Chemical exfoliation of graphitic carbon nitride for efficient heterogeneous photocatalysis

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#	Paper	IF	Citations
966	Nanoparticles of Graphitic Carbon Nitride: Stabilization in Aqueous Solutions, Spectral and Luminescent Properties. **2014**, 50, 291-298		2
965	Novel 3-D nanoporous graphitic-C3N4 nanosheets with heterostructured modification for efficient visible-light photocatalytic hydrogen production. **2014**, 4, 52332-52337		15
964	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
963	Bandgap engineering and mechanism study of nonmetal and metal ion codoped carbon nitride: C+Fe as an example. **2014**, 20, 9805-12		125
962	Synthesis of graphene-like g-C3N4/Fe3O4 nanocomposites with high photocatalytic activity and applications in drug delivery. **2014**, 4, 62492-62498		40
961	Enhanced photocatalytic performance of g-C3N4 nanosheetsBiOBr hybrids. **2014**, 76, 90-104		40
960	Vacuum heat-treatment of carbon nitride for enhancing photocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2014**, 2, 17797-17807	13	74
959	Platinum nanoparticles strongly associated with graphitic carbon nitride as efficient co-catalysts for photocatalytic hydrogen evolution under visible light. **2014**, 50, 15255-8		133
958	Porous carbon nitride nanosheets for enhanced photocatalytic activities. **2014**, 6, 14984-90		95
957	Constructing atomic layer g-CNECdS nanoheterojunctions with efficiently enhanced visible light photocatalytic activity. **2014**, 16, 21280-8		126
956	Construction of exfoliated g-C3N4 nanosheetsBiOCl hybrids with enhanced photocatalytic performance. **2014**, 4, 28519		65
955	Dependence of electronic structure of g-C3N4 on the layer number of its nanosheets: A study by Raman spectroscopy coupled with first-principles calculations. **2014**, 80, 213-221		200
954	Fabrication of atomic single layer graphitic-C3N4 and its high performance of photocatalytic disinfection under visible light irradiation. **2014**, 152-153, 46-50		319
953	g-C3N4-Based Photocatalysts for Hydrogen Generation. **2014**, 5, 2101-7		947
952	Synthesis and characterization of g-C3N4/Bi2MoO6 heterojunctions with enhanced visible light photocatalytic activity. **2014**, 160-161, 89-97		418
951	Fabrication, characterization, and photocatalytic performance of exfoliated g-C3N4TiO2 hybrids. **2014**, 311, 574-581		151
950	Nanostructured Carbon Nitrides for Photocatalytic Water Splitting. **2015**, 281-300		1

949	Polymeres graphitisches Kohlenstoffnitrid f□ die nachhaltige Photoredoxkatalyse. **2015**, 127, 13060-13077		130
948	Oxidized carbon nitrides: water-dispersible, atomically thin carbon nitride-based nanodots and their performances as bioimaging probes. **2015**, 21, 6241-6		76
947	Graphitic Carbon Nitride Polymers toward Sustainable Photoredox Catalysis. **2015**, 54, 12868-84		1014
946	. **2015**,		13
945	Switching the photocatalytic activity of g-C3N4 by homogenous surface chemical modification with nitrogen residues and vacancies. **2015**, 5, 21430-21433		18
944	Supporting 1-D AgVO3 nanoribbons on single layer 2-D graphitic carbon nitride ultrathin nanosheets and their excellent photocatalytic activities. **2015**, 501, 74-82		64
943	Nitrogen self-doped graphitic carbon nitride as efficient visible light photocatalyst for hydrogen evolution. *Journal of Materials Chemistry A*, **2015**, 3, 13819-13826	13	314
942	BiOBr/protonated graphitic C3N4 heterojunctions: Intimate interfaces by electrostatic interaction and enhanced photocatalytic activity. **2015**, 634, 215-222		133
941	Synthesis of TiO2/g-C3N4 nanocomposites as efficient photocatalysts dependent on the enhanced photogenerated charge separation. **2015**, 70, 494-499		65
940	Fluorescence sensing of chromium (VI) and ascorbic acid using graphitic carbon nitride nanosheets as a fluorescent "switch". **2015**, 68, 210-217		212
939	Template-free preparation and characterization of nanoporous g-C3N4 with enhanced visible photocatalytic activity. **2015**, 628, 372-378		44
938	Micro/nano-structured graphitic carbon nitride□Ag nanoparticle hybrids as surface-enhanced Raman scattering substrates with much improved long-term stability. **2015**, 87, 193-205		63
937	Dissolution and liquid crystals phase of 2D polymeric carbon nitride. **2015**, 137, 2179-82		244
936	A label-free fluorescence sensing approach for selective and sensitive detection of 2,4,6-trinitrophenol (TNP) in aqueous solution using graphitic carbon nitride nanosheets. **2015**, 87, 1288-96		258
935	Effect of morphology on the photocatalytic activity of g-C3N4 photocatalysts under visible-light irradiation. **2015**, 32, 76-81		36
934	Ultra-thin C3N4 nanosheets for rapid charge transfer in the core□shell heterojunction of □sulfur@C3N4 for superior metal-free photocatalysis under visible light. **2015**, 5, 15052-15058		35
933	Hydrothermal synthesis of carbon-rich graphitic carbon nitride nanosheets for photoredox catalysis. *Journal of Materials Chemistry A*, **2015**, 3, 3281-3284	13	92
932	Brand new P-doped g-C3N4: enhanced photocatalytic activity for H2 evolution and Rhodamine B degradation under visible light. *Journal of Materials Chemistry A*, **2015**, 3, 3862-3867	13	381

931	Facile synthesis and enhanced visible-light photocatalysis of graphitic carbon nitride composite semiconductors. **2015**, 8, 1189-96	97
930	High yield synthesis of nano-size g-C3N4 derivatives by a dissolve-regrowth method with enhanced photocatalytic ability. **2015**, 5, 26281-26290	47
929	Polymeric photocatalysts based on graphitic carbon nitride. **2015**, 27, 2150-76	2367
928	Nanoporous photocatalysts developed through heat-driven stacking of graphitic carbon nitride nanosheets. **2015**, 5, 14027-14033	25
927	Two-dimensional covalent carbon nitride nanosheets: synthesis, functionalization, and applications. **2015**, 8, 3092-3108	769
926	Recent progress in g-C3N4 based low cost photocatalytic system: activity enhancement and emerging applications. **2015**, 5, 5048-5061	179
925	Mechanically exfoliated g-C3N4 thin nanosheets by ball milling as high performance photocatalysts. **2015**, 5, 56239-56243	46
924	Exfoliated carbon nitride nanosheets decorated with NiS as an efficient noble-metal-free visible-light-driven photocatalyst for hydrogen evolution. **2015**, 17, 17355-61	87
923	Highly efficient photocatalysts of Pt/BN/CdS constructed by using the Pt as the electron acceptor and the BN as the holes transfer for H2-production. **2015**, 637, 483-488	26
922	Preparation of □Bi2O3/g-C3N4 nanosheet p□ junction for enhanced photocatalytic ability under visible light illumination. **2015**, 17, 1	26
921	Facile in Situ Preparation of Graphitic-C□N□@carbon Paper As an Efficient Metal-Free Cathode for Nonaqueous Li-O□Battery. **2015**, 7, 10823-7	65
920	Preparation and optical properties of highly luminescent colloidal single-layer carbon nitride. **2015**, 5, 46843-46849	22
919	Photodegradation of Imidacloprid in Aqueous Solution by the Metal-Free Catalyst Graphitic Carbon Nitride using an Energy-Saving Lamp. **2015**, 63, 4754-60	35
918	Enhanced visible light photocatalytic activity and oxidation ability of porous graphene-like g-C3N4 nanosheets via thermal exfoliation. **2015**, 358, 393-403	280
917	A highly active and durable Co-N-C electrocatalyst synthesized using exfoliated graphitic carbon nitride nanosheets. **2015**, 7, 10334-9	45
916	Switching Oxygen Reduction Pathway by Exfoliating Graphitic Carbon Nitride for Enhanced Photocatalytic Phenol Degradation. **2015**, 6, 958-63	112
915	Seed-induced growing various TiO□nanostructures on g-C□N□nanosheets with much enhanced photocatalytic activity under visible light. **2015**, 292, 79-89	141
914	The amphoteric properties of g-C3N4 nanosheets and fabrication of their relevant heterostructure photocatalysts by an electrostatic re-assembly route. **2015**, 51, 7176-9	196

913	A scalable chemical route to soluble acidified graphitic carbon nitride: an ideal precursor for isolated ultrathin g-C3N4 nanosheets. **2015**, 7, 8701-6		194
912	A simple melamine-assisted exfoliation of polymeric graphitic carbon nitrides for highly efficient hydrogen production from water under visible light. *Journal of Materials Chemistry A*, **2015**, 3, 22404-22412	13	76
911	Recent development in exfoliated two-dimensional g-C3N4 nanosheets for photocatalytic applications. *Journal of Materials Chemistry A*, **2015**, 3, 23642-23652	13	311
910	Porous P-doped graphitic carbon nitride nanosheets for synergistically enhanced visible-light photocatalytic H2 production. **2015**, 8, 3708-3717		903
909	Investigating the Dispersion Behavior in Solvents, Biocompatibility, and Use as Support for Highly Efficient Metal Catalysts of Exfoliated Graphitic Carbon Nitride. **2015**, 7, 24032-45		44
908	A graphitic-C3N4-hybridized Ag3PO4 tetrahedron with reactive {111} facets to enhance the visible-light photocatalytic activity. **2015**, 5, 91979-91987		50
907	Chemical Cleavage of Layered Carbon Nitride with Enhanced Photoluminescent Performances and Photoconduction. **2015**, 9, 12480-7		211
906	Templateless Infrared Heating Process for Fabricating Carbon Nitride Nanorods with Efficient Photocatalytic H2 Evolution. **2015**, 7, 25162-70		73
905	An efficient top-down approach for the fabrication of large-aspect-ratio g-C3N4 nanosheets with enhanced photocatalytic activities. **2015**, 17, 23532-7		68
904	Copper nanoparticles modified graphitic carbon nitride nanosheets as a peroxidase mimetic for glucose detection. **2015**, 5, 91302-91307		35
903	Novel PtCo alloy nanoparticle decorated 2D g-C3N4 nanosheets with enhanced photocatalytic activity for H2 evolution under visible light irradiation. *Journal of Materials Chemistry A*, **2015**, 3, 23274-23282	13	108
902	Rapid and high-yield production of g-C3N4 nanosheets via chemical exfoliation for photocatalytic H2 evolution. **2015**, 5, 88149-88153		74
901	A simple process to prepare few-layer g-C3N4 nanosheets with enhanced photocatalytic activities. **2015**, 358, 246-251		80
900	Enhanced photocatalytic activity of g-C3N4 for selective CO2 reduction to CH3OH via facile coupling of ZnO: a direct Z-scheme mechanism. *Journal of Materials Chemistry A*, **2015**, 3, 19936-19947	13	670
899	A review on g-C3N4 for photocatalytic water splitting and CO2 reduction. **2015**, 358, 15-27		560
898	Earth-abundant NiS co-catalyst modified metal-free mpg-C3N4/CNT nanocomposites for highly efficient visible-light photocatalytic H2 evolution. **2015**, 44, 18260-9		102
897	One-pot hydrothermal route to synthesize the ZnIn2S4/g-C3N4 composites with enhanced photocatalytic activity. **2015**, 50, 8142-8152		43
896	Preparation of water-dispersible porous g-C3N4 with improved photocatalytic activity by chemical oxidation. **2015**, 17, 3309-15		202

895	Facile Synthesis of g-C3N4 Nanosheets/ZnO Nanocomposites with Enhanced Photocatalytic Activity in Reduction of Aqueous Chromium(VI) under Visible Light. **2016**, 6,		89
894	Hydrogen from Water over Openly-Structured Graphitic Carbon Nitride Polymer through Photocatalysis. **2016**, 9, 478-84		21
893	Photoactivity of g-C3 N4 /S-Doped Porous Carbon Composite: Synergistic Effect of Composite Formation. **2016**, 9, 795-9		39
892	Polycondensation of ammonium thiocyanate into novel porous g-C3N4 nanosheets as photocatalysts for enhanced hydrogen evolution under visible light irradiation. **2016**, 37, 1899-1906		27
891	Self-catalytic membrane photo-reactor made of carbon nitride nanosheets. *Journal of Materials Chemistry A*, **2016**, 4, 11666-11671	13	38
890	Charge carrier kinetics of carbon nitride colloid: a femtosecond transient absorption spectroscopy study. **2016**, 18, 14904-10		41
889	Fabrication of high-activity hybrid NiTiO3/g-C3N4 heterostructured photocatalysts for water splitting to enhanced hydrogen production. **2016**, 42, 12297-12305		59
888	Graphitic Carbon Nitride (g-C3N4)-Based Photocatalysts for Artificial Photosynthesis and Environmental Remediation: Are We a Step Closer To Achieving Sustainability?. **2016**, 116, 7159-329		4018
887	Surface localization of CdZnS quantum dots onto 2D g-C3N4 ultrathin microribbons: Highly efficient visible light-induced H2-generation. **2016**, 26, 248-256		178
886	Molten salt synthesis of water-dispersible polymeric carbon nitride nanoseaweeds and their application as luminescent probes. **2016**, 102, 477-486		72
885	Remedying Defects in Carbon Nitride To Improve both Photooxidation and H2 Generation Efficiencies. **2016**, 6, 3365-3371		115
884	Constructing a novel carbon nitride/polyaniline/ZnO ternary heterostructure with enhanced photocatalytic performance using exfoliated carbon nitride nanosheets as supports. **2016**, 314, 67-77		90
883	Efficient C3N4/graphene oxide macroscopic aerogel visible-light photocatalyst. *Journal of Materials Chemistry A*, **2016**, 4, 7823-7829	13	153
882	Dyed graphitic carbon nitride with greatly extended visible-light-responsive range for hydrogen evolution. **2016**, 339, 93-101		57
881	Improving the surface-enhanced Raman scattering activity of carbon nitride by two-step calcining. **2016**, 6, 47368-47372		10
880	Removing lignin model pollutants with BiFeO-g-CN compound as an efficient visible-light-heterogeneous Fenton-like catalyst. **2016**, 48, 218-229		38
879	Integration of microfiltration and visible-light-driven photocatalysis on g-C 3 N 4 nanosheet/reduced graphene oxide membrane for enhanced water treatment. **2016**, 194, 134-140		155
878	One-pot hydrothermal fabrication of layered Ni(OH) 2 /g-C 3 N 4 nanohybrids for enhanced photocatalytic water splitting. **2016**, 194, 74-83		85

