

Yuanguo Xu

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89
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160
ext. papers

10,083
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
157	Novel visible-light-driven AgX/graphite-like C ₃ N ₄ (X=Br, I) hybrid materials with synergistic photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2013 , 129, 182-193	21.8	525
156	Preparation of sphere-like g-C ₃ N ₄ /BiOI photocatalysts via a reactable ionic liquid for visible-light-driven photocatalytic degradation of pollutants. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5340	13	386
155	Visible-light-induced WO ₃ /g-C ₃ N ₄ composites with enhanced photocatalytic activity. <i>Dalton Transactions</i> , 2013 , 42, 8606-16	4.3	382
154	Graphene-analogue carbon nitride: novel exfoliation synthesis and its application in photocatalysis and photoelectrochemical selective detection of trace amount of Cu ^{II} . <i>Nanoscale</i> , 2014 , 6, 1406-15	7.7	308
153	Exfoliated graphene-like carbon nitride in organic solvents: enhanced photocatalytic activity and highly selective and sensitive sensor for the detection of trace amounts of Cu ²⁺ . <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2563	13	288
152	Improved visible light photocatalytic activity of sphere-like BiOBr hollow and porous structures synthesized via a reactable ionic liquid. <i>Dalton Transactions</i> , 2011 , 40, 5249-58	4.3	221
151	The CNT modified white C ₃ N ₄ composite photocatalyst with enhanced visible-light response photoactivity. <i>Dalton Transactions</i> , 2013 , 42, 7604-13	4.3	206
150	Synthesis of magnetic CoFe ₂ O ₄ /g-C ₃ N ₄ composite and its enhancement of photocatalytic ability under visible-light. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 478, 71-80	5.1	192
149	Synthesis, characterization and photocatalytic property of AgBr/BiPO ₄ heterojunction photocatalyst. <i>Dalton Transactions</i> , 2012 , 41, 3387-94	4.3	186
148	Graphene quantum dots modified mesoporous graphite carbon nitride with significant enhancement of photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2017 , 207, 429-437	21.8	175
147	Synthesis and characterization of g-C ₃ N ₄ /MoO ₃ photocatalyst with improved visible-light photoactivity. <i>Applied Surface Science</i> , 2013 , 283, 25-32	6.7	175
146	Novel magnetic CoFe ₂ O ₄ /Ag ₃ VO ₄ composites: Highly efficient visible light photocatalytic and antibacterial activity. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 11-22	21.8	165
145	Facile fabrication of the visible-light-driven Bi ₂ WO ₆ /BiOBr composite with enhanced photocatalytic activity. <i>RSC Advances</i> , 2014 , 4, 82-90	3.7	159
144	Enhanced photocatalytic activity of new photocatalyst Ag/AgCl/ZnO. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3286-3292	5.7	137
143	Synthesis and characterization of CeO ₂ /g-C ₃ N ₄ composites with enhanced visible-light photocatalytic activity. <i>RSC Advances</i> , 2013 , 3, 22269	3.7	136
142	Construction of a 2D Graphene-Like MoS ₂ /C ₃ N ₄ Heterojunction with Enhanced Visible-Light Photocatalytic Activity and Photoelectrochemical Activity. <i>Chemistry - A European Journal</i> , 2016 , 22, 4764-73	4.8	135
141	Synthesis of g-C ₃ N ₄ /Ag ₃ VO ₄ composites with enhanced photocatalytic activity under visible light irradiation. <i>Chemical Engineering Journal</i> , 2015 , 271, 96-105	14.7	132

140	Constructing magnetic catalysts with in-situ solid-liquid interfacial photo-Fenton-like reaction over Ag ₃ PO ₄ @NiFe ₂ O ₄ composites. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 40-50	21.8	132
139	Solvothermal synthesis of metallic 1T-WS ₂ : A supporting co-catalyst on carbon nitride nanosheets toward photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2018 , 335, 282-289	14.7	121
138	Construction of novel CNT/LaVO ₄ nanostructures for efficient antibiotic photodegradation. <i>Chemical Engineering Journal</i> , 2019 , 357, 487-497	14.7	113
