

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3747440/hui-xu-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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 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
189	High Efficiency Photocatalytic Water Splitting Using 2D Fe ₂ O ₃ /g-C ₃ N ₄ Z-Scheme Catalysts. <i>Advanced Energy Materials</i> , 2017 , 7, 1700025	21.8	501
188	In-Situ-Reduced Synthesis of Ti ³⁺ Self-Doped TiO ₂ /g-C ₃ N ₄ Heterojunctions with High Photocatalytic Performance under LED Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 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. <i>Applied Catalysis B: Environmental</i> , 2015 , 168-169, 51-61	21.8	410
186	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
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. <i>Applied Catalysis B: Environmental</i> , 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 Cu ²⁺ . <i>Nanoscale</i> , 2014 , 6, 1406-15	7.7	308
183	Oxygenated monolayer carbon nitride for excellent photocatalytic hydrogen evolution and external quantum efficiency. <i>Nano Energy</i> , 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 Cu ²⁺ . <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2563	13	288
181	Electrochemical CO ₂ Reduction with Atomic Iron-Dispersed on Nitrogen-Doped Graphene. <i>Advanced Energy Materials</i> , 2018 , 8, 1703487	21.8	277
180	Self-assembled synthesis of defect-engineered graphitic carbon nitride nanotubes for efficient conversion of solar energy. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 154-161	21.8	210
179	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
178	Unveiling the origin of boosted photocatalytic hydrogen evolution in simultaneously (S, P, O)-Codoped and exfoliated ultrathin g-C ₃ N ₄ nanosheets. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 84-94	21.8	203
177	Mussel-inspired polydopamine biopolymer decorated with magnetic nanoparticles for multiple pollutants removal. <i>Journal of Hazardous Materials</i> , 2014 , 270, 27-34	12.8	196
176	Construction of MnO ₂ /Monolayer g-C ₃ N ₄ with Mn vacancies for Z-scheme overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 452-460	21.8	179
175	2D heterostructure comprised of metallic 1T-MoS ₂ /Monolayer O-g-C ₃ N ₄ towards efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 379-385	21.8	176
174	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

173	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
172	Nanoscale optical probes for cellular imaging. <i>Chemical Society Reviews</i> , 2014 , 43, 2650-61	58.5	166
171	Application of graphene-like layered molybdenum disulfide and its excellent adsorption behavior for doxycycline antibiotic. <i>Chemical Engineering Journal</i> , 2014 , 243, 60-67	14.7	164
170	Porous nitrogen-rich g-C ₃ N ₄ nanotubes for efficient photocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117854	21.8	152
169	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
168	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
167	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
166	Direct Synthesis of Porous Nanorod-Type Graphitic Carbon Nitride/CuO Composite from Cu-Melamine Supramolecular Framework towards Enhanced Photocatalytic Performance. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 1276-80	4.5	118
165	Construction of novel CNT/LaVO ₄ nanostructures for efficient antibiotic photodegradation. <i>Chemical Engineering Journal</i> , 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. <i>Journal of Solid State Chemistry</i> , 2015 , 228, 60-64	3.3	105
163	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
162	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
161	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
160	Emerging surface strategies on graphitic carbon nitride for solar driven water splitting. <i>Chemical Engineering Journal</i> , 2020 , 382, 122812	14.7	97
159	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
158	Carbon materials from melamine sponges for supercapacitors and lithium battery electrode materials: A review 2019 , 1, 253-275		87
