Hui Xu

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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.

190 papers	10,978 citations	53 h-index	100 g-index
196 ext. papers	13,198 ext. citations	8.7 avg, IF	6.58 L-index

#	Paper	IF	Citations
190	Novel visible-light-driven AgX/graphite-like C3N4 (X=Br, I) hybrid materials with synergistic photocatalytic activity. *Applied Catalysis B: Environmental*, **2013**, 129, 182-193	21.8	525
189	High Efficiency Photocatalytic Water Splitting Using 2D α-Fe2O3/g-C3N4 Z-Scheme Catalysts. *Advanced Energy Materials*, **2017**, 7, 1700025	21.8	501
188	In-Situ-Reduced Synthesis of Ti3+ Self-Doped TiO2/g-C3N4 Heterojunctions with High Photocatalytic Performance under LED Light Irradiation. *ACS Applied Materials & Interfaces*, **2015**, 7, 9023-30	9.5	422
187	Novel visible-light-driven CQDs/Bi 2 WO 6 hybrid materials with enhanced photocatalytic activity toward organic pollutants degradation and mechanism insight. *Applied Catalysis B: Environmental*, **2015**, 168-169, 51-61	21.8	410
186	Visible-light-induced WO3/g-C3N4 composites with enhanced photocatalytic activity. *Dalton Transactions*, **2013**, 42, 8606-16	4.3	382
185	Template-free synthesis of 2D porous ultrathin nonmetal-doped g-C 3 N 4 nanosheets with highly efficient photocatalytic H 2 evolution from water under visible light. *Applied Catalysis B: Environmental*, **2016**, 187, 144-153	21.8	324
184	Graphene-analogue carbon nitride: novel exfoliation synthesis and its application in photocatalysis and photoelectrochemical selective detection of trace amount of Cu2+. *Nanoscale*, **2014**, 6, 1406-15	7.7	308
183	Oxygenated monolayer carbon nitride for excellent photocatalytic hydrogen evolution and external quantum efficiency. *Nano Energy*, **2016**, 27, 138-146	17.1	303
182	Exfoliated graphene-like carbon nitride in organic solvents: enhanced photocatalytic activity and highly selective and sensitive sensor for the detection of trace amounts of Cu2+. *Journal of Materials Chemistry A*, **2014**, 2, 2563	13	288
181	Electrochemical CO2 Reduction with Atomic Iron-Dispersed on Nitrogen-Doped Graphene. *Advanced Energy Materials*, **2018**, 8, 1703487	21.8	277
180	Self-assembled synthesis of defect-engineered graphitic carbon nitride nanotubes for efficient conversion of solar energy. *Applied Catalysis B: Environmental*, **2018**, 225, 154-161	21.8	210
179	The CNT modified white C3N4 composite photocatalyst with enhanced visible-light response photoactivity. *Dalton Transactions*, **2013**, 42, 7604-13	4.3	206
178	Unveiling the origin of boosted photocatalytic hydrogen evolution in simultaneously (S, P, O)-Codoped and exfoliated ultrathin g-C3N4 nanosheets. *Applied Catalysis B: Environmental*, **2019**, 248, 84-94	21.8	203
177	Mussel-inspired polydopamine biopolymer decorated with magnetic nanoparticles for multiple pollutants removal. *Journal of Hazardous Materials*, **2014**, 270, 27-34	12.8	196
176	Construction of MnO2/Monolayer g-C3N4 with Mn vacancies for Z-scheme overall water splitting. *Applied Catalysis B: Environmental*, **2019**, 241, 452-460	21.8	179
175	2D heterostructure comprised of metallic 1T-MoS2/Monolayer O-g-C3N4 towards efficient photocatalytic hydrogen evolution. *Applied Catalysis B: Environmental*, **2018**, 220, 379-385	21.8	176
174	Graphene quantum dots modified mesoporous graphite carbon nitride with significant enhancement of photocatalytic activity. *Applied Catalysis B: Environmental*, **2017**, 207, 429-437	21.8	175

173	Synthesis and characterization of g-C3N4/MoO3 photocatalyst with improved visible-light photoactivity. *Applied Surface Science*, **2013**, 283, 25-32	6.7	175
172	Nanoscale optical probes for cellular imaging. *Chemical Society Reviews*, **2014**, 43, 2650-61	58.5	166