137	Removal of cationic dyes from aqueous solution by adsorption onto hydrophobic/hydrophilic silica aerogel. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 509, 539-549	5.1	112
136	Three dimensional polyaniline/MgIn ₂ S ₄ nanoflower photocatalysts accelerated interfacial charge transfer for the photoreduction of Cr(VI), photodegradation of organic pollution and photocatalytic H ₂ production. <i>Chemical Engineering Journal</i> , 2019 , 360, 1601-1612	14.7	103
135	Different Morphologies of SnS ₂ Supported on 2D g-C ₃ N ₄ for Excellent and Stable Visible Light Photocatalytic Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5132-5141	8.3	102
134	Controllable synthesis of CeO ₂ /g-C ₃ N ₄ composites and their applications in the environment. <i>Dalton Transactions</i> , 2015 , 44, 7021-31	4.3	101
133	CNT/Ag ₃ PO ₄ composites with highly enhanced visible light photocatalytic activity and stability. <i>Chemical Engineering Journal</i> , 2014 , 241, 35-42	14.7	98
132	One-pot solvothermal synthesis of Cu-modified BiOCl via a Cu-containing ionic liquid and its visible-light photocatalytic properties. <i>RSC Advances</i> , 2014 , 4, 14281	3.7	98
131	Magnetic g-C ₃ N ₄ /NiFe ₂ O ₄ hybrids with enhanced photocatalytic activity. <i>RSC Advances</i> , 2015 , 5, 57960-57967	5.7	92
130	In situ oxidation synthesis of visible-light-driven plasmonic photocatalyst Ag/AgCl/g-C ₃ N ₄ and its activity. <i>Ceramics International</i> , 2014 , 40, 9293-9301	5.1	85
129	A novel visible-light-response plasmonic photocatalyst CNT/Ag/AgBr and its photocatalytic properties. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5821-30	3.6	85
128	Synthesis, characterization and photocatalytic activities of rare earth-loaded BiVO ₄ catalysts. <i>Applied Surface Science</i> , 2009 , 256, 597-602	6.7	78
127	Phase and interlayer effect of transition metal dichalcogenide cocatalyst toward photocatalytic hydrogen evolution: The case of MoSe ₂ . <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 330-336	21.8	78
126	Enhanced Photocatalytic Activity of Ag ₃ VO ₄ Loaded with Rare-Earth Elements under Visible-Light Irradiation. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 10771-10778	3.9	77
125	A plasmonic photocatalyst of Ag/AgBr nanoparticles coupled with g-C ₃ N ₄ with enhanced visible-light photocatalytic ability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 474-483	5.1	74
124	One-step synthesis of Fe-doped surface-alkalinized g-C ₃ N ₄ and their improved visible-light photocatalytic performance. <i>Applied Surface Science</i> , 2019 , 469, 739-746	6.7	71
123	AgI/Ag ₃ PO ₄ heterojunction composites with enhanced photocatalytic activity under visible light irradiation. <i>Applied Surface Science</i> , 2013 , 287, 178-186	6.7	70

122	In situ growth of M-MO (M = Ni, Co) in 3D graphene as a competent bifunctional electrocatalyst for OER and HER. <i>Electrochimica Acta</i> , 2019 , 298, 163-171	6.7	70
121	Visible-light-driven Ag/AgBr/ZnFeO composites with excellent photocatalytic activity for E. coli disinfection and organic pollutant degradation. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 555-566	8.3	68
120	Synthesis of few-layer MoS ₂ nanosheet-loaded Ag ₃ PO ₄ for enhanced photocatalytic activity. <i>Dalton Transactions</i> , 2015 , 44, 3057-66	4.3	66
119	Enhancing reactive oxygen species generation and photocatalytic performance via adding oxygen reduction reaction catalysts into the photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 174-185	11.8	62
118	Facile preparation of NiFe ₂ O ₄ /MoS ₂ composite material with synergistic effect for high performance supercapacitor. <i>Journal of Alloys and Compounds</i> , 2017 , 726, 608-617	5.7	60
117	Reversible Formation of g-C ₃ N ₄ 3D Hydrogels through Ionic Liquid Activation: Gelation Behavior and Room-Temperature Gas-Sensing Properties. <i>Advanced Functional Materials</i> , 2017 , 27, 1700653	15.6	59
116	Hydrothermal synthesis of mpg-C ₃ N ₄ and Bi ₂ WO ₆ nest-like structure nanohybrids with enhanced visible light photocatalytic activities. <i>RSC Advances</i> , 2017 , 7, 38682-38690	3.7	59