157	g-C ₃ N ₄ modified Bi ₂ O ₃ composites with enhanced visible-light photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 76, 112-119	3.9	86
156	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

155	Spatially confined Fe ₂ O ₃ in hierarchical SiO ₂ @TiO ₂ hollow sphere exhibiting superior photocatalytic efficiency for degrading antibiotics. <i>Chemical Engineering Journal</i> , 2020 , 380, 122583	14.7	78
154	In-situ hydroxyl modification of monolayer black phosphorus for stable photocatalytic carbon dioxide conversion. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118760	21.8	76
153	2020 Roadmap on two-dimensional nanomaterials for environmental catalysis. <i>Chinese Chemical Letters</i> , 2019 , 30, 2065-2088	8.1	72
152	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
151	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. <i>Science Advances</i> , 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 ₂ Evolution. <i>ACS Nano</i> , 2019 , 13, 11294-11302	16.7	66
149	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
148	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	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. <i>Applied Catalysis B: Environmental</i> , 2017 , 202, 112-117	21.8	62
146	A Specifically Exposed Cobalt Oxide/Carbon Nitride 2D Heterostructure for Carbon Dioxide Photoreduction. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 17394-17400	3.9	61
145	Rapid synthesis of ultrathin 2D materials through liquid-nitrogen and microwave treatments. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5209-5213	13	60
144	Construction of 2D SnS ₂ /g-C ₃ N ₄ Z-scheme composite with superior visible-light photocatalytic performance. <i>Applied Surface Science</i> , 2019 , 467-468, 56-64	6.7	60
143	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
142	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
141	Improving the photocatalytic activity and stability of graphene-like BN/AgBr composites. <i>Applied Surface Science</i> , 2014 , 313, 1-9	6.7	58
140	Spectroscopic studies on the interaction between nicotinamide and bovine serum albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 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. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 151-160	21.8	57
138	Spectroscopic Studies on the Interaction of Vitamin C with Bovine Serum Albumin. <i>Journal of Solution Chemistry</i> , 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. <i>Journal of Colloid and Interface Science</i> , 2017 , 494, 38-46	9.3	53
136	Constructing Pd/2D-C3N4 composites for efficient photocatalytic H2 evolution through nonplasmon-induced bound electrons. <i>Applied Surface Science</i> , 2019 , 467-468, 151-157	6.7	53
135	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
134	Ultrasonic-assisted pyrolyzation fabrication of reduced SnO ₂ /g-C ₃ N ₄ heterojunctions: Enhance photoelectrochemical and photocatalytic activity under visible LED light irradiation. <i>Nano Research</i> , 2016 , 9, 1969-1982	10	52
133	Engineering black phosphorus to porous g-C ₃ N ₄ -metal-organic framework membrane: a platform for highly boosting photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4408-4414	13	51
132	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
131	High-Adsorption, Self-Extinguishing, Thermal, and Acoustic-Resistance Aerogels Based on Organic and Inorganic Waste Valorization from Cellulose Nanocrystals and Red Mud. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7168-7180	8.3	50
130	Hierarchical Z-scheme g-C ₃ N ₄ /Au/ZnIn ₂ S ₄ photocatalyst for highly enhanced visible-light photocatalytic nitric oxide removal and carbon dioxide conversion. <i>Environmental Science: Nano</i> , 2020 , 7, 676-687	7.1	50
129	A multidimensional In ₂ S ₃ /CuInS ₂ heterostructure for photocatalytic carbon dioxide reduction. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 3163-3169	6.8	45
128	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