171	Application of graphene-like layered molybdenum disulfide and its excellent adsorption behavior for doxycycline antibiotic. *Chemical Engineering Journal*, **2014**, 243, 60-67	14.7	164
170	Porous nitrogen-rich g-C3N4 nanotubes for efficient photocatalytic CO2 reduction. *Applied Catalysis B: Environmental*, **2019**, 256, 117854	21.8	152
169	Construction of a 2D Graphene-Like MoS2/C3N4 Heterojunction with Enhanced Visible-Light Photocatalytic Activity and Photoelectrochemical Activity. *Chemistry - A European Journal*, **2016**, 22, 4764-73	4.8	135
168	Constructing magnetic catalysts with in-situ solid-liquid interfacial photo-Fenton-like reaction over Ag3PO4@NiFe2O4 composites. *Applied Catalysis B: Environmental*, **2018**, 225, 40-50	21.8	132
167	Solvothermal synthesis of metallic 1T-WS2: A supporting co-catalyst on carbon nitride nanosheets toward photocatalytic hydrogen evolution. *Chemical Engineering Journal*, **2018**, 335, 282-289	14.7	121
166	Direct Synthesis of Porous Nanorod-Type Graphitic Carbon Nitride/CuO Composite from Cu-Melamine Supramolecular Framework towards Enhanced Photocatalytic Performance. *Chemistry - an Asian Journal*, **2015**, 10, 1276-80	4.5	118
165	Construction of novel CNT/LaVO4 nanostructures for efficient antibiotic photodegradation. *Chemical Engineering Journal*, **2019**, 357, 487-497	14.7	113
164	One-pot synthesis of copper-doped graphitic carbon nitride nanosheet by heating Cu-melamine supramolecular network and its enhanced visible-light-driven photocatalysis. *Journal of Solid State Chemistry*, **2015**, 228, 60-64	3.3	105
163	Three dimensional polyaniline/MgIn2S4 nanoflower photocatalysts accelerated interfacial charge transfer for the photoreduction of Cr(VI), photodegradation of organic pollution and photocatalytic H2 production. *Chemical Engineering Journal*, **2019**, 360, 1601-1612	14.7	103
162	Controllable synthesis of CeO2/g-C3N4 composites and their applications in the environment. *Dalton Transactions*, **2015**, 44, 7021-31	4.3	101
161	CNT/Ag3PO4 composites with highly enhanced visible light photocatalytic activity and stability. *Chemical Engineering Journal*, **2014**, 241, 35-42	14.7	98
160	Emerging surface strategies on graphitic carbon nitride for solar driven water splitting. *Chemical Engineering Journal*, **2020**, 382, 122812	14.7	97
159	Magnetic g-C3N4/NiFe2O4 hybrids with enhanced photocatalytic activity. *RSC Advances*, **2015**, 5, 57960-57967	3.7	92
158	Carbon materials from melamine sponges for supercapacitors and lithium battery electrode materials: A review **2019**, 1, 253-275		87
157	g-C3N4 modified Bi2O3 composites with enhanced visible-light photocatalytic activity. *Journal of Physics and Chemistry of Solids*, **2015**, 76, 112-119	3.9	86
156	Phase and interlayer effect of transition metal dichalcogenide cocatalyst toward photocatalytic hydrogen evolution: The case of MoSe2. *Applied Catalysis B: Environmental*, **2019**, 243, 330-336	21.8	78

155	Spatially confined Fe2O3 in hierarchical SiO2@TiO2 hollow sphere exhibiting superior photocatalytic efficiency for degrading antibiotics. *Chemical Engineering Journal*, **2020**, 380, 122583	14.7	78
154	In-situ hydroxyl modification of monolayer black phosphorus for stable photocatalytic carbon dioxide conversion. *Applied Catalysis B: Environmental*, **2020**, 269, 118760	21.8	76
153	2020 Roadmap on two-dimensional nanomaterials for environmental catalysis. *Chinese Chemical Letters*, **2019**, 30, 2065-2088	8.1	72
152	One-step synthesis of Fe-doped surface-alkalinized g-C3N4 and their improved visible-light photocatalytic performance. *Applied Surface Science*, **2019**, 469, 739-746	6.7	71
151	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. *Science Advances*, **2017**, 3, e1701500	14.3	70
150	Metal-Oxide-Mediated Subtractive Manufacturing of Two-Dimensional Carbon Nitride for High-Efficiency and High-Yield Photocatalytic H Evolution. *ACS Nano*, **2019**, 13, 11294-11302	16.7	66