115	Enhanced photocatalytic activity of ternary Ag ₃ PO ₄ /GO/g-C ₃ N ₄ photocatalysts for Rhodamine B degradation under visible light radiation. <i>Applied Surface Science</i> , 2019 , 466, 70-77	6.7	58
114	Controllable synthesis of hexagon-shaped [AgI] nanoplates in reactable ionic liquid and their photocatalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 410, 23-30	5.1	54
113	Non-metal photocatalyst nitrogen-doped carbon nanotubes modified mpg-C(3)N(4):facile synthesis and the enhanced visible-light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2017 , 494, 38-46	9.3	53
112	1D metallic MoO ₂ -C as co-catalyst on 2D g-C ₃ N ₄ semiconductor to promote photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2018 , 447, 732-739	6.7	52
111	Non-covalent modification of graphene oxide nanocomposites with chitosan/dextran and its application in drug delivery. <i>RSC Advances</i> , 2016 , 6, 9328-9337	3.7	52
110	Conjugated conducting polymers PANI decorated Bi ₁₂ O ₇ Cl ₂ photocatalyst with extended light response range and enhanced photoactivity. <i>Applied Surface Science</i> , 2019 , 464, 552-561	6.7	52
109	Synthesis, characterization and visible-light photocatalytic performance of Ag ₂ CO ₃ modified by graphene-oxide. <i>Journal of Alloys and Compounds</i> , 2014 , 592, 258-265	5.7	51
108	Construction of SnO ₂ /graphene-like g-C ₃ N ₄ with enhanced visible light photocatalytic activity. <i>RSC Advances</i> , 2017 , 7, 36101-36111	3.7	51
107	Carbon nitride nanowires/nanofibers: A novel template-free synthesis from a cyanuric chloride/helamine precursor towards enhanced adsorption and visible-light photocatalytic performance. <i>Ceramics International</i> , 2016 , 42, 4158-4170	5.1	49
106	Chitosan/sodium alginate modified graphene oxide-based nanocomposite as a carrier for drug delivery. <i>Ceramics International</i> , 2016 , 42, 17798-17805	5.1	48
105	High yield synthesis of nano-size g-C ₃ N ₄ derivatives by a dissolve-regrowth method with enhanced photocatalytic ability. <i>RSC Advances</i> , 2015 , 5, 26281-26290	3.7	47

104	Novel magnetic BaFe ₁₂ O ₁₉ /g-C ₃ N ₄ composites with enhanced thermocatalytic and photo-Fenton activity under visible-light. <i>Journal of Alloys and Compounds</i> , 2017 , 710, 510-518	5.7	46
103	Magnetically separable Fe ₂ O ₃ /g-C ₃ N ₄ catalyst with enhanced photocatalytic activity. <i>RSC Advances</i> , 2015 , 5, 95727-95735	3.7	45
102	Structural characterization and photocatalytic activity of NiO/AgNbO ₃ . <i>Journal of Alloys and Compounds</i> , 2010 , 496, 633-637	5.7	45
101	A multidimensional In ₂ S ₃ ∥In ₂ S ₂ heterostructure for photocatalytic carbon dioxide reduction. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 3163-3169	6.8	45
100	g-C ₃ N ₄ /Ag ₃ PO ₄ composites with synergistic effect for increased photocatalytic activity under the visible light irradiation. <i>Materials Science in Semiconductor Processing</i> , 2015 , 39, 726-734	4.3	44
99	0D/2D Fe ₂ O ₃ quantum dots/g-C ₃ N ₄ for enhanced visible-light-driven photocatalysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 541, 188-194	5.1	44
98	Facile preparation of TiO ₂ /C ₃ N ₄ hybrid materials with enhanced capacitive properties for high performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2017 , 702, 178-185	5.7	43
97	Visible-light-driven ZnFe ₂ O ₄ /Ag/Ag ₃ VO ₄ photocatalysts with enhanced photocatalytic activity under visible light irradiation. <i>Materials Research Bulletin</i> , 2017 , 95, 607-615	5.1	42
96	Cobalt phosphide nanoparticles embedded in 3D N-doped porous carbon for efficient hydrogen and oxygen evolution reactions. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4543-4552	6.7	42
95	Synthesis and photocatalytic activity of g-C ₃ N ₄ /BiOI/BiOBr ternary composites. <i>RSC Advances</i> , 2016 , 6, 41204-41213	3.7	42
94	Enhanced long-wavelength light utilization with polyaniline/bismuth-rich bismuth oxyhalide composite towards photocatalytic degradation of antibiotics. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 101-111	9.3	42