127	Making Good Use of Food Wastes: Green Synthesis of Highly Stabilized Silver Nanoparticles from Grape Seed Extract and Their Antimicrobial Activity. <i>Food Biophysics</i> , 2015 , 10, 12-18	3.2	43
126	BN nanosheets modified WO ₃ photocatalysts for enhancing photocatalytic properties under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2016 , 660, 48-54	5.7	43
125	Steering charge transfer for boosting photocatalytic H ₂ evolution: Integration of two-dimensional semiconductor superiorities and noble-metal-free Schottky junction effect. <i>Applied Catalysis B: Environmental</i> , 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. <i>Chemical Engineering Journal</i> , 2019 , 370, 944-951	14.7	42
123	An All-Organic D-A System for Visible-Light-Driven Overall Water Splitting. <i>Small</i> , 2020 , 16, e2003914	11	41
122	Graphene quantum dots modified flower like BiWO ₄ for enhanced photocatalytic nitrogen fixation. <i>Journal of Colloid and Interface Science</i> , 2019 , 557, 498-505	9.3	40
121	Recent advance in single-atom catalysis. <i>Rare Metals</i> , 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. <i>Applied Catalysis B: Environmental</i> , 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. <i>Dalton Transactions</i> , 2017 , 46, 11250-11258	4.3	39
118	Fabrication of Ti ³⁺ self-doped TiO ₂ (A) nanoparticle/TiO ₂ (R) nanorod heterojunctions with enhanced visible-light-driven photocatalytic properties. <i>RSC Advances</i> , 2014 , 4, 37061-37069	3.7	38
117	Biogenic synthesis of silver nanoparticles using ginger (<i>Zingiber officinale</i>) extract and their antibacterial properties against aquatic pathogens. <i>Acta Oceanologica Sinica</i> , 2017 , 36, 95-100	1	38
116	Plasma treated Bi ₂ WO ₆ ultrathin nanosheets with oxygen vacancies for improved photocatalytic CO ₂ reduction. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 597-602	6.8	38
115	Large-scale production of ultrathin carbon nitride-based photocatalysts for high-yield hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119475	21.8	37
114	Graphene-based nanoprobe and a prototype optical biosensing platform. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 251-5	11.8	33
113	Integrating CoO _x cocatalyst on hexagonal Fe ₂ O ₃ for effective photocatalytic oxygen evolution. <i>Applied Surface Science</i> , 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. <i>Small</i> , 2019 , 15, e1804613	11	32
111	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
110	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
109	Multifunctional nanocomplex for surface-enhanced Raman scattering imaging and near-infrared photodynamic antimicrobial therapy of vancomycin-resistant bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 161, 394-402	6	32
108	Construction of a few-layer g-C ₃ N ₄ /Bi ₂ MoO ₃ nanoneedles all-solid-state Z-scheme photocatalytic system for photocatalytic degradation. <i>Journal of Energy Chemistry</i> , 2019 , 29, 65-71	12	31
107	Exploring deep effects of atomic vacancies on activating CO ₂ photoreduction via rationally designing indium oxide photocatalysts. <i>Chemical Engineering Journal</i> , 2021 , 422, 129888	14.7	31
106	Cryo-induced closely bonded heterostructure for effective CO ₂ conversion: The case of ultrathin BP nanosheets/g-C ₃ N ₄ . <i>Journal of Energy Chemistry</i> , 2020 , 49, 89-95	12	30
105	Gold/monolayer graphitic carbon nitride plasmonic photocatalyst for ultrafast electron transfer in solar-to-hydrogen energy conversion. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 760-770	11.3	30
104	Multifunctional C-Doped CoFe ₂ O ₄ Material as Cocatalyst to Promote Reactive Oxygen Species Generation over Magnetic Recyclable CoFe/Ag ₂ O Photocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11968-11978	8.3	29
103	Highly Efficient Visible-Light-Driven Schottky Catalyst MoN/2D g-C ₃ N ₄ for Hydrogen Production and Organic Pollutants Degradation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8863-8870	37.0	29