149	Synthesis of few-layer MoS2 nanosheet-loaded Ag3PO4 for enhanced photocatalytic activity. *Dalton Transactions*, **2015**, 44, 3057-66	4.3	66
148	Enhancing reactive oxygen species generation and photocatalytic performance via adding oxygen reduction reaction catalysts into the photocatalysts. *Applied Catalysis B: Environmental*, **2017**, 218, 174-185	21.8	62
147	Enhancing charge density and steering charge unidirectional flow in 2D non-metallic semiconductor-CNTs-metal coupled photocatalyst for solar energy conversion. *Applied Catalysis B: Environmental*, **2017**, 202, 112-117	21.8	62
146	A Specifically Exposed Cobalt Oxide/Carbon Nitride 2D Heterostructure for Carbon Dioxide Photoreduction. *Industrial & Engineering Chemistry Research*, **2018**, 57, 17394-17400	3.9	61
145	Rapid synthesis of ultrathin 2D materials through liquid-nitrogen and microwave treatments. *Journal of Materials Chemistry A*, **2019**, 7, 5209-5213	13	60
144	Construction of 2D SnS2/g-C3N4 Z-scheme composite with superior visible-light photocatalytic performance. *Applied Surface Science*, **2019**, 467-468, 56-64	6.7	60
143	Reversible Formation of g-C3N4 3D Hydrogels through Ionic Liquid Activation: Gelation Behavior and Room-Temperature Gas-Sensing Properties. *Advanced Functional Materials*, **2017**, 27, 1700653	15.6	59
142	Hydrothermal synthesis of mpg-C3N4 and Bi2WO6 nest-like structure nanohybrids with enhanced visible light photocatalytic activities. *RSC Advances*, **2017**, 7, 38682-38690	3.7	59
141	Improving the photocatalytic activity and stability of graphene-like BN/AgBr composites. *Applied Surface Science*, **2014**, 313, 1-9	6.7	58
140	Spectroscopic studies on the interaction between nicotinamide and bovine serum albumin. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2008**, 71, 984-8	4.4	58
139	In-situ formation of hierarchical 1D-3D hybridized carbon nanostructure supported nonnoble transition metals for efficient electrocatalysis of oxygen reaction. *Applied Catalysis B: Environmental*, **2019**, 243, 151-160	21.8	57
138	Spectroscopic Studies on the Interaction of Vitamin C with Bovine Serum Albumin. *Journal of Solution Chemistry*, **2009**, 38, 15-25	1.8	55

137	Non-metal photocatalyst nitrogen-doped carbon nanotubes modified mpg-C(3)N(4):facile synthesis and the enhanced visible-light photocatalytic activity. *Journal of Colloid and Interface Science*, **2017**, 494, 38-46	9.3	53
136	Constructing Pd/2D-C3N4 composites for efficient photocatalytic H2 evolution through nonplasmon-induced bound electrons. *Applied Surface Science*, **2019**, 467-468, 151-157	6.7	53
135	1D metallic MoO2-C as co-catalyst on 2D g-C3N4 semiconductor to promote photocatlaytic hydrogen production. *Applied Surface Science*, **2018**, 447, 732-739	6.7	52
134	Ultrasonic-assisted pyrolyzation fabrication of reduced SnO2 /g-C3N4 heterojunctions: Enhance photoelectrochemical and photocatalytic activity under visible LED light irradiation. *Nano Research*, **2016**, 9, 1969-1982	10	52
133	Engineering black phosphorus to porous g-C3N4-metal organic framework membrane: a platform for highly boosting photocatalytic performance. *Journal of Materials Chemistry A*, **2019**, 7, 4408-4414	13	51
132	Construction of SnO2/graphene-like g-C3N4 with enhanced visible light photocatalytic activity. *RSC Advances*, **2017**, 7, 36101-36111	3.7	51
131	High-Adsorption, Self-Extinguishing, Thermal, and Acoustic-Resistance Aerogels Based on Organic and Inorganic Waste Valorization from Cellulose Nanocrystals and Red Mud. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 7168-7180	8.3	50
130	Hierarchical Z-scheme g-C3N4/Au/ZnIn2S4 photocatalyst for highly enhanced visible-light photocatalytic nitric oxide removal and carbon dioxide conversion. *Environmental Science: Nano*, **2020**, 7, 676-687	7.1	50