877	Nitrogen-rich graphitic carbon nitride: Controllable nanosheet-like morphology, enhanced visible light absorption and superior photocatalytic performance. **2016**, 508, 257-264	76
876	Graphitic Carbon Nitride Materials: Sensing, Imaging and Therapy. **2016**, 12, 5376-5393	152
875	A facile and rapid route for synthesis of g-C3N4 nanosheets with high adsorption capacity and photocatalytic activity. **2016**, 6, 86688-86694	60
874	Highly efficient visible-light photocatalytic activity of graphitic carbon nitride prepared from melamine-thiourea molecular composite. **2016**, 4, 4374-4384	24
873	One step preparation of proton-functionalized photoluminescent graphitic carbon nitride and its sensing applications. **2016**, 6, 98893-98898	16
872	(NH4)2SO4-assisted polycondensation of dicyandiamide for porous g-C3N4 with enhanced photocatalytic NO removal. **2016**, 6, 96334-96338	16
871	Facile solvothermal synthesis of a high-efficiency CNNs/Ag/AgCl plasmonic photocatalyst. **2016**, 18, 27257-27264	64
870	Fluorescent graphene-like carbon nitrides: synthesis, properties and applications. **2016**, 4, 8146-8160	62
869	Construction of Large-Scale Ultrathin Graphitic Carbon Nitride Nanosheets by a Hydrogen-Bond-Assisted Strategy for Improved Photocatalytic Hydrogen Production and Ciprofloxacin Degradation Activity. **2016**, 8, 2838-2845	41
868	Polyaniline/Carbon Nitride Nanosheets Composite Hydrogel: A Separation-Free and High-Efficient Photocatalyst with 3D Hierarchical Structure. **2016**, 12, 4370-8	170
867	Beta-FeOOH-supported graphitic carbon nitride as an efficient visible light photocatalyst. **2016**, 423, 463-471	30
866	Facile Construction of g-C3N4 Nanosheets/TiO2 Nanotube Arrays as Z-Scheme Photocatalyst with Enhanced Visible-Light Performance. **2016**, 8, 3064-3073	58
865	Novel composites of graphitic carbon nitride and NiO nanosheet arrays as effective photocathodes with enhanced photocurrent performances. **2016**, 6, 83350-83355	10
864	Toward High Performance 2D/2D Hybrid Photocatalyst by Electrostatic Assembly of Rationally Modified Carbon Nitride on Reduced Graphene Oxide. **2016**, 6, 37318	21
863	Reaction and Mechanistic Studies of Heterogeneous Hydroamination over Support-Stabilized Gold Nanoparticles. **2016**, 8, 3121-3130	12
862	Metal-Organic Framework/Layered Carbon Nitride Nanosandwiches for Superior Asymmetric Supercapacitor. **2016**, 1, 3730-3738	26
861	White light emission characteristics of two dimensional graphitic carbon nitride and ZnO nanorod hybrid heterojunctions. **2016**, 108, 335-342	54
860	Surface hydroxylation of graphitic carbon nitride: Enhanced visible light photocatalytic activity. **2016**, 84, 46-56	28

859	Synthesis and application of ternary photocatalyst with a gradient band structure from two-dimensional nanosheets as precursors. **2016**, 6, 108955-108963		18
858	Graphitic carbon nitride nanoribbon for enhanced visible-light photocatalytic H2 production. **2016**, 6, 112210-112214		20
857	Phosphorus-doped g-C3N4 nanosheets coated with square flake-like TiO2: Synthesis, characterization and photocatalytic performance in visible light. **2016**, 425, 340-348		39
856	Use of Single-Layer g-CN/Ag Hybrids for Surface-Enhanced Raman Scattering (SERS). **2016**, 6, 34599		37
855	Room-temperature synthesis of nanoporous 1D microrods of graphitic carbon nitride (g-C3N4) with highly enhanced photocatalytic activity and stability. **2016**, 6, 31147		122
854	Surface Modification of CN through Oxygen-Plasma Treatment: A Simple Way toward Excellent Hydrophilicity. **2016**, 8, 31419-31425		50
853	Graphene in Photocatalysis: A Review. **2016**, 12, 6640-6696		605
852	g-C3N4/TiO2 Nanocomposites for Degradation of Ciprofloxacin under Visible Light Irradiation. **2016**, 1, 5679-5685		35
851	The enhanced photocatalytic performance of Z-scheme two-dimensional/two-dimensional heterojunctions from graphitic carbon nitride nanosheets and titania nanosheets. **2016**, 478, 263-70		38
850	A review on the recent progress, challenges and perspective of layered double hydroxides as promising photocatalysts. *Journal of Materials Chemistry A*, **2016**, 4, 10744-10766	13	420
849	Improvement of g-C3N4 photocatalytic properties using the Hummers method. **2016**, 479, 1-6		45
848	Enhancement of catalytic activity and oxidative ability for graphitic carbon nitride. **2016**, 28, 87-115		155
847	Oxygenated monolayer carbon nitride for excellent photocatalytic hydrogen evolution and external quantum efficiency. **2016**, 27, 138-146		303
846	Mesoporous Graphitic Carbon Nitride-Based Nanospheres as Visible-Light Active Chemical Warfare Agents Decontaminant. **2016**, 2, 268-272		35
845	Phosphorylation of g-C3N4 for enhanced photocatalytic CO2 reduction. **2016**, 304, 376-383		126
844	An alkali treating strategy for the colloidization of graphitic carbon nitride and its excellent photocatalytic performance. **2016**, 468, 103-109		100
843	Photocatalytic performance of BiPO4 nanorods adjusted via defects. **2016**, 187, 204-211		117
842	A facile synthesis of g-C3N4/TiO2 hybrid photocatalysts by sol–gel method and its enhanced photodegradation towards methylene blue under visible light. **2016**, 27, 330-337		83

841	Facile synthesis of 3D porous thermally exfoliated g-C3N4 nanosheet with enhanced photocatalytic degradation of organic dye. **2016**, 468, 211-219	134
840	In situ generated g-C3N4/TiO2 hybrid over diatomite supports for enhanced photodegradation of dye pollutants. **2016**, 94, 403-409	47
839	Enhancement of the Cr(VI) adsorption and photocatalytic reduction activity of g-C3N4 by hydrothermal treatment in HNO3 aqueous solution. **2016**, 521, 9-18	95
838	Enhanced Cocatalyst-Free Visible-Light Activities for Photocatalytic Fuel Production of g-C3N4 by Trapping Holes and Transferring Electrons. **2016**, 120, 98-107	113
837	Significantly enhanced performance of g-C3N4/Bi2MoO6 films for photocatalytic degradation of pollutants under visible-light irradiation. **2016**, 32, 284-290	10
836	Graphene-linked graphitic carbon nitride/TiO2 nanowire arrays heterojunction for efficient solar-driven water splitting. **2016**, 46, 807-817	16
835	Bisulfite induced chemiluminescence of g-C3N4 nanosheets and enhanced by metal ions. **2016**, 8, 4933-7	38
834	A "pillared" process to construct graphitic carbon nitride based functionalized mesoporous materials. **2016**, 6, 15605-15609	10
833	Engineering monomer structure of carbon nitride for the effective and mild photooxidation reaction. **2016**, 100, 450-455	45
832	Isotype heterostructure of bulk and nanosheets of graphitic carbon nitride for efficient visible light photodegradation of methylene blue. **2016**, 6, 24976-24984	48
831	Synthesis of highly dispersed silver doped g-C 3 N 4 nanocomposites with enhanced visible-light photocatalytic activity. **2016**, 98, 223-230	90
830	Advances and applications of graphitic carbon nitride as sorbent in analytical chemistry for sample pretreatment: A review. **2016**, 84, 12-21	106
829	Water-assisted ions in situ intercalation for porous polymeric graphitic carbon nitride nanosheets with superior photocatalytic hydrogen evolution performance. **2016**, 190, 93-102	165
828	Construction of inorganic-organic 2D/2D WO/g-C N nanosheet arrays toward efficient photoelectrochemical splitting of natural seawater. **2016**, 18, 10255-61	99
827	N-doped graphitic carbon-incorporated g-C3N4 for remarkably enhanced photocatalytic H2 evolution under visible light. **2016**, 99, 111-117	263
826	Synthesis of MoS2/g-C3N4 nanosheets as 2D heterojunction photocatalysts with enhanced visible light activity. **2016**, 364, 694-702	220
825	Preparation of protonated, two-dimensional graphitic carbon nitride nanosheets by exfoliation, and their application as a fluorescent probe for trace analysis of copper(II). **2016**, 183, 773-780	30
824	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. **2016**, 187, 144-153	324

823	Cycloaddition of CO2 and epoxide catalyzed by amino- and hydroxyl-rich graphitic carbon nitride. **2016**, 6, 2942-2948	64
822	Energy gap engineering of polymeric carbon nitride nanosheets for matching with NaYF4:Yb,Tm: enhanced visible-near infrared photocatalytic activity. **2016**, 52, 453-6	40
821	Enhancement of mineralization ability for phenol via synergetic effect of photoelectrocatalysis of g-C3N4 film. **2016**, 180, 324-329	134
820	A review on g-C 3 N 4 -based photocatalysts. **2017**, 391, 72-123	1687
819	Development of hybrid photocatalysts constructed with a metal complex and graphitic carbon nitride for visible-light-driven CO reduction. **2017**, 19, 4938-4950	46
818	An efficient exfoliation method to obtain graphitic carbon nitride nanosheets with superior visible-light photocatalytic activity. **2017**, 42, 7930-7937	31
817	Synthesis of porous carbon-doped g-C3N4 nanosheets with enhanced visible-light photocatalytic activity. **2017**, 403, 682-690	105
816	Alkali-assisted mild aqueous exfoliation for single-layered and structure-preserved graphitic carbon nitride nanosheets. **2017**, 495, 19-26	24
815	Assembly of g-CN-based type II and Z-scheme heterojunction anodes with improved charge separation for photoelectrojunction water oxidation. **2017**, 19, 4507-4515	52
814	Ultrathin g-C3N4 nanosheets with an extended visible-light-responsive range for significant enhancement of photocatalysis. **2017**, 7, 2333-2341	86
813	A fluorescent carbon nitride nanofibrous hydrogel for selective sensing of Cu2+. **2017**, 7, 1318-1325	11
812	Photocatalytic Hydrogen Production: A Rift into the Future Energy Supply. **2017**, 9, 1523-1544	299
811	Thermal oxidative etching method derived graphitic C3N4: highly efficient metal-free catalyst in the selective epoxidation of styrene. **2017**, 7, 5340-5348	19
810	Tailoring the bandgap of N-rich graphitic carbon nitride for enhanced photocatalytic activity. **2017**, 43, 6437-6445	24
809	One-step exfoliation and fluorination of g-C3N4 nanosheets with enhanced photocatalytic activities. **2017**, 41, 3061-3067	37
808	Facile synthesis of mesoporous detonation nanodiamond-modified layers of graphitic carbon nitride as photocatalysts for the hydrogen evolution reaction. **2017**, 7, 15390-15396	20
807	First principle investigation of halogen-doped monolayer g-C3N4 photocatalyst. **2017**, 207, 27-34	306
806	Facile surfactant assistant synthesis of porous oxygen-doped graphitic carbon nitride nanosheets with enhanced visible light photocatalytic activity. **2017**, 91, 42-48	35

805	Graphitic carbon nitride as electrode sensing material for tetrabromobisphenol-A determination. **2017**, 248, 673-681	42
804	Chemiluminescence biosensor for hydrogen peroxide determination by immobilizing horseradish peroxidase onto PVA- co -PE nanofiber membrane. **2017**, 91, 307-314	19
803	Spectral and photophysical properties of size-selected ZnO nanocrystals coupled to single-layer carbon nitride sheets. **2017**, 2, 38-48	7
802	An inner filter effect fluorescent sensor based on g-C3N4 nanosheets/chromogenic probe for simple detection of glutathione. **2017**, 248, 639-645	25
801	In situ nitrogen-doped hollow-TiO2/g-C3N4 composite photocatalysts with efficient charge separation boosting water reduction under visible light. *Journal of Materials Chemistry A*, **2017**, 5, 9671-9681	92
800	Simultaneous Exfoliation and Modification of Graphitic Carbon Nitride Nanosheets. **2017**, 4, 1700339	27
799	One-step large-scale highly active g-CN nanosheets for efficient sunlight-driven photocatalytic hydrogen production. **2017**, 46, 10678-10684	73
798	Fast flash frozen synthesis of holey few-layer g-C3N4 with high enhancement of photocatalytic reactive oxygen species evolution under visible light irradiation. **2017**, 211, 266-274	70
797	Graphitic carbon nitride quantum dots in situ coupling to Bi2MoO6 nanohybrids with enhanced charge transfer performance and photoelectrochemical detection of copper ion. **2017**, 787, 66-71	30
796	Titanium dioxide and cadmium sulfide co-sensitized graphitic carbon nitride nanosheets composite photocatalysts with superior performance in phenol degradation under visible-light irradiation. **2017**, 490, 154-162	53
795	Improved photocatalytic activities of g-C3N4 nanosheets by effectively trapping holes with halogen-induced surface polarization and 2,4-dichlorophenol decomposition mechanism. **2017**, 218, 60-67	101
794	Fabrication of TiO 2 -doped single layer graphitic-C 3 N 4 and its visible-light photocatalytic activity. **2017**, 186, 226-232	17
793	Water Transport with Ultralow Friction through Partially Exfoliated g-C3N4 Nanosheet Membranes with Self-Supporting Spacers. **2017**, 129, 9102-9108	24
792	Water Transport with Ultralow Friction through Partially Exfoliated g-C N Nanosheet Membranes with Self-Supporting Spacers. **2017**, 56, 8974-8980	177
791	Effect of conjugation degree and delocalized π system on the photocatalytic activity of single layer g-C3N4. **2017**, 218, 137-146	49
790	P dopants induced ferromagnetism in g-C3N4 nanosheets: Experiments and calculations. **2017**, 110, 222403	19
789	Superior immobilization of U(VI) and 243Am(III) on polyethyleneimine modified lamellar carbon nitride composite from water environment. **2017**, 326, 863-874	98
788	Ultrafast Spectroscopy Reveals Electron-Transfer Cascade That Improves Hydrogen Evolution with Carbon Nitride Photocatalysts. **2017**, 139, 7904-7912	138

787	Precursor-reforming protocol to 3D mesoporous g-C3N4 established by ultrathin self-doped nanosheets for superior hydrogen evolution. **2017**, 38, 72-81	441
786	Synthesis of 13C-,15N-Labeled Graphitic Carbon Nitrides and NMR-Based Evidence of Hydrogen-Bonding Assisted Two-Dimensional Assembly. **2017**, 29, 5080-5089	67
785	A facile and one-pot synthesis of fluorescent graphitic carbon nitride quantum dots for bio-imaging applications. **2017**, 41, 3930-3938	90
784	From Millimeter to Subnanometer: Vapor–Solid Deposition of Carbon Nitride Hierarchical Nanostructures Directed by Supramolecular Assembly. **2017**, 129, 8546-8550	14
783	ZnCr LDH nanosheets modified graphitic carbon nitride for enhanced photocatalytic hydrogen production. **2017**, 42, 23427-23436	42
782	Enhanced photocatalytic activity by the construction of a TiO2/carbon nitride nanosheets heterostructure with high surface area via direct interfacial assembly. **2017**, 10, 2193-2209	57
781	Semiconductor-Based Nanomaterials for Photocatalytic Hydrogen Generation. **2017**, 487-543	
780	Enhanced photocatalytic conversion of greenhouse gas CO2 into solar fuels over g-C3N4 nanotubes with decorated transparent ZIF-8 nanoclusters. **2017**, 211, 1-10	218
779	Effect of the structure distortion on the high photocatalytic performance of C 60 /g-C 3 N 4 composite. **2017**, 414, 124-130	60
778	Polymeric Carbon Nitride-Based Composites for Visible-Light-Driven Photocatalytic Hydrogen Generation. **2017**, 579-621	6
777	Graphitic carbon nitride/phosphorus-rich aluminum phosphinates hybrids as smoke suppressants and flame retardants for polystyrene. **2017**, 332, 87-96	150
776	Graphitic carbon nitride: Synthesis, characterization and photocatalytic decomposition of nitrous oxide. **2017**, 193, 438-446	83
775	Novel (Na, O) co-doped g-C3N4 with simultaneously enhanced absorption and narrowed bandgap for highly efficient hydrogen evolution. **2017**, 209, 631-636	84
774	From Millimeter to Subnanometer: Vapor-Solid Deposition of Carbon Nitride Hierarchical Nanostructures Directed by Supramolecular Assembly. **2017**, 56, 8426-8430	66
773	A ternary photocatalyst of graphitic carbon nitride/cadmium sulfide/titania based on the electrostatic assembly using two-dimensional semiconductor nanosheets. **2017**, 491, 367-374	25
772	Rapid and highly efficient chemical exfoliation of layered MoS2 and WS2. **2017**, 699, 222-229	58
771	Ultrathin graphitic C3N4 nanosheets as highly efficient metal-free cocatalyst for water oxidation. **2017**, 205, 19-23	78
770	Effect of template-induced surface species on electronic structure and photocatalytic activity of g-C3N4. **2017**, 396, 933-938	14