102	Highly sensitive recognition of Pb(2+) using Pb(2+) triggered exonuclease aided DNA recycling. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 520-3	11.8	29

101	Electrochemical Chiral Recognition of Tryptophan Isomers Based on Nonionic Surfactant-Assisted Molecular Imprinting Sol-Gel Silica. <i>ACS Applied Materials & Interfaces</i> , 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. <i>RSC Advances</i> , 2016 , 6, 112420-112428	3.7	28
99	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
98	Controllable synthesized heterostructure photocatalyst MoC@C/2D g-CN: enhanced catalytic performance for hydrogen production. <i>Dalton Transactions</i> , 2018 , 47, 14706-14712	4.3	28
97	Tandem Electrodes for Carbon Dioxide Reduction into C2+ Products at Simultaneously High Production Efficiency and Rate. <i>Cell Reports Physical Science</i> , 2020 , 1, 100051	6.1	26
96	Chemical reduction implanted oxygen vacancy on the surface of 1D MoO3 π /g-C3N4 composite for boosted LED light-driven photoactivity. <i>Journal of Materials Science</i> , 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. <i>Journal of Alloys and Compounds</i> , 2019 , 795, 426-435	5.7	24
94	Three-dimensionally ordered macroporous WO3 modified Ag3PO4 with enhanced visible light photocatalytic performance. <i>Ceramics International</i> , 2016 , 42, 1392-1398	5.1	24
93	Surface N modified 2D g-C3N4 nanosheets derived from DMF for photocatalytic H2 evolution. <i>Applied Surface Science</i> , 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. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18906-18914	13.1	24
91	Preparation of Wheat Straw Matrix-g-Polyacrylonitrile-Based Adsorbent by SET-LRP and Its Applications for Heavy Metal Ion Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1843-1848	8.3	24
90	A green Pickering emulsion stabilized by cellulose nanocrystals via RAFT polymerization. <i>Cellulose</i> , 2018 , 25, 77-85	5.5	24
89	Crystal phase dependent solar driven hydrogen evolution catalysis over cobalt diselenide. <i>Chemical Engineering Journal</i> , 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. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 170, 303-311	6	23
87	Design of 3D WO3/h-BN nanocomposites for efficient visible-light-driven photocatalysis. <i>RSC Advances</i> , 2017 , 7, 25160-25170	3.7	22
86	Atomic Layered Titanium Sulfide Quantum Dots as Electrocatalysts for Enhanced Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 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. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47245-47255	9.5	22
84	Preparation of Co-Mo-O ultrathin nanosheets with outstanding catalytic performance in aerobic oxidative desulfurization. <i>Chemical Communications</i> , 2019 , 55, 13995-13998	5.8	22

83	Graphene oxide-modified LaVO ₄ nanocomposites with enhanced photocatalytic degradation efficiency of antibiotics. <i>Inorganic Chemistry Frontiers</i> , 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. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14291-14301	13	21
81	Constructing Schottky junction between 2D semiconductor and metallic nickel phosphide for highly efficient catalytic hydrogen evolution. <i>Applied Surface Science</i> , 2019 , 495, 143528	6.7	21
80	Nitrogen-rich graphitic carbon nitride nanotubes for photocatalytic hydrogen evolution with simultaneous contaminant degradation. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 555-564	9.3	21
79	Synergistic effects of MoO ₂ nanosheets and graphene-like C ₃ N ₄ for highly improved visible light photocatalytic activities. <i>Applied Surface Science</i> , 2018 , 457, 1142-1150	6.7	20
78	Direct Z-scheme photocatalyst for efficient water pollutant degradation: A case study of 2D g-C ₃ N ₄ /BiVO ₄ . <i>Materials Chemistry and Physics</i> , 2020 , 241, 122308	4.4	20
77	Nitriding Nickel-Based Cocatalyst: A Strategy To Maneuver Hydrogen Evolution Capacity for Enhanced Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 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. <i>Mikrochimica Acta</i> , 2018 , 186, 17	5.8	20