129	A multidimensional In2S3 CuInS2 heterostructure for photocatalytic carbon dioxide reduction. *Inorganic Chemistry Frontiers*, **2018**, 5, 3163-3169	6.8	45
128	0D/2D Fe2O3 quantum dots/g-C3N4 for enhanced visible-light-driven photocatalysis. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 541, 188-194	5.1	44
127	Making Good Use of Food Wastes: Green Synthesis of Highly Stabilized Silver Nanoparticles from Grape Seed Extract and Their Antimicrobial Activity. *Food Biophysics*, **2015**, 10, 12-18	3.2	43
126	BN nanosheets modified WO 3 photocatalysts for enhancing photocatalytic properties under visible light irradiation. *Journal of Alloys and Compounds*, **2016**, 660, 48-54	5.7	43
125	Steering charge transfer for boosting photocatalytic H2 evolution: Integration of two-dimensional semiconductor superiorities and noble-metal-free Schottky junction effect. *Applied Catalysis B: Environmental*, **2019**, 245, 477-485	21.8	43
124	Integrating the merits of two-dimensional structure and heteroatom modification into semiconductor photocatalyst to boost NO removal. *Chemical Engineering Journal*, **2019**, 370, 944-951	14.7	42
123	An All-Organic D-A System for Visible-Light-Driven Overall Water Splitting. *Small*, **2020**, 16, e2003914	11	41
122	Graphene quantum dots modified flower like BiWO for enhanced photocatalytic nitrogen fixation. *Journal of Colloid and Interface Science*, **2019**, 557, 498-505	9.3	40
121	Recent advance in single-atom catalysis. *Rare Metals*, **2021**, 40, 767-789	5.5	40
120	Direct Z-scheme red carbon nitride/rod-like lanthanum vanadate composites with enhanced photodegradation of antibiotic contaminants. *Applied Catalysis B: Environmental*, **2020**, 277, 119245	21.8	39

119	Construction and preparation of novel 2D metal-free few-layer BN modified graphene-like g-CN with enhanced photocatalytic performance. *Dalton Transactions*, **2017**, 46, 11250-11258	4.3	39
118	Fabrication of Ti3+ self-doped TiO2(A) nanoparticle/TiO2(R) nanorod heterojunctions with enhanced visible-light-driven photocatalytic properties. *RSC Advances*, **2014**, 4, 37061-37069	3.7	38
117	Biogenic synthesis of silver nanoparticles using ginger (Zingiber officinale) extract and their antibacterial properties against aquatic pathogens. *Acta Oceanologica Sinica*, **2017**, 36, 95-100	1	38
116	Plasma treated Bi2WO6 ultrathin nanosheets with oxygen vacancies for improved photocatalytic CO2 reduction. *Inorganic Chemistry Frontiers*, **2020**, 7, 597-602	6.8	38
115	Large-scale production of ultrathin carbon nitride-based photocatalysts for high-yield hydrogen evolution. *Applied Catalysis B: Environmental*, **2021**, 281, 119475	21.8	37
114	Graphene-based nanoprobes and a prototype optical biosensing platform. *Biosensors and Bioelectronics*, **2013**, 50, 251-5	11.8	33
113	Integrating CoOx cocatalyst on hexagonal Fe2O3 for effective photocatalytic oxygen evolution. *Applied Surface Science*, **2019**, 469, 933-940	6.7	33
112	Accelerating Photogenerated Charge Kinetics via the Synergetic Utilization of 2D Semiconducting Structural Advantages and Noble-Metal-Free Schottky Junction Effect. *Small*, **2019**, 15, e1804613	11	32
111	Synthesis and characterization of BN/Bi2WO6 composite photocatalysts with enhanced visible-light photocatalytic activity. *RSC Advances*, **2015**, 5, 88832-88840	3.7	32
110	Graphene-analogue boron nitride/Ag3PO4 composite for efficient visible-light-driven photocatalysis. *RSC Advances*, **2014**, 4, 56853-56862	3.7	32
109	Multifunctional nanocomplex for surface-enhanced Raman scattering imaging and near-infrared photodynamic antimicrobial therapy of vancomycin-resistant bacteria. *Colloids and Surfaces B: Biointerfaces*, **2018**, 161, 394-402	6	32