769	A 2D self-assembled MoS/ZnInS heterostructure for efficient photocatalytic hydrogen evolution. **2017**, 9, 18290-18298	86
768	Acid-Exfoliated g-C3N4 Nanosheets Coated Silver Nanoparticles with Tunable Loading: An Efficient Catalyst for Visible Light Photocatalytic Reaction. **2017**, 2, 9947-9952	9
767	Supramolecular Synthesis of Multifunctional Holey Carbon Nitride Nanosheet with High-Efficiency Photocatalytic Performance. **2017**, 5, 1700536	38
766	Three-dimensional Porous C3N4 Nanosheets@Reduced Graphene Oxide Network as Sulfur Hosts for High Performance Lithium-Sulfur Batteries. **2017**, 256, 1-9	46
765	Synthesis, properties, and application of polymeric carbon nitrides. **2017**, 66, 782-807	7
764	Plasmon mediated enhancement and tuning of optical emission properties of two dimensional graphitic carbon nitride nanosheets. **2017**, 28, 485204	9
763	Origin of Modified Luminescence Response in Reduced Graphitic Carbon Nitride Nanosheets. **2017**, 121, 19383-19391	25
762	Folded nano-porous graphene-like carbon nitride with significantly improved visible-light photocatalytic activity for dye degradation. **2017**, 43, 15785-15792	20
761	Melamine-based dendrimer amine-modified magnetic nanoparticles as an efficient Pb(II) adsorbent for wastewater treatment: Adsorption optimization by response surface methodology. **2017**, 189, 291-300	41
760	Adsorption investigation of CO2 on g-C3N4 surface by DFT calculation. **2017**, 21, 327-335	81
759	Efficient Photocatalytic Hydrogen Evolution on Band Structure Tuned Polytriazine/Heptazine Based Carbon Nitride Heterojunctions with Ordered Needle-like Morphology Achieved by an In Situ Molten Salt Method. **2017**, 121, 21497-21509	45
758	3D Foam Strutted Graphene Carbon Nitride with Highly Stable Optoelectronic Properties. **2017**, 27, 1703711	64
757	Scalable and super-stable exfoliation of graphitic carbon nitride in biomass-derived □valerolactone: enhanced catalytic activity for the alcoholysis and cycloaddition of epoxides with CO2. **2017**, 19, 5041-5045	27
756	High efficiency for H2 evolution and NO removal over the Ag nanoparticles bridged g-C3N4 and WS2 heterojunction photocatalysts. **2017**, 219, 467-478	66
755	Graphitic carbon nitride modified by thermal, chemical and mechanical processes as metal-free photocatalyst for the selective synthesis of benzaldehyde from benzyl alcohol. **2017**, 353, 44-53	65
754	Preparation of Carbon-Rich g-C N Nanosheets with Enhanced Visible Light Utilization for Efficient Photocatalytic Hydrogen Production. **2017**, 13, 1701552	105
753	Enhanced Visible-Light-Driven Photocatalytic Disinfection Performance and Organic Pollutant Degradation Activity of Porous g-CN Nanosheets. **2017**, 9, 27727-27735	242
752	Ultrathin graphitic carbon nitride nanosheets with remarkable photocatalytic hydrogen production under visible LED irradiation. **2017**, 53, 9430-9433	34

751	Preparation of 2D graphitic carbon nitride nanosheets by a green exfoliation approach and the enhanced photocatalytic performance. **2017**, 52, 13091-13102		72
750	Modification of surface properties and enhancement of photocatalytic performance for g-C3N4 via plasma treatment. **2017**, 123, 651-659		36
749	Construction of Plasmonic Ag and Nitrogen-Doped Graphene Quantum Dots Codecorated Ultrathin Graphitic Carbon Nitride Nanosheet Composites with Enhanced Photocatalytic Activity: Full-Spectrum Response Ability and Mechanism Insight. **2017**, 9, 42816-42828		116
748	In situ structural modification of graphitic carbon nitride by alkali halides and influence on photocatalytic activity. **2017**, 7, 32592-32600		31
747	Interlayer interaction in ultrathin nanosheets of graphitic carbon nitride for efficient photocatalytic hydrogen evolution. **2017**, 352, 491-497		57
746	Hydrothermal synthesis of novel g-C3N4/BiOCl heterostructure nanodiscs for efficient visible light photodegradation of Rhodamine B. **2017**, 123, 1		25
745	One-step template/chemical blowing route to synthesize flake-like porous carbon nitride photocatalyst. **2017**, 94, 423-427		22
744	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H2 Evolution and CO2 Reduction. **2017**, 5, 7260-7268		224
743	Mesoporous carbon nitrides: synthesis, functionalization, and applications. **2017**, 46, 72-101		427
742	Ultra-thin nanosheet assemblies of graphitic carbon nitride for enhanced photocatalytic CO2 reduction. *Journal of Materials Chemistry A*, **2017**, 5, 3230-3238	13	465
741	Inorganic salt-assisted fabrication of graphitic carbon nitride with enhanced photocatalytic degradation of Rhodamine B. **2017**, 188, 130-133		22
740	Insight into highly efficient simultaneous photocatalytic removal of Cr(VI) and 2,4-diclorophenol under visible light irradiation by phosphorus doped porous ultrathin g-C3N4 nanosheets from aqueous media: Performance and reaction mechanism. **2017**, 203, 343-354		383
739	Effect of exfoliation and surface deposition of MnOx species in g-C3N4: Toluene photo-degradation under UV and visible light. **2017**, 203, 663-672		38
738	Fabrication and photocatalytic activity enhanced mechanism of direct Z-scheme g-C3N4/Ag2WO4 photocatalyst. **2017**, 391, 175-183		477
737	Synthesis of SnO2/B-P codoped g-C3N4 nanocomposites as efficient cocatalyst-free visible-light photocatalysts for CO2 conversion and pollutant degradation. **2017**, 201, 486-494		210
736	Two exfoliation approaches for organic layered compounds: hydrophilic and hydrophobic polydiacetylene nanosheets. **2017**, 8, 647-653		34
735	Constructing a novel ternary composite (C16H33(CH3)3N)4W10O32/g-C3N4/rGO with enhanced visible-light-driven photocatalytic activity for degradation of dyes and phenol. **2017**, 200, 283-296		78
734	Improvement of the photocatalytic hydrogen production rate of g-C 3 N 4 following the elimination of defects on the surface. **2017**, 293-294, 8-14		29

733	Post-synthetic regulation of the structure, morphology and photoactivity of graphitic carbon nitride by heat-vacuum treatment. **2017**, 114, 208-213	5
732	Selective photocatalytic oxidation of 5-hydroxymethyl-2-furfural to 2,5-furandicarboxyaldehyde in aqueous suspension of g-C3N4. **2017**, 204, 430-439	114
731	Ag/Bi 12 O 17 Cl 2 composite: A case study of visible-light-driven plasmonic photocatalyst. **2017**, 427, 45-53	27
730	Bandgap engineering of ultrathin graphene-like carbon nitride nanosheets with controllable oxygenous functionalization. **2017**, 113, 63-75	84
729	Photoelectrocatalytic degradation of phenol-containing wastewater by TiO2/g-C3N4 hybrid heterostructure thin film. **2017**, 201, 600-606	218
728	In situ growing BiMoO on g-CN nanosheets with enhanced photocatalytic hydrogen evolution and disinfection of bacteria under visible light irradiation. **2017**, 321, 183-192	247
727	Preparation of g-C□N□/Graphene Composite for Detecting NO□at Room Temperature. **2017**, 7,	39
726	Ultrathin g-C3N4 Nanosheet-Modified BiOCl Hierarchical Flower-Like Plate Heterostructure with Enhanced Photostability and Photocatalytic Performance. **2017**, 7, 266	27
725	Two-dimensional carbon-based nanocomposites for photocatalytic energy generation and environmental remediation applications. **2017**, 8, 1571-1600	94
724	Highly specific and sensitive determination of propyl gallate in food by a novel fluorescence sensor. **2018**, 256, 45-52	18
723	Molecular engineering of polymeric carbon nitride: advancing applications from photocatalysis to biosensing and more. **2018**, 47, 2298-2321	362
722	Self-assembled hierarchical carbon/g-C3N4 composite with high photocatalytic activity. **2018**, 51, 135501	9
721	Highly Crystalline Carbon Nitride Nanosheets for Ultrahigh Photocatalytic Hydrogen Evolution. **2018**, 2, 490-497	11
720	Exploring the formation and electronic structure properties of the g-CN nanoribbon with density functional theory. **2018**, 30, 155303	7
719	Porous graphitic carbon nitride nanosheets by pre-polymerization for enhanced photocatalysis. **2018**, 139, 89-99	46
718	Unprecedented Centimeter-Long Carbon Nitride Needles: Synthesis, Characterization and Applications. **2018**, 14, e1800633	53
717	Facile preparation of CuO/g-C 3 N 4 with enhanced photocatalytic degradation of salicylic acid. **2018**, 105, 68-74	47
716	A novel efficient g-CN@BiOI p-n heterojunction photocatalyst constructed through the assembly of g-CN nanoparticles. **2018**, 47, 7353-7361	51

715	Fabrication of 2D SnS/g-CN heterojunction with enhanced H evolution during photocatalytic water splitting. **2018**, 524, 313-324	104
714	Carbon and Nitrogen Based Nanosheets as Fluorescent Probes with Tunable Emission. **2018**, 14, e1800516	16
713	Synthesis of novel and stable g-CN-BiWO hybrid nanocomposites and their enhanced photocatalytic activity under visible light irradiation. **2018**, 5, 171419	16
712	Stable 1T-phase MoS as an effective electron mediator promoting photocatalytic hydrogen production. **2018**, 10, 9292-9303	49
711	A facile and scalable route for synthesizing ultrathin carbon nitride nanosheets with efficient solar hydrogen evolution. **2018**, 136, 160-167	22
710	Sunlight-Driven Hydrogen Production Using an Annular Flow Photoreactor and g-C3N4-Based Catalysts. **2018**, 2, 870-877	14
709	N-doped CsTi2NbO7@g-C3N4 core-shell nanobelts with enhanced visible light photocatalytic activity. **2018**, 217, 235-238	14
708	WS /Graphitic Carbon Nitride Heterojunction Nanosheets Decorated with CdS Quantum Dots for Photocatalytic Hydrogen Production. **2018**, 11, 1187-1197	95
707	H2 Evolution over g-C3N4/CsxWO3 under NIR light. **2018**, 228, 75-86	42
706	Boronic acid functionalized g-CN nanosheets for ultrasensitive and selective sensing of glycoprotein in the physiological environment. **2018**, 10, 4913-4920	39
705	Silver cyanamide nanoparticles decorated ultrathin graphitic carbon nitride nanosheets for enhanced visible-light-driven photocatalysis. **2018**, 8, 1447-1453	13
704	Role of Interfaces in Two-Dimensional Photocatalyst for Water Splitting. **2018**, 8, 2253-2276	558
703	Advances in the use of carbonaceous materials for the electrochemical determination of persistent organic pollutants. A review. **2018**, 185, 112	23
702	Template-Free Synthesis of Hollow G-C3N4 Polymer with Vesicle Structure for Enhanced Photocatalytic Water Splitting. **2018**, 122, 3786-3793	46
701	UV-light-assisted ethanol sensing characteristics of g-C3N4/ZnO composites at room temperature. **2018**, 441, 317-323	30
700	Ordered layered N-doped KTiNbO5/g-C3N4 heterojunction with enhanced visible light photocatalytic activity. **2018**, 228, 54-63	96
699	Z-scheme g-C3N4@CsxWO3 heterostructure as smart window coating for UV isolating, Vis penetrating, NIR shielding and full spectrum photocatalytic decomposing VOCs. **2018**, 229, 218-226	124
698	Engineering oxygen-containing and amino groups into two-dimensional atomically-thin porous polymeric carbon nitrogen for enhanced photocatalytic hydrogen production. **2018**, 11, 566-571	223

697	CoO and g-C3N4 complement each other for highly efficient overall water splitting under visible light. **2018**, 226, 412-420		125
696	Sulfur (VI) modified graphite carbon nitride nanosheets with chrysanthemum-like structure and enhanced photocatalytic activity. **2018**, 693, 1-7		10
695	Heterojuncted non-metal binary composites silicon carbide/g-C3N4 with enhanced photocatalytic performance. **2018**, 75, 183-192		50
694	Facile One-Pot Two-Step Synthesis of Novel in Situ Selenium-Doped Carbon Nitride Nanosheet Photocatalysts for Highly Enhanced Solar Fuel Production from CO2. **2018**, 1, 47-54		45
693	Preparation of nanoscale-dispersed g-C3N4/graphene oxide composite photocatalyst with enhanced visible-light photocatalytic activity. **2018**, 217, 143-145		13
692	Rationally designed MoS/protonated g-CN nanosheet composites as photocatalysts with an excellent synergistic effect toward photocatalytic degradation of organic pollutants. **2018**, 347, 431-441		80
691	Graphitic carbon nitride nanosheets as highly efficient photocatalysts for phenol degradation under high-power visible LED irradiation. **2018**, 100, 322-332		52
690	Multifunctional g-C 3 N 4 /graphene oxide wrapped sponge monoliths as highly efficient adsorbent and photocatalyst. **2018**, 235, 17-25		89
689	Simultaneously enhancing ionic conduction and mechanical strength of poly(ether sulfones)-poly(vinyl pyrrolidone) membrane by introducing graphitic carbon nitride nanosheets for high temperature proton exchange membrane fuel cell application. **2018**, 558, 26-33		54
688	Removal of Microcystis aeruginosa and Microcystin-LR using a graphitic-C3N4/TiO2 floating photocatalyst under visible light irradiation. **2018**, 348, 380-388		71
687	Rapid high-temperature treatment on graphitic carbon nitride for excellent photocatalytic H2-evolution performance. **2018**, 233, 80-87		52
686	Enhancement of acid treated g-C3N4Cu2O photocatalytic activity by PEG under visible light irradiation. **2018**, 699, 241-249		10
685	Enhanced charge carrier separation of manganese(II)-doped graphitic carbon nitride: formation of N□Mn bonds through redox reactions. *Journal of Materials Chemistry A*, **2018**, 6, 6238-6243	13	29
684	A facile dissolution strategy facilitated by H2SO4 to fabricate a 2D metal-free g-C3N4/rGO heterojunction for efficient photocatalytic H2 production. **2018**, 43, 7007-7019		34
683	NO removal efficiency of high-yield carbon nitride irradiated under various light sources. **2018**, 73, 83-91		2
682	Heteroatom-Doped Carbonaceous Photocatalysts for Solar Fuel Production and Environmental Remediation. **2018**, 10, 62-123		32
681	Facile synthesis and superior photocatalytic and electrocatalytic performances of porous B-doped g-C3N4 nanosheets. **2018**, 34, 2515-2520		68
680	NiS and MoS nanosheet co-modified graphitic CN ternary heterostructure for high efficient visible light photodegradation of antibiotic. **2018**, 341, 10-19		138