75	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
74	Grain-boundary surface terminations incorporating oxygen vacancies for selectively boosting CO ₂ photoreduction activity. <i>Nano Energy</i> , 2021 , 84, 105869	17.1	19
73	Celastrol-modified TiO ₂ nanoparticles: effects of celastrol on the particle size and visible-light photocatalytic activity. <i>RSC Advances</i> , 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. <i>Solar Rrl</i> , 2020 , 4, 1900538	7.1	17
71	Unique Dual-Sites Boosting Overall CO Photoconversion by Hierarchical Electron Harvesters. <i>Small</i> , 2021 , 17, e2103796	11	17
70	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
69	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
68	Mo-O-Bi Bonds as interfacial electron transport bridges to fuel CO ₂ photoreduction via in-situ reconstruction of black Bi ₂ MoO ₆ /BiO ₂ -x heterojunction. <i>Chemical Engineering Journal</i> , 2022 , 429, 132204	14.7	16
67	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
66	Electrochemical chiral sensor based on cellulose nanocrystals and multiwall carbon nanotubes for discrimination of tryptophan enantiomers. <i>Cellulose</i> , 2018 , 25, 3861-3871	5.5	14

65	Preparation of oxygen-deficient 2D WO ₃ nanoplates and their adsorption behaviors for organic pollutants: equilibrium and kinetics modeling. <i>Journal of Materials Science</i> , 2019 , 54, 12463-12475	4.3	14
64	Plasma-induced defect engineering: Boosted the reverse water gas shift reaction performance with electron trap. <i>Journal of Colloid and Interface Science</i> , 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. <i>RSC Advances</i> , 2016 , 6, 97455-97462	3.7	14
62	Cryo-mediated liquid-phase exfoliated 2D BP coupled with 2D C ₃ N ₄ to photodegrade organic pollutants and simultaneously generate hydrogen. <i>Applied Surface Science</i> , 2019 , 490, 117-123	6.7	13
61	Electrochemical immunosensor detection of tumor markers based on a GO composite nanoprobe for signal amplification. <i>Analytical Methods</i> , 2018 , 10, 526-532	3.2	13
60	Designing Visible-Light-Driven Z-scheme Catalyst 2D g-C ₃ N ₄ /Bi ₂ MoO ₆ : Enhanced Photodegradation Activity of Organic Pollutants. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800520	1.6	13
59	Enhanced photocatalytic H ₂ evolution by deposition of metal nanoparticles into mesoporous structure of g-C ₃ N ₄ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 585, 124067	5.1	13
58	Mercury detection based on label-free and isothermal enzyme-free amplified fluorescence platform. <i>Talanta</i> , 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. <i>Polymer Chemistry</i> , 2020 , 11, 900-908	4.9	12
56	Highly Efficient Adsorption of Oils and Pollutants by Porous Ultrathin Oxygen-Modified BCN Nanosheets. <i>ACS Sustainable Chemistry and Engineering</i> , 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. <i>Journal of Energy Chemistry</i> , 2021 , 54, 403-413	12	12
54	Accelerated Photoreduction of CO to CO over a Stable Heterostructure with a Seamless Interface. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39523-39532	9.5	12
53	Facile One-Pot Green Synthesis and Antibacterial Activities of GO/Ag Nanocomposites. <i>Acta Metallurgica Sinica (English Letters)</i> , 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. <i>Applied Surface Science</i> , 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. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122659	12.8	11
50	Construction of 2D/2D Z-scheme MnO ₂ -x/g-C ₃ N ₄ photocatalyst for efficient nitrogen fixation to ammonia. <i>Green Energy and Environment</i> , 2021 , 6, 538-545	5.7	11
49	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
48	Construction of dual ion (Fe ³⁺ /Fe ²⁺ and Nb ⁵⁺ /Nb ⁴⁺) synergy and full spectrum 1D nanorod Fe ₂ O ₃ /NaNbO ₃ photo-Fenton catalyst for the degradation of antibiotic: Effects of H ₂ O ₂ , S ₂ O ₈ ²⁻ and toxicity. <i>Separation and Purification Technology</i> , 2021 , 261, 118269	8.3	10