108	Construction of a few-layer g-C3N4/MoO3 nanoneedles all-solid-state Z-scheme photocatalytic system for photocatalytic degradation. *Journal of Energy Chemistry*, **2019**, 29, 65-71	12	31
107	Exploring deep effects of atomic vacancies on activating CO2 photoreduction via rationally designing indium oxide photocatalysts. *Chemical Engineering Journal*, **2021**, 422, 129888	14.7	31
106	Cryo-induced closely bonded heterostructure for effective CO2 conversion: The case of ultrathin BP nanosheets/g-C3N4. *Journal of Energy Chemistry*, **2020**, 49, 89-95	12	30
105	Gold/monolayer graphitic carbon nitride plasmonic photocatalyst for ultrafast electron transfer in solar-to-hydrogen energy conversion. *Chinese Journal of Catalysis*, **2018**, 39, 760-770	11.3	30
104	Multifunctional C-Doped CoFe2O4 Material as Cocatalyst to Promote Reactive Oxygen Species Generation over Magnetic Recyclable CoFe/AgAgX Photocatalysts. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 11968-11978	8.3	29
103	Highly Efficient Visible-Light-Driven Schottky Catalyst MoN/2D g-C3N4 for Hydrogen Production and Organic Pollutants Degradation. *Industrial & Engineering Chemistry Research*, **2018**, 57, 8863-8870	3.9	29
102	Highly sensitive recognition of Pb(2+) using Pb(2+) triggered exonuclease aided DNA recycling. *Biosensors and Bioelectronics*, **2013**, 47, 520-3	11.8	29

101	Electrochemical Chiral Recognition of Tryptophan Isomers Based on Nonionic Surfactant-Assisted Molecular Imprinting Sol-Gel Silica. *ACS Applied Materials & Interfaces*, **2019**, 11, 2840-2848	9.5	29
100	A silver on 2D white-C3N4 support photocatalyst for mechanistic insights: synergetic utilization of plasmonic effect for solar hydrogen evolution. *RSC Advances*, **2016**, 6, 112420-112428	3.7	28
99	Sulfur promoted n-π electron transitions in thiophene-doped g-C3N4 for enhanced photocatalytic activity. *Chinese Journal of Catalysis*, **2021**, 42, 450-459	11.3	28
98	Controllable synthesized heterostructure photocatalyst MoC@C/2D g-CN: enhanced catalytic performance for hydrogen production. *Dalton Transactions*, **2018**, 47, 14706-14712	4.3	28
97	Tandem Electrodes for Carbon Dioxide Reduction into C2+ Products at Simultaneously High Production Efficiency and Rate. *Cell Reports Physical Science*, **2020**, 1, 100051	6.1	26
96	Chemical reduction implanted oxygen vacancy on the surface of 1D MoO3−x/g-C3N4 composite for boosted LED light-driven photoactivity. *Journal of Materials Science*, **2019**, 54, 5343-5358	4.3	26
95	One-step oxygen vacancy engineering of WO3-x/2D g-C3N4 heterostructure: Triple effects for sustaining photoactivity. *Journal of Alloys and Compounds*, **2019**, 795, 426-435	5.7	24
94	Three-dimensionally ordered macroporous WO3 modified Ag3PO4 with enhanced visible light photocatalytic performance. *Ceramics International*, **2016**, 42, 1392-1398	5.1	24
93	Surface N modified 2D g-C3N4 nanosheets derived from DMF for photocatalytic H2 evolution. *Applied Surface Science*, **2018**, 459, 845-852	6.7	24
92	Efficient photocatalytic hydrogen evolution mediated by defect-rich 1T-PtS2 atomic layer nanosheet modified mesoporous graphitic carbon nitride. *Journal of Materials Chemistry A*, **2019**, 7, 18906-18914	12	24
91	Preparation of Wheat Straw Matrix-g-Polyacrylonitrile-Based Adsorbent by SET-LRP and Its Applications for Heavy Metal Ion Removal. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 1843-1848	8.3	24
90	A green Pickering emulsion stabilized by cellulose nanocrystals via RAFT polymerization. *Cellulose*, **2018**, 25, 77-85	5.5	24
89	Crystal phase dependent solar driven hydrogen evolution catalysis over cobalt diselenide. *Chemical Engineering Journal*, **2020**, 396, 125244	14.7	23
88	A novel nanocomposite based on fluorescent turn-on gold nanostars for near-infrared photothermal therapy and self-theranostic caspase-3 imaging of glioblastoma tumor cell. *Colloids and Surfaces B: Biointerfaces*, **2018**, 170, 303-311	6	23
