth and Design</i> , 2008 , 8, 3595-3601	3.5	56
118	Alkaline modified g-C ₃ N ₄ photocatalyst for high selective oxide coupling of benzyl alcohol to benzoin. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 553-560	21.8	55
117	Facile preparation of three-dimensionally ordered macroporous Bi ₂ WO ₆ with high photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19244		55
116	Visible light responsive bismuth niobate photocatalyst: enhanced contaminant degradation and hydrogen generation. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8405		55
115	Bi ₂ WO ₆ @carbon/Fe ₃ O ₄ microspheres: preparation, growth mechanism and application in water treatment. <i>Journal of Hazardous Materials</i> , 2009 , 172, 1193-7	12.8	54
114	Surfactant-Promoted Reductive Synthesis of Shape-Controlled Gold Nanostructures. <i>Crystal Growth and Design</i> , 2009 , 9, 858-862	3.5	54

113	Photocatalytic hydrogen production from aqueous solutions over novel Bi _{0.5} Na _{0.5} TiO ₃ microspheres. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3041-3047	6.7	53
112	Highly selective defect-mediated photochemical CO ₂ conversion over fluorite ceria under ambient conditions. <i>Chemical Communications</i> , 2014 , 50, 2005-7	5.8	52
111	Preparation and characterization of nanocrystalline Cu ₂ Se by a novel solvothermal pathway. <i>Journal of Materials Chemistry</i> , 1998 , 8, 2321-2322		52
110	Role of graphene on the surface chemical reactions of BiPO ₄ -rGO with low OH-related defects. <i>Nanoscale</i> , 2013 , 5, 11248-56	7.7	51
109	Characterization and gas-sensing properties of nanocrystalline iron(III) oxide films prepared by ultrasonic spray pyrolysis on silicon. <i>Sensors and Actuators B: Chemical</i> , 2000 , 69, 22-27	8.5	51
108	Magnetic ZnFe ₂ O ₄ octahedra: Synthesis and visible light induced photocatalytic activities. <i>Materials Letters</i> , 2013 , 98, 124-127	3.3	49
107	A simple template-free synthesis of ultrathin Cu ₂ ZnSnS ₄ nanosheets for highly stable photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6553		49
106	Ultrathin {001}-oriented bismuth tungsten oxide nanosheets as highly efficient photocatalysts. <i>ChemSusChem</i> , 2013 , 6, 1873-7	8.3	48
105	Hybrid Bi ₂ SiO ₅ mesoporous microspheres with light response for environment decontamination. <i>Applied Catalysis B: Environmental</i> , 2010 , 100, 97-101	21.8	48
104	Hierarchical CuO Colloidosomes and Their Structure Enhanced Photothermal Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12666-12672	3.8	47
103	Internal polar field enhanced H ₂ evolution of BiOI/O ₃ nanoplates. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 10170-10177	6.7	46
102	Infrared-light-induced photocatalysis on BiErWO ₆ . <i>Dalton Transactions</i> , 2013 , 42, 12072-4	4.3	46
101	Surfactant-free hydrothermal fabrication of monoclinic BiVO ₄ photocatalyst with oxygen vacancies by copper doping. <i>RSC Advances</i> , 2015 , 5, 14374-14381	3.7	46
100	A low-temperature route to InP nanocrystals. <i>Journal of Materials Chemistry</i> , 1999 , 9, 1831-1833		46
99	Antifouling properties of micro arc oxidation coatings containing Cu ₂ O/ZnO nanoparticles on Ti6Al4V. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016 , 54, 417-421	4.1	45
98	Surface hydrogen bonds assisted meso-porous WO ₃ photocatalysts for high selective oxidation of benzylalcohol to benzaldehyde. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 108-114	21.8	45
97	Solution combustion synthesis of CaFe ₂ O ₄ nanocrystal as a magnetically separable photocatalyst. <i>Materials Letters</i> , 2014 , 133, 212-215	3.3	45
96	Highly efficient photocatalytic oxidation of phenol over ordered mesoporous Bi ₂ WO ₆ . <i>Applied Catalysis B: Environmental</i> , 2011 , 106, 559-564	21.8	44