47	Modulating electronic structure of ternary NiMoV LDH nanosheet array induced by doping engineering to promote urea oxidation reaction. <i>Chemical Engineering Journal</i> , 2021 , 430, 133100	14.7	9
46	Efficient photocatalytic hydrogen evolution by engineering amino groups into ultrathin 2D graphitic carbon nitride. <i>Applied Surface Science</i> , 2020 , 507, 145085	6.7	9
45	Sustainable supercapacitors of nitrogen-doping porous carbon based on cellulose nanocrystals and urea. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 4095-4103	7.9	9
44	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
43	Preparation of corn stalk-based adsorbents and their specific application in metal ions adsorption. <i>Chemical Papers</i> , 2016 , 70,	1.9	8
42	Metal Nanoparticles Confined within an Inorganic-Organic Framework Enable Superior Substrate-Selective Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42739-42748	9.5	8
41	Metallic rhombohedral NbS ₂ /2D g-C ₃ N ₄ composite with enhanced photogenerated carriers separation and photocatalytic performance. <i>Applied Surface Science</i> , 2021 , 542, 148619	6.7	8
40	Porous silver microrods by plasma vulcanization activation for enhanced electrocatalytic carbon dioxide reduction. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 793-799	9.3	8
39	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
38	Metallic 1T-TiS ₂ nanodots anchored on a 2D graphitic C ₃ N ₄ nanosheet nanostructure with high electron transfer capability for enhanced photocatalytic performance. <i>RSC Advances</i> , 2017 , 7, 55269-55275	3.7	7
37	Highly sensitive electrochemical immunosensor for the simultaneous detection of multiple tumor markers for signal amplification. <i>Talanta</i> , 2021 , 226, 122133	6.2	7
36	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
35	Transformation from Ag@Ag ₃ PO ₄ to Ag@Ag ₂ SO ₄ hybrid at room temperature: preparation and its visible light photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	6
34	Comparison of Triangular Silver Nanoprisms with Different Capping Agents and Structural Size for H ₂ O ₂ Etching-Based Biosensors. <i>Nano</i> , 2018 , 13, 1850022	1.1	6
33	Bio-mediated synthesis and antibacterial activity against aquatic pathogens of silver nanoparticles decorated titania nanosheets in dark and under solar-light irradiation. <i>Materials Technology</i> , 2018 , 33, 532-542	2.1	6
32	Exonuclease III assisted and label-free detection of mercury ion based on toehold strand displacement amplification strategy. <i>Analytical Methods</i> , 2016 , 8, 7054-7060	3.2	6
31	Bowl-shaped graphene oxide/Fe ₃ O ₄ composites on Au-PCB electrode for electrochemical detection of dopamine. <i>Ionics</i> , 2020 , 26, 4171-4181	2.7	5
30	An all-organic TPA-3CN/2D-C ₃ N ₄ heterostructure for high efficiency photocatalytic hydrogen evolution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 589, 124397	5.1	5

29	Minireview on the Commonly Applied Copper-Based Electrocatalysts for Electrochemical CO ₂ Reduction. <i>Energy & Fuels</i> , 2021 , 35, 8585-8601	4.1	5
28	Enhanced photoelectrochemical aptasensing triggered by nitrogen deficiency and cyano group simultaneously engineered 2D carbon nitride for sensitively monitoring atrazine.. <i>Biosensors and Bioelectronics</i> , 2022 , 206, 114144	11.8	5
27	Synthesis of novel polymer brushes of poly(acrylonitrile-g-N,N?-dimethylaminoethyl methacrylate) by nitrile modification. <i>Iranian Polymer Journal (English Edition)</i> , 2017 , 26, 355-364	2.3	4
26	2-Aminopurine modified DNA probe for rapid and sensitive detection of l-cysteine. <i>Talanta</i> , 2019 , 202, 520-525	6.2	4
25	An efficient method for the synthesis of a polymer brush via click chemistry and its ultrasensitive electrochemical detection of AFP. <i>Analytical Methods</i> , 2018 , 10, 2390-2397	3.2	4
24	Improved chiral electrochemical recognition of tryptophan enantiomers based on three-dimensional molecularly imprinted overoxidized polypyrrole/MnO ₂ /carbon felt composites. <i>Chirality</i> , 2019 , 31, 917-922	2.1	4