87	Design of 3D WO3/h-BN nanocomposites for efficient visible-light-driven photocatalysis. *RSC Advances*, **2017**, 7, 25160-25170	3.7	22
86	Atomic Layered Titanium Sulfide Quantum Dots as Electrocatalysts for Enhanced Hydrogen Evolution Reaction. *Advanced Materials Interfaces*, **2018**, 5, 1700895	4.6	22
85	Nitrogen-Doped Carbon Quantum Dots from Poly(ethyleneimine) for Optical Dual-Mode Determination of Cu and l-Cysteine and Their Logic Gate Operation. *ACS Applied Materials & Interfaces*, **2020**, 12, 47245-47255	9.5	22
84	Preparation of Co-Mo-O ultrathin nanosheets with outstanding catalytic performance in aerobic oxidative desulfurization. *Chemical Communications*, **2019**, 55, 13995-13998	5.8	22

83	Graphene oxide-modified LaVO4 nanocomposites with enhanced photocatalytic degradation efficiency of antibiotics. *Inorganic Chemistry Frontiers*, **2018**, 5, 2818-2828	6.8	22
82	Metallic cobalt nanoparticles embedded in sulfur and nitrogen co-doped rambutan-like nanocarbons for the oxygen reduction reaction under both acidic and alkaline conditions. *Journal of Materials Chemistry A*, **2019**, 7, 14291-14301	13	21
81	Constructing Schottky junction between 2D semiconductor and metallic nickel phosphide for highly efficient catalytic hydrogen evolution. *Applied Surface Science*, **2019**, 495, 143528	6.7	21
80	Nitrogen-rich graphitic carbon nitride nanotubes for photocatalytic hydrogen evolution with simultaneous contaminant degradation. *Journal of Colloid and Interface Science*, **2020**, 560, 555-564	9.3	21
79	Synergistic effects of MoO2 nanosheets and graphene-like C3N4 for highly improved visible light photocatalytic activities. *Applied Surface Science*, **2018**, 457, 1142-1150	6.7	20
78	Direct Z-scheme photocatalyst for efficient water pollutant degradation: A case study of 2D g-C3N4/BiVO4. *Materials Chemistry and Physics*, **2020**, 241, 122308	4.4	20
77	Nitriding Nickel-Based Cocatalyst: A Strategy To Maneuver Hydrogen Evolution Capacity for Enhanced Photocatalysis. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 884-892	8.3	20
76	Gold nanorods decorated with graphene oxide and multi-walled carbon nanotubes for trace level voltammetric determination of ascorbic acid. *Mikrochimica Acta*, **2018**, 186, 17	5.8	20
75	Fabrication of magnetic BaFe12O19/Ag3PO4 composites with an in situ photo-Fenton-like reaction for enhancing reactive oxygen species under visible light irradiation. *Catalysis Science and Technology*, **2019**, 9, 2563-2570	5.5	19
74	Grain-boundary surface terminations incorporating oxygen vacancies for selectively boosting CO2 photoreduction activity. *Nano Energy*, **2021**, 84, 105869	17.1	19
73	Celastrol-modified TiO2 nanoparticles: effects of celastrol on the particle size and visible-light photocatalytic activity. *RSC Advances*, **2014**, 4, 12098-12104	3.7	18
72	Accelerating the Hole Mobility of Graphitic Carbon Nitride for Photocatalytic Hydrogen Evolution via 2D/2D Heterojunction Structural Advantages and Ni(OH)2 Characteristic. *Solar Rrl*, **2020**, 4, 1900538	7.1	17
71	Unique Dual-Sites Boosting Overall CO Photoconversion by Hierarchical Electron Harvesters. *Small*, **2021**, 17, e2103796	11	17
70	Designing Z-scheme 2D-C3N4/Ag3VO4 hybrid structures for improved photocatalysis and photocatalytic mechanism insight. *Physica Status Solidi (A) Applications and Materials Science*, **2017**, 214, 1600946	1.6	16
69	WO3 nanorod photocatalysts decorated with few-layer g-C3N4 nanosheets: controllable synthesis and photocatalytic mechanism research. *RSC Advances*, **2016**, 6, 80193-80200	3.7	16
68	Mo-O-Bi Bonds as interfacial electron transport bridges to fuel CO2 photoreduction via in-situ reconstruction of black Bi2MoO6/BiO2-x heterojunction. *Chemical Engineering Journal*, **2022**, 429, 132204	14.7	16