679	Synthesis of barbituric acid doped carbon nitride for efficient solar-driven photocatalytic degradation of aniline. **2018**, 428, 739-747	19
678	Facile fabrication of mediator-free Z-scheme photocatalyst of phosphorous-doped ultrathin graphitic carbon nitride nanosheets and bismuth vanadate composites with enhanced tetracycline degradation under visible light. **2018**, 509, 219-234	116
677	Photocatalytic reduction of CO2 to CO over copper decorated g-C3N4 nanosheets with enhanced yield and selectivity. **2018**, 427, 1165-1173	97
676	In situ construction of hierarchical WO3/g-C3N4 composite hollow microspheres as a Z-scheme photocatalyst for the degradation of antibiotics. **2018**, 220, 417-428	284
675	Enhanced photocatalytic performances of ultrafine g-C3N4 nanosheets obtained by gaseous stripping with wet nitrogen. **2018**, 427, 730-738	37
674	g-C3N4-Based Heterostructured Photocatalysts. **2018**, 8, 1701503	1245
673	The visible light hydrogen production of the Z-Scheme Ag3PO4/Ag/g-C3N4 nanosheets composites. **2018**, 53, 1978-1986	39
672	Direct catalytic hydroxylation of benzene to phenol catalyzed by vanadia supported on exfoliated graphitic carbon nitride. **2018**, 549, 31-39	31
671	A facile synthesis of boron nitride nanosheets and their potential application in dye adsorption. **2018**, 81, 89-95	27
670	Structural insights into photocatalytic performance of carbon nitrides for degradation of organic pollutants. **2018**, 258, 559-565	11
669	Water soluble graphitic carbon nitride with tunable fluorescence for boosting broad-response photocatalysis. **2018**, 225, 519-529	41
668	Constructing 2D graphitic carbon nitride nanosheets/layered MoS2/graphene ternary nanojunction with enhanced photocatalytic activity. **2018**, 225, 468-476	140
667	Combination of ultrasound-treated 2D g-CN with Ag/black TiO nanostructure for improved photocatalysis. **2018**, 42, 517-525	17
666	Photocatalytic properties of nano-structured carbon nitride: a comparison with bulk graphitic carbon nitride. **2018**, 109, 129-135	4
665	2D/2D g-C3N4/MnO2 Nanocomposite as a Direct Z-Scheme Photocatalyst for Enhanced Photocatalytic Activity. **2018**, 6, 965-973	392
664	Semiconductor-Based Photocatalytic Systems for the Solar-Light-Driven Water Splitting and Hydrogen Evolution. **2018**, 39-125	1
663	Metal-Free Organic Semiconductors for Visible-Light-Active Photocatalytic Water Splitting. **2018**, 329-363	
662	Green synthesis of g-C3N4-Pt catalyst and application to photocatalytic hydrogen evolution from water splitting. **2018**, 26, 688-695	10

661	Construction of Z-Scheme g-C3N4/CNT/BiFeO3 Composites with Improved Simulated-Sunlight Photocatalytic Activity for the Dye Degradation. **2018**, 9,		59
660	Enhancing the yield of hydrogen peroxide and phenol degradation via a synergistic effect of photoelectrocatalysis using a g-C3N4/ACF electrode. **2018**, 43, 19500-19509		22
659	In situ synthesis of CsTi2NbO7@g-C3N4 core–shell heterojunction with excellent electrocatalytic performance for the detection of nitrite. **2018**, 33, 3936-3945		3
658	Site-selected N vacancy of g-C3N4 for photocatalysis and physical mechanism. **2018**, 13, 329-338		36
657	Carbon nitrides and metal nanoparticles: from controlled synthesis to design principles for improved photocatalysis. **2018**, 47, 7783-7817		167
656	Heterogeneous Organocatalysis for Photoredox Chemistry. **2018**, 8, 9790-9808		112
655	A facile method for scalable synthesis of ultrathin g-C3N4 nanosheets for efficient hydrogen production. *Journal of Materials Chemistry A*, **2018**, 6, 18252-18257	13	29
654	Effect of boron and phosphorus codoping on the electronic and optical properties of graphitic carbon nitride monolayers: First-principle simulations. **2018**, 97,		27
653	Reconstructing Supramolecular Aggregates to Nitrogen-Deficient g-CN Bunchy Tubes with Enhanced Photocatalysis for H Production. **2018**, 10, 18746-18753		69
652	Construction of g-CN and FeWO Z-scheme photocatalyst: effect of contact ways on the photocatalytic performance.. **2018**, 8, 18419-18426		19
651	Design of Palladium-Doped g-C3N4 for Enhanced Photocatalytic Activity toward Hydrogen Evolution Reaction. **2018**, 1, 2866-2873		48
650	Sunlight-driven water-splitting using two-dimensional carbon based semiconductors. *Journal of Materials Chemistry A*, **2018**, 6, 12876-12931	13	159
649	One-Step Nickel Foam Assisted Synthesis of Holey G-Carbon Nitride Nanosheets for Efficient Visible-Light Photocatalytic H Evolution. **2018**, 10, 20521-20529		65
648	Graphite-like carbon nitride (C3N4) modified N-doped LaTiO3 nanocomposite for higher visible light photocatalytic and photo-electrochemical performance. **2018**, 452, 400-412		27
647	Photocatalytic reductive dechlorination of 2-chlorodibenzo-p-dioxin by Pd modified g-CN photocatalysts under UV-vis irradiation: Efficacy, kinetics and mechanism. **2018**, 355, 74-81		37
646	Coaddition of Phosphorus and Proton to Graphitic Carbon Nitride for Synergistically Enhanced Visible Light Photocatalytic Degradation and Hydrogen Evolution. **2018**, 6, 8167-8177		24
645	Constructing ultrathin g-C3N4 nanosheets with hierarchical pores by NaClO induced wet etching for efficient photocatalytic Cr(VI) detoxification under visible light irradiation. **2018**, 88, 51-59		15
644	Acid-treated g-C3N4-Cu2O composite catalyst with enhanced photocatalytic activity under visible-light irradiation. **2018**, 32, e4448		13

643	Three-dimensional flower-like phosphorus-doped g-C3N4 with a high surface area for visible-light photocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2018**, 6, 16485-16494	13	96
642	Chemical vs thermal exfoliation of g-C3N4 for NOx removal under visible light irradiation. **2018**, 239, 16-26		102
641	Enhanced Photocatalytic Degradation Activity of BiFeO3 Microspheres by Decoration with g-C3N4 Nanoparticles. **2018**, 21,		16
640	Unique physicochemical properties of two-dimensional light absorbers facilitating photocatalysis. **2018**, 47, 6410-6444		126
639	Immobilization of g-CN nanosheets on diatomite electrostatic adsorption and their photocatalytic activity.. **2018**, 8, 28032-28040		13
638	Polar Ultrathin Self-Doping Carbon Nitride Nanosheets with Intrinsic Polysulfide Adsorption for High Performance Lithium-Sulfur Batteries. **2018**, 1, 192-201		19
637	Graphitic carbon nitride modified graphene/NiAl layered double hydroxide and 3D functionalized graphene for solid-state asymmetric supercapacitors. **2018**, 353, 824-838		38
636	Facile preparation with high yield of a 3D porous graphitic carbon nitride for dramatically enhanced photocatalytic H2 evolution under visible light. **2018**, 238, 294-301		30
635	Graphitic Carbon Nitride Functionalized with Polyethylenimine for Highly Effective Capture of Carbon Dioxide. **2018**, 57, 11031-11038		16
634	Covalent Functionalization of Carbon Nitride Frameworks through Cross-Coupling Reactions. **2018**, 24, 14921-14927		33
633	Scalable one-pot synthesis of porous 0D/2D C3N4 nanocomposites for efficient visible-light driven photocatalytic hydrogen evolution. **2018**, 459, 224-232		22
632	Two-dimensional polymeric carbon nitride: structural engineering for optimizing photocatalysis. **2018**, 61, 1205-1213		36
631	g-C3N4-Based Nanomaterials for Visible Light-Driven Photocatalysis. **2018**, 8, 74		141
630	Label-Free Simultaneous Analysis of Fe(III) and Ascorbic Acid Using Fluorescence Switching of Ultrathin Graphitic Carbon Nitride Nanosheets. **2018**, 10, 26118-26127		59
629	Controllable synthesis of graphitic carbon nitride nanomaterials for solar energy conversion and environmental remediation: the road travelled and the way forward. **2018**, 8, 4576-4599		72
628	Defects rich g-C3N4 with mesoporous structure for efficient photocatalytic H2 production under visible light irradiation. **2018**, 238, 638-646		112
627	Adsorption of Lead on Sulfur-Doped Graphitic Carbon Nitride Nanosheets: Experimental and Theoretical Calculation Study. **2018**, 6, 10606-10615		56
626	Graphitic carbon nitride nanosheets anchored with BiOBr and carbon dots: Exceptional visible-light-driven photocatalytic performances for oxidation and reduction reactions. **2018**, 530, 642-657		56

625	Carbon nitride photocatalysts. **2018**, 103-126	0
624	Review on fabrication of graphitic carbon nitride based efficient nanocomposites for photodegradation of aqueous phase organic pollutants. **2018**, 67, 28-51	204
623	Synthesis of High-Quality Wurtzite Cu2ZnSn(S1−x,Sex)4 Nanocrystals With Non-Toxic Selenium Precursor and the Photoelectrochemical Performance of ZnO NAs/CZTSSe Heterojunction. **2018**, 2, 1800015	13
622	Photocatalytic Hydrogen Evolution Under Visible Light Illumination in Systems Based on Graphitic Carbon Nitride. **2018**, 54, 1-35	13
621	Self-powered photoelectrochemical aptasensor based on phosphorus doped porous ultrathin g-CN nanosheets enhanced by surface plasmon resonance effect. **2018**, 121, 19-26	83
620	Understanding the roles of plasmonic Au nanocrystal size, shape, aspect ratio and loading amount in Au/g-CN hybrid nanostructures for photocatalytic hydrogen generation. **2018**, 20, 22296-22307	41
619	Filling foaming agent into stacked layers: Rapid synthesis of graphitic carbon nitride nanosheets decorated with ultrafined MXY (X = O, S) nanoparticles for enhanced photoresponsive abilities. **2018**, 826, 52-59	3
618	Synthesis and characterization of Ag embedded graphitic carbon nitride. **2018**,	3
617	Electronic and Optical Properties of 2D Materials Constructed from Light Atoms. **2018**, 30, e1801600	24
616	Carbothermal activation synthesis of 3D porous g-C3N4/carbon nanosheets composite with superior performance for CO2 photoreduction. **2018**, 239, 196-203	92
615	In situ construction of layered K3Ti5NbO14/g-C3N4 composite for improving visible-light-driven photocatalytic performance. **2018**, 29, 15859-15868	11
614	RuC@g-C3N4(H+)/TiO2 visible active photocatalyst: Facile fabrication and Z-scheme carrier transfer mechanism. **2018**, 458, 33-42	7
613	Graphene quantum dots-assisted exfoliation of graphitic carbon nitride to prepare metal-free zero-dimensional/two-dimensional composite photocatalysts. **2018**, 53, 12103-12114	32
612	Halogen-hydrogen bonds: A general synthetic approach for highly photoactive carbon nitride with tunable properties. **2018**, 237, 681-688	37
611	Fabrication of mediator-free g-C3N4/Bi2WO6 Z-scheme with enhanced photocatalytic reduction dechlorination performance of 2,4-DCP. **2018**, 455, 1010-1018	56
610	Self-assembly of tungstophosphoric acid/acidified carbon nitride hybrids with enhanced visible-light-driven photocatalytic activity for the degradation of imidacloprid and acetamiprid. **2018**, 456, 259-269	23
609	Photoresponsive polymeric carbon nitride-based materials: Design and application. **2019**, 23, 72-86	58
608	Photocatalytic activity of the (NH4)2V6O16/g-C3N4 composite catalysts for water splitting applications. **2019**, 325, 41-46	4

607	One-pot synthesis of potassium and phosphorus-doped carbon nitride catalyst derived from urea for highly efficient visible light-driven hydrogen peroxide production. **2019**, 330, 171-178	20
606	Enhanced visible-light-induced photocatalytic degradation and disinfection activities of oxidized porous g-C3N4 by loading Ag nanoparticles. **2019**, 332, 227-235	57
605	High-flux nanofiltration membranes tailored by bio-inspired co-deposition of hydrophilic g-C3N4 nanosheets for enhanced selectivity towards organics and salts. **2019**, 6, 2958-2967	39
604	Oxidized graphitic carbon nitride nanosheets as an effective adsorbent for organic dyes and tetracycline for water remediation. **2019**, 809, 151783	30
603	Rational modulation of p-n homojunction in P-doped g-C3N4 decorated with Ti3C2 for photocatalytic overall water splitting. **2019**, 259, 118077	58
602	A Novel Route to Manufacture 2D Layer MoS and g-CN by Atmospheric Plasma with Enhanced Visible-Light-Driven Photocatalysis. **2019**, 9,	13
601	Defect-Rich Graphene Nanomesh Produced by Thermal Exfoliation of Metal-Organic Frameworks for the Oxygen Reduction Reaction. **2019**, 58, 13354-13359	164
600	2D Crystal-Based Fibers: Status and Challenges. **2019**, 15, e1902691	26
599	Defect-Rich Graphene Nanomesh Produced by Thermal Exfoliation of Metal□Organic Frameworks for the Oxygen Reduction Reaction. **2019**, 131, 13488-13493	35
598	Self-assembly method assisted synthesis of g-C3N4/ZnO heterostructure nanocomposites with enhanced photocatalytic performance. **2019**, 96, 109266	18
597	Graphitic carbon nitride nanosheets for solution processed non-volatile memory devices. **2019**, 7, 10203-10210	20
596	Graphitic carbon nitride based Z scheme photocatalysts: Design considerations, synthesis, characterization and applications. **2019**, 79, 383-408	31
595	Graphitic carbon nitride nanostructures: Catalysis. **2019**, 16, 388-424	35
594	Improved photocatalytic activity of WO3/C3N4: By constructing an anchoring morphology with a Z-scheme band structure. **2019**, 95, 105926	11
593	Formation of g-C3N4 Nanotubes towards Superior Photocatalysis Performance. **2019**, 11, 4558-4567	40
592	Enhanced photocatalytic and photoelectrochemical performance of g-C3N4/BiVO4 heterojunction: A combined experimental and theoretical study. **2019**, 9, 055225	9
591	Enhanced photoelectric conversion efficiency: A novel h-BN based self-powered photoelectrochemical aptasensor for ultrasensitive detection of diazinon. **2019**, 142, 111546	23
590	Endowing g-C N Membranes with Superior Permeability and Stability by Using Acid Spacers. **2019**, 58, 16463-16468	48