23	Synthesis of Photothermally Stable Triangular Silver Nanoplates for SERS Applications, Photokilling of Bacteria. <i>ChemNanoMat</i> , 2020 , 6, 148-153	3.5	4
22	Ultrafast electron extraction by 2D carbon nitride modified with CoS cocatalyst for efficient photocatalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 617, 126151	5.1	4
21	Synthesis of PAN copolymer containing pendant 2-ureido-4[1H]-pyrimidone (UPy) units by RAFT polymerization and its adsorption behaviors of Hg ²⁺ . <i>Polymer Bulletin</i> , 2018 , 75, 4327-4339	2.4	3
20	Iron-mediated activators generated by electron transfer for atom-transfer radical polymerization of methyl methacrylate using ionic liquid as ligand and Fe(0) wire as reducing agent. <i>Polymer International</i> , 2015 , 64, 1754-1761	3.3	3
19	Inherent Facet-Dominant effect for cobalt oxide nanosheets to enhance photocatalytic CO ₂ reduction. <i>Applied Surface Science</i> , 2022 , 578, 151848	6.7	3
18	Crystal phase engineering boosted photo-electrochemical kinetics of CoSe for oxygen evolution catalysis.. <i>Journal of Colloid and Interface Science</i> , 2021 , 611, 22-28	9.3	3
17	Accelerating photocatalytic hydrogen evolution of Ta ₂ O ₅ /g-C ₃ N ₄ via nanostructure engineering and surface assembly. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 20516-20523	6.7	3
16	Plasma-induced black bismuth tungstate as a photon harvester for photocatalytic carbon dioxide conversion. <i>New Journal of Chemistry</i> , 2021 , 45, 1993-2000	3.6	3
15	In Situ Growth and Activation of Ag/Ag ₂ S Nanowire Clusters by H ₂ S Plasma Treatment for Promoted Electrocatalytic CO ₂ Reduction. <i>Advanced Sustainable Systems</i> , 2100256	5.9	3
14	A bubble-assisted strategy to prepare porous ultrathin carbon nitride for highly-active photocatalytic hydrogen production. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 163788	5.7	2
13	Synergistic effect of isolated Co and Fe dual active sites boosting the photocatalytic hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021 , 162290	5.7	2
12	Nanostructure and functional group engineering of black phosphorus via plasma treatment for CO ₂ photoreduction. <i>Journal of CO₂ Utilization</i> , 2021 , 54, 101745	7.6	2

11	Surface Engineering of 2D Carbon Nitride with Cobalt Sulfide Cocatalyst for Enhanced Photocatalytic Hydrogen Evolution. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2100012	1.6	2
10	Short-time Thermal Oxidation of Ultrathin and Broadband Carbon Nitride for Efficient Photocatalytic H ₂ Generation. <i>ChemCatChem</i> , 2020 , 12, 1169-1176	5.2	2
9	Fe atom clusters embedded N-doped graphene decorated with ultrathin mesoporous carbon nitride nanosheets for high efficient photocatalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 629, 127360	5.1	2
8	Ultrathin structure of oxygen doped carbon nitride for efficient CO ₂ photocatalytic reduction. <i>Nanotechnology</i> , 2021 ,	3.4	1
7	Self-assembly and boosted photodegradation properties of perylene diimide via different solvents. <i>New Journal of Chemistry</i> , 2021 , 45, 21701-21707	3.6	1
6	Integration of metallic TaS ₂ Co-catalyst on carbon nitride photoharvester for enhanced photocatalytic performance. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 1821-1827	2.3	1
5	Solar driven high efficiency hydrogen evolution catalyzed by surface engineered ultrathin carbon nitride. <i>New Journal of Chemistry</i> , 2020 , 44, 19314-19322	3.6	0
4	Steering Hole Transfer from the Light Absorber to Oxygen Evolution Sites for Photocatalytic Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2101158	4.6	0
3	Boosting CO ₂ Capture and Its Photochemical Conversion on Bismuth Surface. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000671	1.6	0
2	Multidimensional In ₂ O ₃ /In ₂ S ₃ heterojunction with lattice distortion for CO ₂ photoconversion. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1286-1294	11.3	0
1	Constructing Ni ₃ C/2D g-C ₃ N ₄ Photocatalyst and the Internal Catalytic Mechanism Study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2100171	1.6	