93	Ion-exchange preparation for visible-light-driven photocatalyst AgBr/Ag ₂ CO ₃ and its photocatalytic activity. <i>RSC Advances</i> , 2014 , 4, 9139	3.7	41
92	Low-crystalline mesoporous CoFe ₂ O ₄ /C composite with oxygen vacancies for high energy density asymmetric supercapacitors. <i>RSC Advances</i> , 2017 , 7, 55513-55522	3.7	41
91	Visible-light-induced blue MoO ₃ ∥C ₃ N ₄ composite with enhanced photocatalytic activity. <i>Materials Research Bulletin</i> , 2015 , 70, 500-505	5.1	41
90	Controlled synthesis of ordered mesoporous g-C ₃ N ₄ with a confined space effect on its photocatalytic activity. <i>Materials Science in Semiconductor Processing</i> , 2016 , 46, 59-68	4.3	40
89	Improved visible light photocatalytic activity of MWCNT/BiOBr composite synthesized via a reactable ionic liquid. <i>Ceramics International</i> , 2014 , 40, 4607-4616	5.1	40
88	Direct Z-scheme red carbon nitride/rod-like lanthanum vanadate composites with enhanced photodegradation of antibiotic contaminants. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119245	21.8	39
87	In situ construction efficient visible-light-driven three-dimensional Polypyrrole/ZnInS nanoflower to systematically explore the photoreduction of Cr(VI): Performance, factors and mechanism. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121480	12.8	39

86	Negative-charge-functionalized mesoporous silica nanoparticles as drug vehicles targeting hepatocellular carcinoma. <i>International Journal of Pharmaceutics</i> , 2014 , 474, 223-31	6.5	38
85	Synthesis, characterization and photocatalytic activity of NaNbO ₃ /ZnO heterojunction photocatalysts. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9157-9163	5.7	38
84	A core-shell structured magnetic Ag/AgBr@Fe ₂ O ₃ composite with enhanced photocatalytic activity for organic pollutant degradation and antibacterium. <i>RSC Advances</i> , 2015 , 5, 71035-71045	3.7	37
83	Synthesis of zinc ferrite/silver iodide composite with enhanced photocatalytic antibacterial and pollutant degradation ability. <i>Journal of Colloid and Interface Science</i> , 2018 , 528, 70-81	9.3	36
82	A Z-scheme magnetic recyclable Ag/AgBr@CoFe ₂ O ₄ photocatalyst with enhanced photocatalytic performance for pollutant and bacterial elimination. <i>RSC Advances</i> , 2017 , 7, 30845-30854	3.7	35
81	Modification of Ag ₃ VO ₄ with graphene-like MoS ₂ for enhanced visible-light photocatalytic property and stability. <i>New Journal of Chemistry</i> , 2016 , 40, 2168-2177	3.6	35
80	Ionic liquid oxidation synthesis of Ag@AgCl core-shell structure for photocatalytic application under visible-light irradiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 416, 80-85	5.1	35
79	Ternary MIL-100(Fe)@Fe ₃ O ₄ /CA magnetic nanophotocatalysts (MNPCs): Magnetically separable and Fenton-like degradation of tetracycline hydrochloride. <i>Advanced Powder Technology</i> , 2018 , 29, 3305-3314	4.6	35
78	Fabrication of Ag/AgCl/ZnFe ₂ O ₄ composites with enhanced photocatalytic activity for pollutant degradation and E. coli disinfection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 553, 114-124	5.1	34
77	Ag ₂ S quantum dots in situ coupled to hexagonal SnS ₂ with enhanced photocatalytic activity for MO and Cr(VI) removal. <i>RSC Advances</i> , 2017 , 7, 46823-46831	3.7	33
76	Novel Ag ₂ S quantum dot modified 3D flower-like SnS ₂ composites for photocatalytic and photoelectrochemical applications. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 63-72	6.8	33
75	Integrating CoOx cocatalyst on hexagonal Fe ₂ O ₃ for effective photocatalytic oxygen evolution. <i>Applied Surface Science</i> , 2019 , 469, 933-940	6.7	33
74	Synthesis and characterization of BN/Bi ₂ WO ₆ composite photocatalysts with enhanced visible-light photocatalytic activity. <i>RSC Advances</i> , 2015 , 5, 88832-88840	3.7	32
73	Graphene-analogue boron nitride/Ag ₃ PO ₄ composite for efficient visible-light-driven photocatalysis. <i>RSC Advances</i> , 2014 , 4, 56853-56862	3.7	32