589	One-Pot Exfoliation of Graphitic C N Quantum Dots for Blue QLEDs by Methylamine Intercalation. **2019**, 15, e1902735	11
588	Green exfoliation of graphitic carbon nitride towards decolourization of Congo-Red under solar irradiation. **2019**, 7, 103456	24
587	Ultrathin Graphitic Carbon Nitride Nanosheets as Efficient Catalysts for Degradation of Pollutants under Visible Light. **2019**, 4, 11815-11821	3
586	Endowing g-C3N4 Membranes with Superior Permeability and Stability by Using Acid Spacers. **2019**, 131, 16615-16620	7
585	Carbon Nitride Co-catalyst Activation Using N-Doped Carbon with Enhanced Photocatalytic H Evolution. **2019**, 35, 12366-12373	13
584	Construction of CoP/B doped g-C3N4 nanodots/g-C3N4 nanosheets ternary catalysts for enhanced photocatalytic hydrogen production performance. **2019**, 496, 143738	25
583	Structure Tuning of Polymeric Carbon Nitride for Solar Energy Conversion: From Nano to Molecular Scale. **2019**, 5, 2775-2813	54
582	Vertical 1T/2H-WS nanoflakes grown on 2D-CN: Multiple charge transfer channels designed for enhanced photocatalytic activity. **2019**, 556, 224-231	19
581	A gas bubble exfoliation method to prepare g-C3N4 nanosheets with enhanced photocatalytic activities. **2019**, 372, 147-155	13
580	Selective Photocatalytic Oxidation of Low Concentration Methane over Graphitic Carbon Nitride-Decorated Tungsten Bronze Cesium. **2019**, 7, 4382-4389	28
579	Advances in constructing polymeric carbon-nitride-based nanocomposites and their applications in energy chemistry. **2019**, 3, 611-655	43
578	Ni nanoparticles supported on graphitic carbon nitride as visible light catalysts for hydrolytic dehydrogenation of ammonia borane. **2019**, 11, 3506-3513	46
577	Two-dimensional materials in semiconductor photoelectrocatalytic systems for water splitting. **2019**, 12, 59-95	244
576	Recent development in graphitic carbon nitride based photocatalysis for hydrogen generation. **2019**, 257, 117855	144
575	Effect of mechanochemical preparation of 2D g-C3N4 on electronic properties and efficiency of photocatalytic hydrogen evolution. **2019**, 44, 17922-17929	7
574	Molten salts synthesis and visible light photocatalytic activity of crystalline poly(triazine imide) with different morphologies. **2019**, 30, 11706-11713	9
573	SBA-15 assisted preparation of mesoporous g-C3N4 for photocatalytic H2 production and Au3+ fluorescence sensing. **2019**, 488, 205-212	33
572	Enhanced photocatalytic performance of boron and phosphorous co-doped graphitic carbon nitride nanosheets for removal of organic pollutants. **2019**, 226, 128-137	61

571	Organic motif's functionalization via covalent linkage in carbon nitride: An exemplification in photocatalysis. **2019**, 152, 40-58		38
570	Impregnation of semiconductor CdS NPs in MOFs cavities via double solvent method for effective photocatalytic CO2 conversion. **2019**, 375, 21-31		30
569	Hot-Tailoring of Carbon Nitride Dots with Redshifted Photoluminescence for Visual Double Text Encryption and Bioimaging. **2019**, 25, 10188-10196		23
568	Enhanced antipressure ability through graphene oxide membrane by intercalating g-C3N4 nanosheets for water purification. **2019**, 65, e16699		26
567	A metal-free protonated g-C3N4 as an effective sodium percarbonate activator at ambient pH conditions: Efficiency, stability and mechanism. **2019**, 231, 225-232		5
566	Targeted Exfoliation and Reassembly of Polymeric Carbon Nitride for Efficient Photocatalysis. **2019**, 29, 1901024		31
565	G-C3N4 Nanosheets Coupled with TiO2 Nanosheets as 2D/2D Heterojunction Photocatalysts Toward High Photocatalytic Activity for Hydrogen Production. **2019**, 149, 2930-2939		18
564	Revealing active-site structure of porous nitrogen-defected carbon nitride for highly effective photocatalytic hydrogen evolution. **2019**, 373, 687-699		43
563	An overview on nitride and nitrogen-doped photocatalysts for energy and environmental applications. **2019**, 172, 704-723		41
562	One-pot synthesis of the visible light sensitive C-doped ZnO@g-C3N4 for high photocatalytic activity through Z-scheme mechanism. **2019**, 186, 34-40		11
561	Enhanced up-conversion luminescence and optical temperature sensing in graphitic C3N4 quantum dots grafted with BaWO4:Yb3+,Er3+ phosphors. **2019**, 7, 6112-6119		51
560	Influence of the gas atmosphere during the synthesis of g-C3N4 for enhanced photocatalytic H2 production from water on Au/g-C3N4 composites. *Journal of Materials Chemistry A*, **2019**, 7, 14849-14863	13	48
559	Dimensional transformation and morphological control of graphitic carbon nitride from water-based supramolecular assembly for photocatalytic hydrogen evolution: from 3D to 2D and 1D nanostructures. **2019**, 254, 321-328		76
558	Z-scheme inverse opal CN/BiOBr photocatalysts for highly efficient degradation of antibiotics. **2019**, 21, 12818-12825		40
557	Amphiphilic two-dimensional graphitic carbon nitride nanosheets for visible-light-driven phase-boundary photocatalysis. *Journal of Materials Chemistry A*, **2019**, 7, 13071-13079	13	85
556	Graphitic carbon nitride (g□3N4)□based metal-free photocatalysts for water splitting: A review. **2019**, 149, 693-721		412
555	Graphene and graphene like 2D graphitic carbon nitride: Electrochemical detection of food colorants and toxic substances in environment. **2019**, 23, e00064		43
554	Semiconductor polymeric graphitic carbon nitride photocatalysts: the □holy grail□for the photocatalytic hydrogen evolution reaction under visible light. **2019**, 12, 2080-2147		470

553	1,3,5-Benzenetriyl substituted g-C3N4 for enhanced visible light photocatalytic activity. **2019**, 45, 3641-3654		6
552	Few layer g-C3N4 decorated flower-like ZnO for visible light photocatalytic reduction of Cr(VI). **2019**, 30, 8577-8584		7
551	Nanophotocatalysis and Environmental Applications. **2019**,		4
550	Enhancement of photocatalytic activity of g-CN by hydrochloric acid treatment of melamine. **2019**, 30, 315601		20
549	Insights into the rapid elimination of antibiotics from aqueous media by tunable CN photocatalysts: Effects of dopant amount, co-existing ions and reactive oxygen species. **2019**, 669, 1053-1061		17
548	Efficient evolution of reactive oxygen species over the coordinated □delocalization g-C3N4 with favorable charge transfer for sustainable pollutant elimination. **2019**, 249, 282-291		37
547	Interfacial engineering of graphitic carbon nitride (g-C3N4)-based metal sulfide heterojunction photocatalysts for energy conversion: A review. **2019**, 40, 289-319		309
546	Solar-light-driven photocatalytic production of peroxydisulfate over noble-metal loaded WO. **2019**, 55, 3813-3816		17
545	Effective hydrogenation of g-C3N4 for enhanced photocatalytic performance revealed by molecular structure dynamics. **2019**, 250, 63-70		32
544	Carbon Nitride: A Wonder Photocatalyst. **2019**, 167-209		1
543	Direct Z-Scheme charge transfer in heterostructured MoO/g-CN photocatalysts and the generation of active radicals in photocatalytic dye degradations. **2019**, 250, 338-345		44
542	The doping of phosphorus atoms into graphitic carbon nitride for highly enhanced photocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2019**, 7, 11506-11512	13	40
541	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. *Journal of Materials Chemistry A*, **2019**, 7, 11584-11612	13	109
540	N,N-Dimethylformamide assisted hydrothermal introduction of MoS2 on ultrathin g-C3N4 layers with enhanced visible light photocatalytic hydrogen evolution activity. **2019**, 3, 1461-1467		17
539	Preparation of highly dispersed WO3/few layer g-C3N4 and its enhancement of catalytic oxidative desulfurization activity. **2019**, 572, 250-258		34
538	Elemental Mercury Removal by MnO2 Nanoparticle-Decorated Carbon Nitride Nanosheet. **2019**, 33, 3089-3097		37
537	Efficient visible light driven degradation of sulfamethazine and tetracycline by salicylic acid modified polymeric carbon nitride via charge transfer. **2019**, 370, 1077-1086		104
536	Fabrication of heterostructured vanadium modified g-C3N4/TiO2 hybrid photocatalyst for improved photocatalytic performance under visible light exposure and antibacterial activities. **2019**, 76, 318-332		48

535	A direct one-step synthesis of ultrathin g-C3N4 nanosheets from thiourea for boosting solar photocatalytic H2 evolution. **2019**, 44, 7194-7204	95
534	Heterojunction Tuning and Catalytic Efficiency of g-C3N4Cu2O with Glutamate. **2019**, 58, 4000-4009	13
533	Convenient and Recyclable TiO2/g-C3N4 Photocatalytic Coating: Layer-by-Layer Self-assembly Construction on Cotton Fabrics Leading to Improved Catalytic Activity under Visible Light. **2019**, 58, 3978-3987	23
532	Graphene oxide and graphitic carbon nitride nanocomposites assembled by electrostatic attraction forces: Synthesis and characterization. **2019**, 228, 228-236	11
531	Enhancing the yield of H2O2 from oxygen reduction reaction performance by hierarchically porous carbon modified active carbon fiber as an effective cathode used in electro-Fenton. **2019**, 838, 57-65	24
530	Nitrogen Vacancies-Assisted Enhanced Plasmonic Photoactivities of Au/g-C3N4 Crumpled Nanolayers: A Novel Pathway toward Efficient Solar Light-Driven Photocatalysts. **2019**, 58, 3698-3706	18
529	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. **2019**, 131, 17674-17689	32
528	2D Nanosheets and Their Composite Membranes for Water, Gas, and Ion Separation. **2019**, 58, 17512-17527	111
527	Oxidation and removal of thallium and organics from wastewater using a zero-valent-iron-based Fenton-like technique. **2019**, 221, 89-97	32
526	Graphitic carbon nitride based ternary nanocomposites: From synthesis to their applications in photocatalysis: A recent review. **2019**, 281, 634-654	54
525	Fabrication of multiporphyrin@g-C3N4 nanocomposites via Pd(II)-directed layer-by-layer assembly for enhanced visible-light photocatalytic activity. **2019**, 478, 1027-1036	12
524	CN: A Low Bandgap Semiconductor Containing an Azo-Linked Carbon Nitride Framework for Photocatalytic, Photovoltaic and Adsorbent Applications. **2019**, 141, 5415-5436	208
523	Bottom-up fabrication of graphitic carbon nitride nanosheets modified with porphyrin via covalent bonding for photocatalytic H2 evolution. **2019**, 12, 3109-3115	32
522	Sb-doped polymeric carbon nitride with charge-capture centers for efficient charge separation and photocatalytic performance in H2 evolution and environmental remediation. **2019**, 9, 6627-6637	5
521	Facile synthesis of tin-doped polymeric carbon nitride with a hole-trapping center for efficient charge separation and photocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2019**, 7, 25824-25829	12 19
520	Scalable nanohybrids of graphitic carbon nitride and layered NiCo hydroxide for high supercapacitive performance.. **2019**, 9, 33643-33652	11
519	One-step, high-yield synthesis of g-CN nanosheets for enhanced visible light photocatalytic activity.. **2019**, 9, 39304-39314	7
518	g-CN nanosheet-based ratiometric fluorescent probes for the amplification and imaging of miRNA in living cells. **2019**, 7, 7566-7573	23

517	Noble metal-free NiS with rich active sites loaded g-CN for highly efficient photocatalytic H evolution under visible light irradiation. **2019**, 534, 343-349	38
516	Unprecedented effect of CO2 calcination atmosphere on photocatalytic H2 production activity from water using g-C3N4 synthesized from triazole polymerization. **2019**, 241, 141-148	41
515	Vopor-polymerization strategy to carbon-rich holey few-layer carbon nitride nanosheets with large domain size for superior photocatalytic hydrogen evolution. **2019**, 464, 195-204	15
514	The evaluation of super-capacitive performance of novel g-C3N4/PPy nanocomposite electrode material with sandwich-like structure. **2019**, 162, 369-377	38
513	Boron nitride quantum dots decorated ultrathin porous g-C3N4: Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation. **2019**, 245, 87-99	378
512	Pd nanocones supported on g-C3N4: An efficient photocatalyst for boosting catalytic reduction of hexavalent chromium under visible-light irradiation. **2019**, 471, 935-942	35
511	Facile synthesis of exfoliated graphitic carbon nitride for photocatalytic degradation of ciprofloxacin under solar irradiation. **2019**, 54, 5726-5742	57
510	Explosive thermal exfoliation of intercalated graphitic carbon nitride for enhanced photocatalytic degradation properties. **2019**, 45, 3643-3647	11
509	Ultrafine 1D graphene interlayer in g-C3N4/graphene/recycled carbon fiber heterostructure for enhanced photocatalytic hydrogen generation. **2019**, 359, 1352-1359	32
508	Graphitic carbon nitride (g-CN) nanosheets functionalized composite membrane with self-cleaning and antibacterial performance. **2019**, 365, 606-614	112
507	Concerted catalytic and photocatalytic degradation of organic pollutants over CuS/g-CN catalysts under light and dark conditions. **2019**, 16, 135-143	25
506	Liquid exfoliation of g-C3N4 nanosheets to construct 2D-2D MoS2/g-C3N4 photocatalyst for enhanced photocatalytic H2 production activity. **2019**, 246, 120-128	351
505	Strengthened spatial charge separation over Z-scheme heterojunction photocatalyst for efficient photocatalytic H2 evolution. **2019**, 475, 453-461	13
504	One-step synthesis of g-C3N4 nanosheets to improve tribological properties of phenolic coating. **2019**, 132, 221-227	22
503	Rationally designed hybrids of NiCo2O4 and polymeric carbon nitride as faradaic electrodes with enhanced electrochemical performance. **2019**, 299, 717-726	15
502	Graphene□arbon Nitride-Based Electrochemical Sensors for Biomolecules. **2019**, 207-233	
501	A novel approach of fluorescent porous graphite carbon nitride based silica gel powder for latent fingerprint detection. **2019**, 9, 255-277	8
500	Ammonium cyamelurates: synthesis and crystalline structures. **2019**, 30, 425-434	7