95	Tungsten oxide-based visible light-driven photocatalysts: crystal and electronic structures and strategies for photocatalytic efficiency enhancement. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 817-838	6.8	44
94	High Selective Oxidation of Benzyl Alcohol to Benzaldehyde and Benzoic Acid with Surface Oxygen Vacancies on W ₁₈ O ₄₉ /Holey Ultrathin g-C ₃ N ₄ Nanosheets. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7268-7276	8.3	43
93	Bismuth-Induced Integration of Solar Energy Conversion with Synergistic Low-Temperature Catalysis in Ce ¹⁺ BixO ₂ Nanorods. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24242-24249	3.8	43
92	Enhanced photocatalytic activity of Bi ₂ WO ₆ doped with upconversion luminescence agent. <i>Catalysis Communications</i> , 2011 , 13, 31-34	3.2	43
91	Efficient visible light induced degradation of organic contaminants by Bi ₂ WO ₆ film on SiO ₂ modified reticular substrate. <i>Applied Catalysis B: Environmental</i> , 2010 , 93, 227-232	21.8	43
90	Enhanced H ₂ evolution based on ultrasound-assisted piezo-catalysis of modified MoS ₂ . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11909-11915	13	43
89	Oxygen Reduction Reaction for Generating H ₂ O through a Piezo-Catalytic Process over Bismuth Oxychloride. <i>ChemSusChem</i> , 2018 , 11, 527-531	8.3	42
88	In situ synthesis of CdS modified CdWO ₄ nanorods and their application in photocatalytic H ₂ evolution. <i>CrystEngComm</i> , 2012 , 14, 3315	3.3	42
87	Luminescent properties of nanostructured Dy ³⁺ - and Tm ³⁺ -doped lanthanum chloride prepared by reactive atmosphere processing of sol-gel derived lanthanum hydroxide. <i>Journal of Applied Physics</i> , 2003 , 93, 2946-2951	2.5	42
86	Efficient Contaminant Removal by Bi ₂ WO ₆ Films with Nanoleaflike Structures through a Photoelectrocatalytic Process. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19413-19418	3.8	41
85	Bi ₂ WO ₆ quantum dot-intercalated ultrathin montmorillonite nanostructure and its enhanced photocatalytic performance. <i>Nano Research</i> , 2014 , 7, 1497-1506	10	40
84	Surfactant-assisted synthesis of double-wall Cu ₂ O hollow spheres. <i>CrystEngComm</i> , 2011 , 13, 1838-1842	3.3	40
83	A Growth Model of Single Crystalline Hollow Spheres: Oriented Attachment of Cu ₂ O Nanoparticles to the Single Crystalline Shell Wall. <i>Crystal Growth and Design</i> , 2008 , 8, 3486-3489	3.5	40
82	The design and realization of a large-area flexible nanofiber-based mat for pollutant degradation: an application in photocatalysis. <i>Nanoscale</i> , 2013 , 5, 5036-42	7.7	39
81	Diamine-appended metal-organic frameworks: enhanced formaldehyde-vapor adsorption capacity, superior recyclability and water resistibility. <i>Dalton Transactions</i> , 2016 , 45, 11306-11	4.3	38
80	Efficient piezo-catalytic hydrogen peroxide production from water and oxygen over graphitic carbon nitride. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20383-20389	13	38
79	Polypyrrole/Bi ₂ WO ₆ composite with high charge separation efficiency and enhanced photocatalytic activity. <i>Journal of Materials Science</i> , 2014 , 49, 7325-7332	4.3	38
78	Bi ₂ WO ₆ /Cu ₀ : A novel coupled system with enhanced photocatalytic activity by Fenton-like synergistic effect. <i>Catalysis Communications</i> , 2011 , 12, 834-838	3.2	38

77	Deposition and microstructural characterization of NiO thin films by a spray pyrolysis method. <i>Journal of Crystal Growth</i> , 1996 , 167, 656-659	1.6	38
76	A strategy for improving deactivation of catalytic combustion at low temperature via synergistic photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 399-407	21.8	37
75	Photocatalytic Hydrogen Evolution Coupled with Efficient Selective Benzaldehyde Production from Benzyl Alcohol Aqueous Solution over ZnS-NixSy Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10501-10508	8.3	36
74	Modification of heterogeneous photocatalysts for selective organic synthesis. <i>Catalysis Science and Technology</i> , 2018 , 8, 1229-1250	5.5	36
73	Internal Electric Field Assisted Photocatalytic Generation of Hydrogen Peroxide over BiOCl with HCOOH. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8704-8710	8.3	36
72	Highly efficient photocatalyst Bi ₂ MoO ₆ induced by blue light-emitting diode. <i>Applied Catalysis B: Environmental</i> , 2012 , 123-124, 89-93	21.8	36
71	Synthesis and characterization of nanocrystalline Bi ₂ Se ₃ by solvothermal method. <i>Materials Research Bulletin</i> , 1999 , 34, 131-134	5.1	36
70	Photocatalytic reduction of CO ₂ to methane over PtOx-loaded ultrathin Bi ₂ WO ₆ nanosheets. <i>Applied Surface Science</i> , 2019 , 470, 832-839	6.7	35
69	A facile room temperature solution-phase route to synthesize CuO nanowires with enhanced photocatalytic performance. <i>Materials Letters</i> , 2012 , 74, 217-219	3.3	34
68	Electrospun nanofibers of Er ³⁺ -doped TiO ₂ with photocatalytic activity beyond the absorption edge. <i>Journal of Solid State Chemistry</i> , 2014 , 210, 206-212	3.3	34
67	Photocatalytic activity of silver vanadate with one-dimensional structure under fluorescent light. <i>Journal of Hazardous Materials</i> , 2010 , 183, 950-3	12.8	34
66	Nanorattle Au@PtAg encapsulated in ZIF-8 for enhancing CO ₂ photoreduction to CO. <i>Nano Research</i> , 2019 , 12, 625-630	10	34
65	Large improvement of photo-response of CuPc sensitized Bi ₂ (WO ₄) ₃ with enhanced photocatalytic activity. <i>Dalton Transactions</i> , 2013 , 42, 4579-85	4.3	31
64	Enhanced H ₂ evolution from photocatalytic cellulose conversion based on graphitic carbon layers on TiO ₂ /NiOx. <i>Green Chemistry</i> , 2018 , 20, 3008-3013	10	31
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