72	Nickel and cobalt in situ grown in 3-dimensional hierarchical porous graphene for effective methanol electro-oxidation reaction. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 838, 7-15	4.1	31
71	Novel one-step synthesis of nickel encapsulated carbon nanotubes as efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 2685-2693	6.7	30
70	Preparation of magnetic Ag/AgCl/CoFe ₂ O ₄ composites with high photocatalytic and antibacterial ability. <i>RSC Advances</i> , 2015 , 5, 41475-41483	3.7	29
69	Multifunctional C-Doped CoFe ₂ O ₄ Material as Cocatalyst to Promote Reactive Oxygen Species Generation over Magnetic Recyclable CoFe/AgAgX Photocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11968-11978	8.3	29

68	Highly Efficient Visible-Light-Driven Schottky Catalyst MoN/2D g-C3N4 for Hydrogen Production and Organic Pollutants Degradation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8863-8870	3.9	29
67	Sulfur promoted n- π electron transitions in thiophene-doped g-C3N4 for enhanced photocatalytic activity. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 450-459	11.3	28
66	Core-shell magnetic Ag/AgCl@Fe2O3 photocatalysts with enhanced photoactivity for eliminating bisphenol A and microbial contamination. <i>New Journal of Chemistry</i> , 2016 , 40, 3413-3422	3.6	27
65	Novel visible-light-driven Fe2O3/Ag3VO4 composite with enhanced photocatalytic activity toward organic pollutants degradation. <i>RSC Advances</i> , 2016 , 6, 3600-3607	3.7	26
64	3D graphene decorated with hexagonal micro-coin of Co(OH)2: A competent electrocatalyst for hydrogen and oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 14770-14779	6.7	25
63	Synthesis and characterization of the efficient visible-light-induced photocatalyst AgBr and its photodegradation activity. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 523-529	3.9	25
62	Novel broad spectrum light responsive PPy/hexagonal-SnS2 photocatalyst for efficient photoreduction of Cr(VI). <i>Materials Research Bulletin</i> , 2019 , 112, 226-235	5.1	25
61	Ni3Fe nanoparticles enclosed by B-doped carbon for efficient bifunctional performances of oxygen and hydrogen evolution reactions. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155267	5.7	24
60	A controlled solvothermal approach to synthesize nanocrystalline iron oxide for congo red adsorptive removal from aqueous solutions. <i>Journal of Materials Science</i> , 2016 , 51, 4481-4494	4.3	24
59	Three-dimensionally ordered macroporous WO3 modified Ag3PO4 with enhanced visible light photocatalytic performance. <i>Ceramics International</i> , 2016 , 42, 1392-1398	5.1	24
58	Construction of polythiophene/Bi4O5I2 nanocomposites to promote photocatalytic degradation of bisphenol a. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153773	5.7	24
57	Design of 3D WO3/h-BN nanocomposites for efficient visible-light-driven photocatalysis. <i>RSC Advances</i> , 2017 , 7, 25160-25170	3.7	22
56	Porous defective carbon nitride obtained by a universal method for photocatalytic hydrogen production from water splitting. <i>Journal of Colloid and Interface Science</i> , 2020 , 566, 171-182	9.3	22
55	MO degradation by Ag-Ag2O/g-C3N4 composites under visible-light irradiation. <i>SpringerPlus</i> , 2016 , 5, 369		22
54	Selective adsorption of organic dyes by porous hydrophilic silica aerogels from aqueous system. <i>Water Science and Technology</i> , 2018 , 78, 402-414	2.2	22
53	Graphene oxide-modified LaVO4 nanocomposites with enhanced photocatalytic degradation efficiency of antibiotics. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2818-2828	6.8	22
52	Facile synthesis of CNT/AgI with enhanced photocatalytic degradation and antibacterial ability. <i>RSC Advances</i> , 2016 , 6, 6905-6914	3.7	21
51	Construction of molybdenum dioxide nanosheets coated on the surface of nickel ferrite nanocrystals with ultrahigh specific capacity for hybrid supercapacitor. <i>Electrochimica Acta</i> , 2018 , 260, 439-448	6.7	20