499	Nitrogen self-doped g-CN nanosheets with tunable band structures for enhanced photocatalytic tetracycline degradation. **2019**, 536, 17-29	123
498	Binary composites WO3/g-C3N4 in porous morphology: Facile construction, characterization, and reinforced visible light photocatalytic activity. **2019**, 563, 11-21	22
497	Rationally Designed Copper-Modified Polymeric Carbon Nitride as a Photocathode for Solar Water Splitting. **2019**, 12, 866-872	15
496	Synthesis of g-C3N4-based photocatalysts with recyclable feature for efficient 2,4-dichlorophenol degradation and mechanisms. **2019**, 243, 57-65	69
495	Titanium dioxide/carbon nitride nanosheet nanocomposites for gas phase CO2 photoreduction under UV-visible irradiation. **2019**, 242, 369-378	86
494	Shape-controlled synthesis of well-dispersed platinum nanocubes supported on graphitic carbon nitride as advanced visible-light-driven catalyst for efficient photoreduction of hexavalent chromium. **2019**, 535, 41-49	33
493	Electroless plating Ni-P cocatalyst decorated g-C3N4 with enhanced photocatalytic water splitting for H2 generation. **2019**, 466, 847-853	113
492	Sulfur- and chlorine-co-doped g-C3N4 nanosheets with enhanced active species generation for boosting visible-light photodegradation activity. **2020**, 233, 115997	62
491	Low boiling point solvent mediated strategy to synthesize functionalized monolayer carbon nitride for superior photocatalytic hydrogen evolution. **2020**, 260, 118181	82
490	Defective engineering in graphitic carbon nitride nanosheet for efficient photocatalytic pathogenic bacteria disinfection. **2020**, 261, 118201	79
489	Static and continuous flow photoelectrocatalytic treatment of antibiotic wastewater over mesh of TiO nanotubes implanted with g-CN nanosheets. **2020**, 384, 121248	42
488	Facile construction of novel BiOBr/BiOCl heterojunction composites with enhanced photocatalytic performance. **2020**, 560, 21-33	32
487	Nanostructured Carbon Nitrides for CO Capture and Conversion. **2020**, 32, e1904635	104
486	Heterojunctions of halogen-doped carbon nitride nanosheets and BiOI for sunlight-driven water-splitting. **2019**, 31, 084001	14
485	Functional groups to modify g-C3N4 for improved photocatalytic activity of hydrogen evolution from water splitting. **2020**, 31, 1648-1653	59
484	Rational construction of direct Z-scheme SnS/g-C3N4 hybrid photocatalyst for significant enhancement of visible-light photocatalytic activity. **2020**, 499, 143941	32
483	Facile one-step polymerization-exfoliation route to crystalline graphitic carbon nitride nanosheets for increased photocatalytic hydrogen evolution. **2020**, 501, 144259	7
482	Double-side solar hydrogen evolution nanopaper. **2020**, 260, 118083	15

481	Preparation characterization and non-isothermal decomposition kinetics of different carbon nitride sheets. **2020**, 29, 21-29	11
480	Mesoporous SiO2-derived g-C3N4@CdS core-shell heteronanostructure for efficient and stable photocatalytic H2 production. **2020**, 46, 2384-2391	9
479	H2O2-free photo-Fenton degradation of organic pollutants on thermally exfoliated g-C3N4. **2020**, 586, 124190	26
478	Two-dimensional graphene/g-C3N4 in-plane hybrid heterostructure for enhanced photocatalytic activity with surface-adsorbed pollutants assistant. **2020**, 268, 118397	45
477	Highly flexible and stable carbon nitride/cellulose acetate porous films with enhanced photocatalytic activity for contaminants removal from wastewater. **2020**, 384, 121417	26
476	Metal-Free Enhanced Photocatalytic Activation of Dioxygen by g-C3N4 Doped with Abundant Oxygen-Containing Functional Groups for Selective N-Deethylation of Rhodamine B. **2020**, 10, 6	7
475	Facile synthesis of highly fluorescent free-standing films comprising graphitic carbon nitride (g-C3N4) nanolayers. **2020**, 44, 2644-2651	17
474	Band structure engineering of polymeric carbon nitride with oxygen/carbon codoping for efficient charge separation and photocatalytic performance. **2020**, 564, 333-343	17
473	Effect of Dual-Cocatalyst Surface Modification on Photodegradation Activity, Pathway, and Mechanisms with Highly Efficient Ag/BaTiO/MnO. **2020**, 36, 498-509	25
472	Top-down synthesis of polyoxometalate-like sub-nanometer molybdenum-oxo clusters as high-performance electrocatalysts. **2019**, 11, 1043-1051	13
471	The enhanced photodegradation of bisphenol A by TiO/CN composites. **2020**, 182, 109090	23
470	Construction of DyVO4/nitrogen deficient g-C3N4 composite for enhanced visible-light photocatalytic activity for tetracycline degradation. **2020**, 124, 110766	21
469	In situ decorated Ni2P nanocrystal co-catalysts on g-C3N4 for efficient and stable photocatalytic hydrogen evolution via a facile co-heating method. *Journal of Materials Chemistry A*, **2020**, 8, 2995-3004 [13]	41
468	Enhanced photocatalytic removal of amoxicillin with Ag/TiO/mesoporous g-CN under visible light: property and mechanistic studies. **2020**, 27, 7025-7039	19
467	Enhanced visible-light photocatalytic degradation and disinfection performance of oxidized nanoporous g-C3N4 via decoration with graphene oxide quantum dots. **2020**, 41, 474-484	19
466	Tuning layered Fe-doped g-C3N4 structure through pyrolysis for enhanced Fenton and photo-Fenton activities. **2020**, 159, 461-470	58
465	Band-gap engineering of layered covalent organic frameworks via controllable exfoliation for enhanced visible-light-driven hydrogen evolution. **2020**, 45, 2689-2698	18
464	Template-free synthesis of tetragonal graphitic carbon nitride microtubes doped by sodium chloride for enhanced photocatalytic H2 performance under visible light irradiation. **2020**, 391, 112337	8

463	A review on low dimensional carbon desalination and gas separation membrane designs. **2020**, 598, 117785	38
462	All-organic fluorine-free superhydrophobic bulk material with mechanochemical robustness and photocatalytic functionality. **2020**, 385, 123969	20
461	Photocatalytic H2 generation via CoP quantum-dot-modified g-C3N4 synthesized by electroless plating. **2020**, 41, 114-121	84
460	Perspective and status of polymeric graphitic carbon nitride based Z-scheme photocatalytic systems for sustainable photocatalytic water purification. **2020**, 391, 123496	182
459	Novel carbon-based sorbents for elemental mercury removal from gas streams: A review. **2020**, 391, 123514	56
458	OH/Na co-functionalized carbon nitride: directional charge transfer and enhanced photocatalytic oxidation ability. **2020**, 10, 529-535	6
457	Direct Z-Scheme WO3/Graphitic Carbon Nitride Nanocomposites for the Photoreduction of CO2. **2020**, 3, 1298-1306	63
456	Three-in-One: Opened Charge-transfer channel, positively shifted oxidation potential, and enhanced visible light response of g-C3N4 photocatalyst through K and S Co-doping. **2020**, 45, 4534-4544	31
455	Porous-CdS/Cu2O/graphitic-C3N4 dual p-n junctions as highly efficient photo/catalysts for degrading ciprofloxacin and generating hydrogen using solar energy. **2020**, 385, 123710	49
454	Synthesis of tubular g-C3N4 via a H2SO4-assisted precursor self-assembly strategy for enhanced photocatalytic degradation of organic pollutant. **2020**, 31, 2022-2029	3
453	Fabrication and Photodegradation Application of Isopropanol-Functionalized Poly (Triazine Imide). **2020**, 49, 1518-1526	2
452	Graphitic carbon nitride with different dimensionalities for energy and environmental applications. **2020**, 13, 18-37	102
451	A separation-free and pizza-structure PAM/GCN/PAA composite hydrogel (PCH) in wastewater treatment at visible light or solar light. **2020**, 705, 135821	5
450	High yield post-thermal treatment of bulk graphitic carbon nitride with tunable band structure for enhanced deNO photocatalysis. **2020**, 31, 114001	3
449	Solid-state synthesis and fluorescence properties of micron Bi2MoO6:Eu3+/C3N4 composite phosphors. **2020**, 384, 126149	6
448	g-CN/Pt/BiVO nanocomposites for highly efficient visible-light photocatalytic removal of contaminants and hydrogen generation. **2020**, 31, 125706	15
447	Role of defects in carbon materials during metal-free formic acid dehydrogenation. **2020**, 12, 22768-22777	5
446	Polymer Nanocomposite-based Coatings for Corrosion Protection. **2020**, 15, 3915-3941	17

445	Synthesis of Fe2O3/g-C3N4 photocatalyst for high-efficiency water splitting under full light. **2020**, 196, 109191	14
444	Graphitic carbon nitride-based catalysts and their applications: A review. **2020**, 24, 100577	31
443	Biomimetic two-dimensional nanozymes: synthesis, hybridization, functional tailoring, and biosensor applications. **2020**, 8, 10065-10086	27
442	Surface properties tuning of exfoliated graphitic carbon nitride for multiple photocatalytic performance. **2020**, 207, 528-538	6
441	Fabrication of various morphological forms of a g-C3N4-supported MoO3 catalyst for the oxidative desulfurization of dibenzothiophene. **2020**, 44, 18745-18755	14
440	Photocatalytic Properties of g-C3N4 Supported on the SrAl2O4:Eu,Dy/SiO2. **2020**, 10, 917	1
439	Emerging Chemical Functionalization of g-CN: Covalent/Noncovalent Modifications and Applications. **2020**, 14, 12390-12469	88
438	Photobase effect for just-in-time delivery in photocatalytic hydrogen generation. **2020**, 11, 5179	5
437	Graphene/graphitic carbon nitride-based ternary nanohybrids: Synthesis methods, properties, and applications for photocatalytic hydrogen production. **2020**, 24, 100200	38
436	Application of synthesized porous graphitic carbon nitride and it's composite as excellent electrocatalysts in microbial fuel cell. **2020**, 45, 31056-31069	11
435	Structural and optical properties of exfoliated graphene-like carbon nitride into nanosheets and quantum dots. **2020**, 169, 110646	5
434	Visible-light-induced controlled ATRP by modified N-rich holey carbon nitride nanosheets in natural solvent. **2020**, 318, 114320	0
433	Graphitic carbon nitrides: Efficient heterogeneous catalysts for biodiesel production. **2020**, 78, 105306	13
432	Gaseous mercury removal by graphene-like carbon nitride impregnated with ammonium bromide. **2020**, 280, 118635	24
431	Oxidized graphitic carbon nitride as a sustainable metal-free catalyst for hydrogen transfer reactions under mild conditions. **2020**, 22, 5084-5095	30
430	Soft and hard templates assisted synthesis mesoporous CuO/g-CN heterostructures for highly enhanced and accelerated Hg(II) photoreduction under visible light. **2020**, 580, 223-233	50
429	Gram-Scale Synthesis of High-Loading Single-Atomic-Site Fe Catalysts for Effective Epoxidation of Styrene. **2020**, 32, e2000896	78
428	Few-Layer In2S3 in Laponite Interlayers: A Colloidal Route Toward Heterostructured Nanohybrids with Enhanced Photocatalysis. **2020**, 32, 10015-10024	8

427	Synthesis of Zn doped g-C3N4 in KCl-ZnCl2 molten salts: The temperature window for promoting the photocatalytic activity. **2020**, 533, 147429		10
426	Structure couture and appraisal of catalytic activity of carbon nitride (g-C3N4) based materials towards sustainability. **2020**, 3, 100039		12
425	Visible light-driven oxidant-free dehydrogenation of alcohols in water using porous ultrathin g-C3N4 nanosheets. **2020**,		6
424	Nitrogen deficient carbon nitride for efficient visible light driven tetracycline degradation: a combination of experimental and DFT studies. **2020**, 10, 6800-6808		4
423	Low-dimensional protonated carbon nitride incorporated sulfonated poly (ether ether ketone) for PEMFC applications. **2020**, 26, 5629-5639		3
422	Surface engineered 2D materials for photocatalysis. **2020**, 56, 11000-11013		32
421	Solid phase microextraction of polycyclic aromatic hydrocarbons from water samples by a fiber coated with covalent organic framework modified graphitic carbon nitride. **2020**, 1628, 461428		18
420	Current trends in strategies to improve photocatalytic performance of perovskites materials for solar to hydrogen production. **2020**, 132, 110073		25
419	Graphitic carbon nitride-based 2D catalysts for green energy: Physical mechanism and applications. **2020**, 17, 100488		10
418	Ab initio quantum dynamics of charge carriers in graphitic carbon nitride nanosheets. **2020**, 153, 054701		13
417	Construction of a Facile Recyclable Graphene-Like C3N4 Cilia Array for Effective Visible-Light-Responsive Photocatalytic Hydrogen Production. **2020**, 34, 10290-10298		6
416	Template-free fabrication of hierarchical graphitic carbon nitride via self-assembled aggregates for enhanced photocatalytic hydrogen evolution activity under visible light. **2020**, 10, 6350-6358		3
415	2D g-C3N4 for advancement of photo-generated carrier dynamics: Status and challenges. **2020**, 41, 270-303		87
414	Palladium nanoparticles supported on nanosheet-like graphitic carbon nitride for catalytic transfer hydrogenation reaction. **2020**, 10, 7883-7893		2
413	Electrogenerated chemiluminescence resonance energy transfer between ZnGaO/g-CN and gold nanoparticles/graphene and its application in the detection of thrombin. **2020**, 145, 7412-7420		5
412	Photo-induced synthesis of nanostructured Pt-on-Au/g-C3N4 composites for visible light photocatalytic hydrogen production. **2020**, 55, 15574-15587		9
411	Portable Photoelectrochromic Visualization Sensor for Detection of Chemical Oxygen Demand. **2020**, 92, 13604-13609		12
410	Graphitic carbon nitride (g-C3N4)-based membranes for advanced separation. *Journal of Materials Chemistry A*, **2020**, 8, 19133-19155	13	46

409	Single-Atom Pt Stabilized on One-Dimensional Nanostructure Support Carbon Nitride/SnO Heterojunction Trapping. **2020**, 14, 11394-11405		35
408	Photocatalytic Degradation of the Light Sensitive Organic Dyes: Methylene Blue and Rose Bengal by Using Urea Derived g-C3N4/ZnO Nanocomposites. **2020**, 10, 1457		17
407	Synergic contribution of intercalation and electronic modification of g-C3N4 for an efficient visible light-driven catalyst for tetracycline degradation. **2020**, 8, 104445		5
406	Improved photocatalytic activity of carbon-based polymeric semiconductor for efficient decontamination of wastewater: Effect of reaction atmosphere and pyrolysis temperature. **2020**, 110, 110523		1
405	Green synthesis of Ag/TiO composite coated porous vanadophosphates with enhanced visible-light photo-degradation and catalytic reduction performance for removing organic dyes. **2020**, 49, 7920-7931		6
404	In situ synthesis of Cu+ self-doped CuWO4/g-C3N4 heterogeneous Fenton-like catalysts: The key role of Cu+ in enhancing catalytic performance. **2020**, 250, 117174		18
403	Monolayered g-C3N4 nanosheet as an emerging cationic building block for bifunctional 2D superlattice hybrid catalysts with controlled defect structures. **2020**, 277, 119191		31
402	Efficient Solar Light Driven Degradation of Tetracycline by Fe-EDTA Modified g-C3N4 Nanosheets. **2020**, 124, 11831-11843		13
401	CaH2-assisted structural engineering of porous defective graphitic carbon nitride (g-C3N4) for enhanced photocatalytic hydrogen evolution. **2020**, 45, 18937-18945		4
400	Design and application of active sites in g-C3N4-based photocatalysts. **2020**, 56, 69-88		108
399	Polymeric carbon nitrides and related metal-free materials for energy and environmental applications. *Journal of Materials Chemistry A*, **2020**, 8, 11075-11116	13	82
398	Nitrogen-deficient g-CN/POMs porous nanosheets with P-N heterojunctions capable of the efficient photocatalytic degradation of ciprofloxacin. **2020**, 259, 127465		15
397	Ionic liquid assisted preparation of phosphorus-doped g-C3N4 photocatalyst for decomposition of emerging water pollutants. **2020**, 253, 123322		13
396	KOH activated ZIF-L derived N-doped porous carbon with enhanced adsorption performance towards antibiotics removal from aqueous solution. **2020**, 289, 121492		16
395	First Principles Calculation for Photocatalytic Activity of GaAs Monolayer. **2020**, 10, 9597		4
394	Elemental Mercury Capture from Simulated Flue Gas by Graphite-Phase Carbon Nitride. **2020**, 34, 6851-6861		27
393	Influence of High Temperature Synthesis on the Structure of Graphitic Carbon Nitride and Its Hydrogen Generation Ability. **2020**, 13,		15
392	. **2020**,		