67	The construction of a Fenton system to achieve in situ H2O2 generation and decomposition for enhanced photocatalytic performance. *Inorganic Chemistry Frontiers*, **2019**, 6, 1490-1500	6.8	15
66	Electrochemical chiral sensor based on cellulose nanocrystals and multiwall carbon nanotubes for discrimination of tryptophan enantiomers. *Cellulose*, **2018**, 25, 3861-3871	5.5	14

65	Preparation of oxygen-deficient 2D WO3 nanoplates and their adsorption behaviors for organic pollutants: equilibrium and kinetics modeling. *Journal of Materials Science*, **2019**, 54, 12463-12475	4.3	14
64	Plasma-induced defect engineering: Boosted the reverse water gas shift reaction performance with electron trap. *Journal of Colloid and Interface Science*, **2020**, 580, 814-821	9.3	14
63	PMDETA as an efficient catalyst for bulk reversible complexation mediated polymerization (RCMP) in the absence of additional metal salts and deoxygenation. *RSC Advances*, **2016**, 6, 97455-97462	3.7	14
62	Cryo-mediated liquid-phase exfoliated 2D BP coupled with 2D C3N4 to photodegradate organic pollutants and simultaneously generate hydrogen. *Applied Surface Science*, **2019**, 490, 117-123	6.7	13
61	Electrochemical immunosensor detection of tumor markers based on a GO composite nanoprobe for signal amplification. *Analytical Methods*, **2018**, 10, 526-532	3.2	13
60	Designing Visible-Light-Driven Z-scheme Catalyst 2D g-C3N4/Bi2MoO6: Enhanced Photodegradation Activity of Organic Pollutants. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1800520	1.6	13
59	Enhanced photocatalytic H2 evolution by deposition of metal nanoparticles into mesoporous structure of g-C3N4. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 585, 124067	5.1	13
58	Mercury detection based on label-free and isothermal enzyme-free amplified fluorescence platform. *Talanta*, **2017**, 162, 368-373	6.2	12
57	Preparation of a novel sandwich-type electrochemical immunosensor for AFP detection based on an ATRP and click chemistry technique. *Polymer Chemistry*, **2020**, 11, 900-908	4.9	12
56	Highly Efficient Adsorption of Oils and Pollutants by Porous Ultrathin Oxygen-Modified BCN Nanosheets. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 3234-3242	8.3	12
55	Synthesis of carbon nitride in moist environments: A defect engineering strategy toward superior photocatalytic hydrogen evolution reaction. *Journal of Energy Chemistry*, **2021**, 54, 403-413	12	12
54	Accelerated Photoreduction of CO to CO over a Stable Heterostructure with a Seamless Interface. *ACS Applied Materials & Interfaces*, **2021**, 13, 39523-39532	9.5	12
53	Facile One-Pot Green Synthesis and Antibacterial Activities of GO/Ag Nanocomposites. *Acta Metallurgica Sinica (English Letters)*, **2017**, 30, 36-44	2.5	11
52	Surface amorphous carbon doping of carbon nitride for efficient acceleration of electron transfer to boost photocatalytic activities. *Applied Surface Science*, **2020**, 507, 145145	6.7	11
51	Novel broad-spectrum-driven oxygen-linked band and porous defect co-modified orange carbon nitride for photodegradation of Bisphenol A and 2-Mercaptobenzothiazole. *Journal of Hazardous Materials*, **2020**, 396, 122659	12.8	11
50	Construction of 2D/2D Z-scheme MnO2-x/g-C3N4 photocatalyst for efficient nitrogen fixation to ammonia. *Green Energy and Environment*, **2021**, 6, 538-545	5.7	11
49	Tailoring of crystalline structure of carbon nitride for superior photocatalytic hydrogen evolution. *Journal of Colloid and Interface Science*, **2019**, 556, 324-334	9.3	10
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45	Sustainable supercapacitors of nitrogen-doping porous carbon based on cellulose nanocrystals and urea. *International Journal of Biological Macromolecules*, **2020**, 164, 4095-4103	7.9	9
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