50	Fabrication of magnetic BaFe ₁₂ O ₁₉ /Ag ₃ PO ₄ composites with an in situ photo-Fenton-like reaction for enhancing reactive oxygen species under visible light irradiation. <i>Catalysis Science and Technology</i> , 2019 , 9, 2563-2570	5.5	19
49	Plasmonic-enhanced visible-light-driven photocatalytic activity of Ag ₂ S/AgBr synthesized in reactable ionic liquid. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 1626-1633	3.5	19
48	Construction of solid-liquid interfacial Fenton-like reaction under visible light irradiation over etched Co ₃ FeyO ₄ /BiOBr photocatalysts. <i>Catalysis Science and Technology</i> , 2018 , 8, 551-561	5.5	19
47	An efficient broad spectrum-driven carbon and oxygen co-doped g-CN for the photodegradation of endocrine disrupting: Mechanism, degradation pathway, DFT calculation and toluene selective oxidation. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123309	12.8	17
46	Kinetics and mechanism of enhanced photocatalytic activity employing ZnS nanospheres/graphene-like C ₃ N ₄ . <i>Molecular Catalysis</i> , 2017 , 438, 103-112	3.3	16
45	Designing Z-scheme 2D-C ₃ N ₄ /Ag ₃ VO ₄ hybrid structures for improved photocatalysis and photocatalytic mechanism insight. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1600946	1.6	16
44	WO ₃ nanorod photocatalysts decorated with few-layer g-C ₃ N ₄ nanosheets: controllable synthesis and photocatalytic mechanism research. <i>RSC Advances</i> , 2016 , 6, 80193-80200	3.7	16
43	BiPO ₄ nanorods anchored in biomass-based carbonaceous aerogel skeleton: A 2D-3D heterojunction composite as an energy-efficient photocatalyst. <i>Journal of Supercritical Fluids</i> , 2019 , 147, 33-41	4.2	16
42	Nickel loaded graphene-like carbon sheets an improved electrocatalyst for hydrogen evolution reaction. <i>Materials Chemistry and Physics</i> , 2019 , 227, 105-110	4.4	15
41	The construction of a Fenton system to achieve in situ H ₂ O ₂ generation and decomposition for enhanced photocatalytic performance. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1490-1500	6.8	15
40	Facile synthesis of N, S co-doped MoO ₂ @C nanorods as an outstanding electrocatalyst for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2021 , 537, 147971	6.7	15
39	Controllable Synthesis of Ultrathin NiCo O Nanosheets Incorporated onto Composite Nanotubes for Efficient Oxygen Reduction. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2426-2433	4.5	13
38	Controlled self-assembly synthesis of CuCo ₂ O ₄ /rGO for improving the morphology-dependent electrochemical oxygen evolution performance. <i>Applied Surface Science</i> , 2019 , 493, 710-718	6.7	12
37	In situ growth of Ag/AgCl on the surface of CNT and the effect of CNT on the photoactivity of the composite. <i>New Journal of Chemistry</i> , 2015 , 39, 5540-5547	3.6	12
36	Synthesis of carbon nitride in moist environments: A defect engineering strategy toward superior photocatalytic hydrogen evolution reaction. <i>Journal of Energy Chemistry</i> , 2021 , 54, 403-413	12	12
35	Synthesis of dark orange montmorillonite/g-C ₃ N ₄ composites and their applications in the environment. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 107, 131-139	3.9	11
34	Construction of 3D Hierarchical GO/MoS ₂ /g-C ₃ N ₄ Ternary Nanocomposites with Enhanced Visible-Light Photocatalytic Degradation Performance. <i>ChemistrySelect</i> , 2019 , 4, 7123-7133	1.8	11
33	Calcination synthesis of N-doped BiOIO ₃ with high LED-light-driven photocatalytic activity. <i>Materials Letters</i> , 2019 , 246, 219-222	3.3	11

32	Surface amorphous carbon doping of carbon nitride for efficient acceleration of electron transfer to boost photocatalytic activities. <i>Applied Surface Science</i> , 2020 , 507, 145145	6.7	11
31	Novel broad-spectrum-driven oxygen-linked band and porous defect co-modified orange carbon nitride for photodegradation of Bisphenol A and 2-Mercaptobenzothiazole. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122659	12.8	11
30	Simplistic two-step fabrication of porous carbon-based biomass-derived electrocatalyst for efficient hydrogen evolution reaction. <i>Energy Conversion and Management</i> , 2021 , 227, 113628	10.6	11