391	Tuning the nitrogen content of carbon dots in carbon nitride nanoflakes. **2020**, 167, 230-243	8
390	Bi2O2Se as a novel co-catalyst for photocatalytic hydrogen evolution reaction. **2020**, 400, 125931	18
389	Graphitic carbon nitride nanosheets prepared by electrophoretic size fractionation as an anticancer agent against human bone carcinoma. **2020**, 111, 110803	9
388	Thin-Layered Photocatalysts. **2020**, 30, 1910005	58
387	g-C3N4/WTe2 Hybrid Electrocatalyst for Efficient Hydrogen Evolution Reaction. **2020**, 124, 8726-8735	7
386	Synthesis of graphitic carbon nitride Nanostructured photocatalyst. **2020**, 279-304	0
385	High-efficiency photocatalytic water splitting by a N-doped porous g-C3N4 nanosheet polymer photocatalyst derived from urea and N,N-dimethylformamide. **2020**, 7, 1770-1779	68
384	Post-redox engineering electron configurations of atomic thick C3N4 nanosheets for enhanced photocatalytic hydrogen evolution. **2020**, 270, 118855	17
383	Heterostructured graphitic-carbon-nitride-nanosheets/copper(I) oxide composite as an enhanced visible light photocatalyst for decomposition of tetracycline antibiotics. **2020**, 250, 117238	15
382	An efficient visible-light photocatalyst for CO2 reduction fabricated by cobalt porphyrin and graphitic carbon nitride via covalent bonding. **2020**, 13, 2665-2672	28
381	Incorporating nitrogen defects into novel few-layer carbon nitride nanosheets for enhanced photocatalytic H2 production. **2020**, 529, 147104	9
380	Heterojunction C3N4/MoO3 microcomposite for highly efficient photocatalytic oxidation of Rhodamine B. **2020**, 511, 145595	26
379	Carbon dot/carbon nitride composites fluorescent probe for the highly selective detection of Cr(VI) ions. **2020**, 400, 112711	8
378	Photocatalytic activity enhanced via surface hybridization. **2020**, 2, 308-349	25
377	Novel torus shaped g-C3N4 photocatalysts. **2020**, 268, 118733	31
376	Scalable one-pot synthesis of phosphorus-doped g-C3N4 nanosheets for enhanced visible-light photocatalytic hydrogen evolution. **2020**, 104, 107734	15
375	Defect Engineering in Atomic-Layered Graphitic Carbon Nitride for Greatly Extended Visible-Light Photocatalytic Hydrogen Evolution. **2020**, 12, 13805-13812	62
374	General synthesis strategy for hollow porous prismatic graphitic carbon nitride: a high-performance photocatalyst for H2 production and degradation of RhB. **2020**, 55, 6037-6050	8

373	Corrugation Matters: Structure Models of Single Layer Heptazine-Based Graphitic Carbon Nitride from First-Principles Studies. **2020**, 124, 4644-4651		9
372	Highly efficient resonance energy transfer in g-C3N4-Ag nanostructure: Proof-of-concept toward sensitive split-type electrochemiluminescence immunoassay. **2020**, 311, 127926		10
371	The nonmetal modulation of composition and morphology of g-C3N4-based photocatalysts. **2020**, 269, 118828		112
370	Highly efficient visible photocatalytic disinfection and degradation performances of microtubular nanoporous g-C3N4 via hierarchical construction and defects engineering. **2020**, 49, 133-143		36
369	Synthesis of 3D mesoporous g-C3N4 for efficient overall water splitting under a Z-scheme photocatalytic system. **2020**, 512, 145782		23
368	Influences of Calcination Atmosphere on Nickel Catalyst Supported on Mesoporous Graphitic Carbon Nitride Thin Sheets for CO Methanation. **2020**, 12, 7102-7113		14
367	Sugar-assisted mechanochemical exfoliation of graphitic carbon nitride for enhanced visible-light photocatalytic performance. **2020**, 45, 8444-8455		5
366	Polymer Brushes on Graphitic Carbon Nitride for Patterning and as a SERS Active Sensing Layer via Incorporated Nanoparticles. **2020**, 12, 9797-9805		17
365	Chemically modified carbon nitride-chitin-acetic acid hybrid as a metal-free bifunctional nanozyme cascade of glucose oxidase-peroxidase for "click off" colorimetric detection of peroxide and glucose. **2020**, 154, 112072		26
364	Ultrasonic-assisted preparation and characterization of magnetic ZnFeO/g-CN nanomaterial and their applications towards electrocatalytic reduction of 4-nitrophenol. **2020**, 68, 105071		19
363	In-situ generation of g-C3N4 on BiVO4 photoanode for highly efficient photoelectrochemical water oxidation. **2020**, 523, 146441		5
362	Phosphorus-doped polymeric carbon nitride nanosheets for enhanced photocatalytic hydrogen production. **2020**, 8, 041108		26
361	Highly Dispersed Nanocomposite of AgBr in g-CN Matrix Exhibiting Efficient Antibacterial Effect on Drought-Resistant under Dark and Light Conditions. **2020**, 12, 21481-21493		21
360	Maleic hydrazide-based molecule doping in three-dimensional lettuce-like graphite carbon nitride towards highly efficient photocatalytic hydrogen evolution. **2020**, 272, 119009		19
359	Synthesis of metal-free lightweight materials with sequence-encoded properties. *Journal of Materials Chemistry A*, **2020**, 8, 8752-8760	13	5
358	A bottom-up acidification strategy engineered ultrathin g-C3N4 nanosheets towards boosting photocatalytic hydrogen evolution. **2020**, 163, 234-243		48
357	An overview on g-C3N4 as a robust photocatalyst towards the sustainable generation of H2 energy. **2021**, 35, 175-178		4
356	Z-scheme N-doped K4Nb6O17/g-C3N4 heterojunction with superior visible-light-driven photocatalytic activity for organic pollutant removal and hydrogen production. **2021**, 42, 164-174		40

355	Synthesis of carbon nitride in moist environments: A defect engineering strategy toward superior photocatalytic hydrogen evolution reaction. **2021**, 54, 403-413	12
354	Polymer photocatalysts for solar-to-chemical energy conversion. **2021**, 6, 168-190	116
353	Recent advances in the improvement of g-C3N4 based photocatalytic materials. **2021**, 32, 13-20	43
352	Investigations on effect of graphitic carbon nitride loading on the properties and electrochemical performance of g-C3N4/TiO2 nanocomposites for energy storage device applications. **2021**, 121, 105328	17
351	State-of-the-art review of morphological advancements in graphitic carbon nitride (g-CN) for sustainable hydrogen production. **2021**, 135, 110235	47
350	Graphitic carbon nitride (g-C3N4)-based nanostructured materials for photodynamic inactivation: Synthesis, efficacy and mechanism. **2021**, 404, 126528	25
349	Carbon nitride based photocatalysts for solar photocatalytic disinfection, can we go further?. **2021**, 404, 126540	43
348	A novel sulfur-assisted annealing method of g-C3N4 nanosheet compensates for the loss of light absorption with further promoted charge transfer for photocatalytic production of H2 and H2O2. **2021**, 281, 119539	54
347	Amoxicillin photodegradation under visible light catalyzed by metal-free carbon nitride: An investigation of the influence of the structural defects. **2021**, 401, 123713	17
346	Improving g-C3N4:WO3 Z-scheme photocatalytic performance under visible light by multivariate optimization of g-C3N4 synthesis. **2021**, 537, 147904	9
345	3D macroporous architecture of self-assembled defect-engineered ultrathin g-C3N4 nanosheets for tetracycline degradation under LED light irradiation. **2021**, 133, 111074	15
344	Strategy to improve the super-capacitive and hydrogen evolution performance of graphitic carbon nitrides via enrichment of carbon content. **2021**, 858, 157671	4
343	Development of mesoporous Bi2WO6/g-C3N4 heterojunctions via soft- and hard-template-assisted procedures for accelerated and reinforced photocatalytic reduction of mercuric cations under vis light irradiation. **2021**, 47, 5003-5012	8
342	Recent Progress on Carbon Nitride and Its Hybrid Photocatalysts for CO2 Reduction. **2021**, 5, 2000478	16
341	A novel route to porous N-doping carbon grafted carbon nitride for enhanced photocatalytic activity on CO2 reduction. **2021**, 540, 148411	9
340	One-step synthesis of nitrogen-defective graphitic carbon nitride for improving photocatalytic hydrogen evolution. **2021**, 410, 124594	7
339	Fabrication of graphitic carbon nitride films by inkjet printing. **2021**, 610, 125919	1
338	Soft-template synthesis of sp2-carbon linked polymeric carbon nitride porous nanotubes with enhanced photocatalytic hydrogen evolution. **2021**, 541, 148427	11

337	Preparation, structure and application of g-C3N4/BiOX composite photocatalyst. **2021**, 46, 1857-1878	16
336	A comparative study between thermal etching and liquid exfoliation of bulk graphitic carbon nitride to nanosheets for the photocatalytic degradation of a model environmental pollutant, Rhodamine B. **2021**, 32, 687-706	4
335	Engineering Surface N-Vacancy Defects of Ultrathin Mesoporous Carbon Nitride Nanosheets as Efficient Visible-Light-Driven Photocatalysts. **2021**, 5, 2000610	11
334	Band-gap-energy-adjustable and noble-metal-free modified NiS-Zn Cd1-S for highly efficient visible-light-driven Cr6+ photoreduction in alkaline wastewater. **2021**, 150, 109893	2
333	High surface area Nanoflakes of P-gC3N4 photocatalyst loaded with Ag nanoparticle with intraplanar and interplanar charge separation for environmental remediation. **2021**, 408, 113098	1
332	Conjugated nanomaterials for solar fuel production. **2021**, 13, 634-646	11
331	Time-delayed photocatalysis enhanced microbial nitrate reduction via solar energy storage in carbon nitrides. **2021**, 417, 127904	6
330	Copper-oxygen synergistic electronic reconstruction on g-C3N4 for efficient non-radical catalysis for peroxydisulfate and peroxymonosulfate. **2021**, 257, 117957	16
329	Template-free assembly of protonated g-C3N4 nanosheets into microspheres with enhanced UV-light photocatalytic activity. **2021**, 282, 128698	1
328	Efficient persulfate non-radical activation of electron-rich copper active sites induced by oxygen on graphitic carbon nitride. **2021**, 762, 143127	10
327	The effect of graphitic carbon nitride precursors on the photocatalytic dye degradation of water-dispersible graphitic carbon nitride photocatalysts. **2021**, 537, 148027	25
326	A facile one-step fabrication of holey carbon nitride nanosheets for visible-light-driven hydrogen evolution. **2021**, 283, 119637	38
325	Making g-C3N4 ultra-thin nanosheets active for photocatalytic overall water splitting. **2021**, 282, 119557	41
324	A review of the current status of graphitic carbon nitride. **2021**, 46, 189-217	66
323	CHAPTER 6:Atomic and Molecular Functionalization of Graphitic Carbon Nitride for Solar Cell Applications. **2021**, 221-261	0
322	Coatings of magnetic composites of iron oxide and carbon nitride for photocatalytic water purification.. **2021**, 11, 14053-14062	4
321	Cobalt single atom site catalysts with ultrahigh metal loading for enhanced aerobic oxidation of ethylbenzene. **2021**, 14, 2418	99
320	Atomic-Level Charge Separation Strategies in Semiconductor-Based Photocatalysts. **2021**, 33, e2005256	78

319	Technological Advancement in Photocatalytic Degradation of Dyes Using Metal-Doped Biopolymeric Composites: Present and Future Perspectives. **2021**, 205-255		
318	Graphitic carbon nitride: Synthesis and characterization. **2021**, 573-590		1
317	Photochemistry of carbon nitrides and heptazine derivatives. **2021**, 57, 9330-9353		4
316	Regulating morphological and electronic structures of polymeric carbon nitrides by successive copolymerization and stream reforming for photocatalytic CO2 reduction. **2021**, 11, 2570-2576		4
315	Research development on graphitic carbon nitride and enhanced catalytic activity on ammonium perchlorate.. **2021**, 11, 5729-5740		4
314	Highly efficient photocatalytic CO2 reduction by a ruthenium complex sensitizing g-C3N4/MOF hybrid photocatalyst. **2021**, 45, 8965-8970		2
313	Graphitic carbon nitride-based metal-free photocatalyst. **2021**, 449-484		0
312	Unravelling intramolecular charge transfer in donor–acceptor structured g-C3N4 for superior photocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2021**, 9, 1207-1212	13	18
311	High carrier separation efficiency for a defective g-C3N4 with polarization effect and defect engineering: mechanism, properties and prospects. **2021**, 11, 5432-5447		6
310	The preparation of a Co@C3N4 catalyst and applications in the synthesis of quinolines from 2-aminobenzyl alcohols with ketones. **2021**, 45, 6768-6772		6
309	Single-layer carbon nitride: synthesis, structure, photophysical/photochemical properties, and applications. **2021**, 23, 20745-20764		1
308	Functionalized Graphitic Carbon Nitrides for Environmental and Sensing Applications. **2021**, 2, 2000073		9
307	Sulfonic acid functionalized graphitic carbon nitride as solid acid–base bifunctional catalyst for Knoevenagel condensation and multicomponent tandem reactions. **2021**, 5, 6265-6278		19
306	The effects of chemical and thermal exfoliation on the physico-chemical and optical properties of carbon nitrides.		5
305	TiO2/Ti3C2 intercalated with g-C3N4 nanosheets as 3D/2D ternary heterojunctions photocatalyst for the enhanced photocatalytic reduction of nitrate with high N2 selectivity in aqueous solution. **2021**, 8, 2518-2531		10
304	Graphitic Carbon Nitride as a Sustainable Catalyst for Selective Ethanol Oxidation. **2021**, 9, 5128-5137		6
303	A Review on Emerging Efficient and Stable Perovskite Solar Cells Based on g-CN Nanostructures. **2021**, 14,		6
302	Enhanced solar-to-chemical energy conversion of graphitic carbon nitride by two-dimensional cocatalysts. **2021**, 3, 100051		45