29	Tailoring of crystalline structure of carbon nitride for superior photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 324-334	9.3	10
28	Synthesis, characterization and photocatalytic activity of Ag/AgCl/graphite-like C ₃ N ₄ under visible light irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 6809-15	1.3	9
27	B-doped carbon enclosed Ni nanoparticles: A robust, stable and efficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 869, 114085	4.1	9
26	Realizing the synergistic effect of electronic modulation over graphitic carbon nitride for highly efficient photodegradation of bisphenol A and 2-mercaptobenzothiazole: Mechanism, degradation pathway and density functional theory calculation. <i>Journal of Colloid and Interface Science</i> , 2021 , 583, 113-127	9.3	9
25	Preparation of magnetically recoverable and Z-scheme BaFe ₁₂ O ₁₉ /AgBr composite for degradation of 2-Mercaptobenzothiazole and Methyl orange under visible light. <i>Applied Surface Science</i> , 2020 , 521, 146343	6.7	8
24	In situ formation of small-scale Ag ₂ S nanoparticles in carbonaceous aerogel for enhanced photodegradation performance. <i>Journal of Molecular Liquids</i> , 2019 , 292, 111476	6	8
23	Novel 3D graphene ornamented with CoO nanoparticles as an efficient bifunctional electrocatalyst for oxygen and hydrogen evolution reactions. <i>Materials Chemistry and Physics</i> , 2021 , 261, 124237	4.4	8
22	Graphene quantum dots modified Ag ₃ PO ₄ for facile synthesis and the enhanced photocatalytic performance. <i>Journal of the Chinese Advanced Materials Society</i> , 2018 , 6, 255-269		7
21	Construction 3D rod-like Bi _{3.64} Mo _{0.36} O _{6.55} /CuBi ₂ O ₄ photocatalyst for enhanced photocatalytic activity via a photo-Fenton-like Cu ²⁺ /Cu ⁺ redox cycle. <i>Separation and Purification Technology</i> , 2021 , 254, 117546	8.3	7
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17	The effect of solvent parameters on properties of iron-based silica binary aerogels as adsorbents. <i>Journal of Colloid and Interface Science</i> , 2019 , 549, 189-200	9.3	5
16	Construction of cobaltous oxide/nickeliron oxide electrodes with great cycle stability and high energy density for advanced asymmetry supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 21219-21228	2.1	5
15	Angstrom-sized tungsten carbide promoted platinum electrocatalyst for effective oxygen reduction reaction and resource saving. <i>RSC Advances</i> , 2015 , 5, 96488-96494	3.7	5

14	Ni-Fe-Co based mixed metal/metal-oxides nanoparticles encapsulated in ultrathin carbon nanosheets: A bifunctional electrocatalyst for overall water splitting. <i>Surfaces and Interfaces</i> , 2021 , 26, 101361	4.1	5
13	Controllable fabrication of abundant nickel-nitrogen doped CNT electrocatalyst for robust hydrogen evolution reaction. <i>Applied Surface Science</i> , 2021 , 562, 150161	6.7	5
12	Synergistically coupling of Co/Mo ₂ C/Co ₆ Mo ₆ C ₂ @C electrocatalyst for overall water splitting: The role of carbon precursors in structural engineering and catalytic activity. <i>Applied Surface Science</i> , 2022 , 579, 152148	6.7	4
11	Highly Stable Ultrafine Boron-Doped NiCo@Carbon Nanoparticles as a Robust Electrocatalyst for the Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , 2021 , 8, 1337-1348	4.3	3
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9	Ni nanoparticles oriented on MoO ₂ @BC nanosheets with an outstanding long-term stability for hydrogen evolution reaction. <i>Chemical Engineering Science</i> , 2021 , 246, 116868	4.4	2
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2	Simultaneous fabrication of cobalt-based graphene with rich N dopant for hydrogen evolution reaction in basic medium. <i>International Journal of Energy Research</i> , 2021 , 45, 14010-14020	4.5	0
1	Simultaneous synthesis of bimetallic@3D graphene electrocatalyst for HER and OER. <i>Frontiers of Materials Science</i> , 2021 , 15, 305-315	2.5	