301	Construction of mesoporous ZnFe2O4-g-C3N4 nanocomposites for enhanced photocatalytic degradation of acridine orange dye under visible light illumination adopting soft- and hard-template-assisted routines. **2021**, 11, 1260-1271	6
300	Porous Carbon Nanosheets Derived from ZIF-8 Treated with KCl as Highly Efficient Electrocatalysts for the Oxygen Reduction Reaction. **2021**, 9, 2100035	5
299	Photocatalytic Conversion of Nitrogen Oxides: Current State and Perspectives: a Review. **2021**, 57, 30-63	0
298	g-C3N4 nanosheets exfoliated by green wet ball milling process for photodegradation of organic pollutants. **2021**, 766, 138335	3
297	Graphitic carbon nitride/carbon brush composite as a novel anode for yeast-based microbial fuel cells. **2021**, 221, 119849	19
296	New structure candidates for the experimentally synthesized heptazine-based and triazine-based two dimensional graphitic carbon nitride. **2021**, 128, 114535	2
295	Effects of sonochemical approach and induced contraction of core-shell bismuth sulfide/graphitic carbon nitride as an efficient electrode materials for electrocatalytic detection of antibiotic drug in foodstuffs. **2021**, 72, 105445	13
294	Engineered Graphitic Carbon Nitride-Based Photocatalysts for Visible-Light-Driven Water Splitting: A Review. **2021**, 35, 6504-6526	46
293	One-step fabrication of few-layer g-C3N4 by pressure quenching and investigation of its exfoliating effect. **2021**, 233, 116395	1
292	Sulfur-doped graphitic carbon nitride for Tm:YAIO laser operation at 2.3 μm. **2021**, 46, 2043-2046	1
291	Nanomaterials significance; contaminants degradation for environmental applications. **2021**, 2, 022002	1
290	An Overview of the Recent Progress in Polymeric Carbon Nitride Based Photocatalysis. **2021**, 21, 1811-1844	15
289	Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. **2021**, 37, 101059	24
288	A step-by-step synergistic stripping approach toward ultra-thin porous g-CN nanosheets with high conduction band position for photocatalystic CO reduction. **2021**, 589, 179-186	16
287	Insights into the Mechanism of Elemental Mercury Adsorption on Graphitic Carbon Nitride: A Density Functional Theory Study. **2021**, 35, 9322-9331	8
286	CoO @Co-NC Catalyst with Dual Active Centers for Enhanced Oxygen Evolution: Breaking Trade-Off of Particle Size and Metal Loading. **2021**, 27, 10657-10665	1
285	Efficient Advanced Oxidation Process (AOP) for Photocatalytic Contaminant Degradation Using Exfoliated Metal-Free Graphitic Carbon Nitride and Visible Light-Emitting Diodes. **2021**, 11, 662	2
284	A facile and green microwave hydrothermal method for fabricating g-C3N4 nanosheets with improved hydrogen evolution performance. **2021**, 863, 158448	7

283	Topochemical Intercalation of Graphitic Carbon Nitride with Alkali Metals in Ethylenediamine. **2021**, 125, 9947-9955	1
282	Detection and identification of p-nitrophenol based on g-C3N4 nanosheets by photoinduced electron transfer. **2021**, 28, 1	1
281	Effect of B and O doping on the electronic structure and quantum capacitance of carbon nitride monolayers using first-principles calculations. **2021**, 129, 174301	2
280	2D Graphitic Carbon Nitride for Energy Conversion and Storage. **2021**, 31, 2102540	42
279	Synthesis of highly porous g-C3N4 nanotubes for efficient photocatalytic degradation of sulfamethoxazole. **2021**, 27, 102288	3
278	Photocatalytic degradation of dinotefuran by layered phosphorus-doped carbon nitride and its mechanism. **2021**, 414, 113287	4
277	Two-dimensional graphitic carbon nitride-based membranes for filtration process: Progresses and challenges. **2021**, 427, 130955	2
276	Facile Fabrication of Photocatalyst-Immobilized Gel Beads with Interconnected Macropores for the Efficient Removal of Pollutants in Water. **2021**, 60, 8762-8775	3
275	A dual strategy for synthesizing carbon/defect comodified polymeric carbon nitride porous nanotubes with boosted photocatalytic hydrogen evolution and synchronous contaminant degradation. **2021**, 287, 119995	31
274	Silver-doped molybdenum oxide ternary nanoparticles with excellent supercapacitor and hydrogen peroxide-sensing performance. **2021**, 20, 100774	4
273	One-pot synthesis of porous g-C3N4 nanosheets with enhanced photocatalytic activity under visible light. **2021**, 116, 108416	2
272	Nanostructured graphitic carbon nitride based ultrasensing electrochemical biosensor for food toxin detection. **2021**, 139, 107738	14
271	1D/2D carbon-doped nanowire/ultra-thin nanosheet g-C3N4 isotype heterojunction for effective and durable photocatalytic H2 evolution. **2021**, 46, 25436-25447	17
270	Developing the amazing photocatalyst of ZnAgGeSe, ZnAgGeFeSe and ZnAgGeFeSe through the computational explorations by four DFT functionals. **2021**, 7, e07467	4
269	Modulated BiOCl nanoplates with porous g-C3N4 nanosheets for photocatalytic degradation of color/colorless pollutants in natural sunlight. **2021**, 154, 110064	25
268	Graphitic carbon nitride-based materials for photocatalytic antibacterial application. **2021**, 145, 100610	55
267	Fabrication of Six Manganese Containing Polyoxometalate Modified Graphite C3N4 Nanosheets Catalysts Used to Catalyze Water Decomposition. **2021**, 11, 856	2
266	Fabricating a novel ternary recyclable FeO/graphene/sulfur-doped g-CN composite catalyst for enhanced removal of ranitidine under visible-light irradiation and reducing of its N-nitrosodimethylamine formation potential. **2021**, 413, 125288	6

265	Synergistically homogeneous-heterogeneous Fenton catalysis of trace copper ion and g-CN for degradation of organic pollutants. **2021**, 84, 1090-1102	
264	Analysis of Photocatalytic Degradation of Phenol with Exfoliated Graphitic Carbon Nitride and Light-Emitting Diodes Using Response Surface Methodology. **2021**, 11, 898	3
263	Emerging graphitic carbon nitride-based membranes for water purification. **2021**, 200, 117207	11
262	Z-scheme g-C3N4-AQ-MoO3 photocatalyst with unique electron transfer channel and large reduction area for enhanced sunlight photocatalytic hydrogen production. **2021**, 288, 120025	35
261	Ab-Initio Spectroscopic Characterization of Melem-Based Graphitic Carbon Nitride Polymorphs. **2021**, 11,	4
260	Amino group-rich porous g-C3N4 nanosheet photocatalyst: Facile oxalic acid-induced synthesis and improved H2-evolution activity. **2021**, 47, 18295-18303	6
259	An all-organic 0D/2D supramolecular porphyrin/g-C3N4 heterojunction assembled via □□ interaction for efficient visible photocatalytic oxidation. **2021**, 291, 120059	28
258	The integrated production of ultrathin-CNand membrane assisted by edible syrup for the sustained photocatalytic treatment of Cr(VI) and tetracycline. **2021**, 32,	1
257	Efficient removal of high-concentration copper ions from wastewater via 2D g-C3N4 photocatalytic membrane filtration. **2021**, 623, 126714	5
256	Copper oxide doped composite nanospheres decorated graphite pencil toward efficient hydrogen evolution electrocatalysis. **2021**, 335, 116084	4
255	Bi S -In S Heterostructures for Efficient Photoreduction of Highly Toxic Cr Enabled by Facet-Coupling and Z-Scheme Structure. **2021**, 17, e2101833	10
254	High surface area g-C3N4 and g-C3N4-TiO2 photocatalytic activity under UV and Visible light: Impact of individual component. **2021**, 9, 105587	9
253	Carbon Nitride Quantum Dot-Embedded Poly(vinyl alcohol) Transparent Thin Films for Greenish-Yellow Light-Emitting Diodes. **2021**, 6, 22840-22847	0
252	Rod-Shaped Bi2S3 Supported on Flaky Carbon Nitride for Effective Removal of Elemental Mercury in Flue Gas. **2021**, 35, 14634-14646	1
251	Doping and Decorating 2D Materials for Biosensing: Benefits and Drawbacks. **2021**, 31, 2102555	5
250	Fabrication of highly sensitive anticancer drug sensor based on heterostructured ZnO-Co3O4 capped on carbon nitride nanomaterials. **2021**, 167, 106244	9
249	Visible light excited graphitic carbon nitride for efficient degradation of thiamethoxam: Removal efficiency, factors effect and reaction mechanism study. **2021**, 9, 105739	1
248	Nanocomposite catalyst of graphitic carbon nitride and Cu/Fe mixed metal oxide for electrochemical CO2 reduction to CO. **2021**, 291, 120052	24

247	Graphitic carbon nitride nanosheet/metal-organic framework heterostructure: Synthesis and pollutant degradation using visible light. **2021**, 269, 124726	1
246	Visible-light-driven Z-scheme protonated g-CN/wood flour biochar/BiVO photocatalyst with biochar as charge-transfer channel for enhanced RhB degradation and Cr(VI) reduction. **2022**, 806, 150662	7
245	Noble-metal-free p-n heterojunction of iron(III) hydroxide and graphitic carbon nitride for hydrogen evolution reaction. **2021**,	
244	Visible Light-Driven Reforming of Lignocellulose into H by Intrinsic Monolayer Carbon Nitride. **2021** , 13, 44243-44253	5
243	Photocatalytic water purification with graphitic C3N4-based composites: Enhancement, mechanisms, and performance. **2021**, 24, 101118	4
242	g-C3N4-Based 2D/2D Composite Heterojunction Photocatalyst. 2100086	19
241	Novel carbon nitride@polydopamine/molybdenum disulfide nanoflame retardant improves fire performance of composite coatings. **2021**, 127575	6
240	Construction of Electrostatic Self-Assembled 2D/2D CdInS/g-CN Heterojunctions for Efficient Visible-Light-Responsive Molecular Oxygen Activation. **2021**, 11,	2
239	Homojunction type of carbon nitride as a robust photo-catalyst for reduction conversion of CO2 in water vapor under visible light. **2021**, 430, 132668	2
238	Novel Nanostructured Nd(OH)3/g-C3N4 Nanocomposites (Nanorolls Anchored on Nanosheets) as Reliable Electrode Material for Supercapacitors. **2021**, 35, 15205-15212	1
237	Nanocellulose-derived carbon/g-CN heterojunction with a hybrid electron transfer pathway for highly photocatalytic hydrogen peroxide production. **2021**, 599, 507-518	7
236	Enhanced photodegradation ability and mechanism study of g-C3N4 by dual modified with sulfur-containing quantum dots doping after oxidization. **2021**, 419, 113462	0
235	Efficient solar light facilitated photo-oxidative detoxification of gaseous 2-chloroethyl ethyl sulfide on ZrO-doped g-CN under dry and humid air. **2021**, 280, 130685	4
234	Photocatalytic bauxite and red mud/graphitic carbon nitride composites for Rhodamine B removal. **2021**, 1242, 130752	2
233	A novel layer-layer crossed structure of bentonite/g-C3N4 for enhanced photocatalytic oxidation of arsenic(III) in a wide pH range. **2021**, 26, 101365	2
232	Gel-like carbon dots: A high-performance future photocatalyst. **2021**, 599, 519-532	3
231	Green synthesis of Ag/g-C3N4 composite materials as a catalyst for DBD plasma in degradation of ethyl acetate. **2021**, 272, 115321	4
230	A UV-shielding and hydrophobic graphitic carbon nitride nanosheets/cellulose nanofibril (gCNNS/CNF) transparent coating on wood surface for weathering resistance. **2021**, 159, 106440	2

229	S vacancy modulated Zn Cd1−S/CoP quantum dots for efficient H2 evolution from water splitting under visible light. **2021**, 61, 210-218	10
228	Rich S vacant g-C3N4@CuIn5S8 hollow heterojunction for highly efficient selective photocatalytic CO2 reduction. **2021**, 424, 130325	14
227	Exfoliated and evaporated thin films of graphitic carbon nitride (g-C3N4): Evolution of photoelectronic properties from bulk. **2021**, 302, 130374	0
226	Semiconducting graphitic carbon nitride integrated membranes for sustainable production of clean water: A review. **2021**, 282, 130898	4
225	High-efficient photocatalytic degradation of commercial drugs for pharmaceutical wastewater treatment prospects: A case study of Ag/g-CN/ZnO nanocomposite materials. **2021**, 282, 130971	10
224	Caesium sites coordinated in Boron-doped porous and wrinkled graphitic carbon nitride nanosheets for efficient charge carrier separation and Transfer: Photocatalytic H2 and H2O2 production. **2021**, 423, 130067	6
223	High-temperature ferromagnetism in non-metal carbonitride: From nitrogen vacant g-C3N4 to N-doped graphene. **2021**, 538, 168223	2
222	Insight into the influence of donor-acceptor system on graphitic carbon nitride nanosheets for transport of photoinduced charge carriers and photocatalytic H generation. **2021**, 601, 326-337	6
221	Ultrahigh-performance visible-light photodegradation enabled by direct Z-scheme AgI/(Na,F)□3N4 composites. **2021**, 224, 109200	13
220	Controlled synthesis of Ag2O/g-C3N4 heterostructures using soft and hard templates for efficient and enhanced visible-light degradation of ciprofloxacin. **2021**, 47, 31073-31083	3
219	Preparation of enhanced AgI@MnO2 heterojunction photocatalysts for rapid sterilization under visible light. **2021**, 887, 161431	2
218	Thermal coupled photocatalysis over Pt/g-C3N4 for selectively reducing CO2 to CH4 via cooperation of the electronic metal–support interaction effect and the oxidation state of Pt. **2021**, 298, 120565	12
217	Photocatalytic H2 production with simultaneous wastewater purification over flower-like 1T/2H-MoS2-decorated CNT/CNU isotype heterojunction photocatalyst. **2021**, 569, 151072	2
216	Fabrication of ultra-thin g-C3N4 nanoplates for efficient visible-light photocatalytic H2O2 production via two-electron oxygen reduction. **2021**, 425, 130615	21
215	High-loading single-atom tungsten anchored on graphitic carbon nitride (melon) for efficient oxidation of emerging contaminants. **2022**, 427, 131973	3
214	Recent advances in graphitic carbon nitride semiconductor: Structure, synthesis and applications. **2022**, 137, 106181	13
213	Construction of Fe3O4@□CD/g-C3N4 nanocomposite catalyst for degradation of PCBs in wastewater through photodegradation and heterogeneous Fenton oxidation. **2022**, 429, 132445	8
212	Tube wall delamination engineering induces photogenerated carrier separation to achieve photocatalytic performance improvement of tubular g-CN. **2022**, 424, 127177	17

211	Oxygen-containing groups and P doped porous carbon nitride nanosheets towards enhanced photocatalytic activity. **2022**, 287, 132399	0
210	Well-designed oxidized Sb/g-CN 2D/2D nanosheets heterojunction with enhanced visible-light photocatalytic disinfection activity. **2022**, 606, 1284-1298	5
209	Defect engineering of water-dispersible g-C3N4 photocatalysts by chemical oxidative etching of bulk g-C3N4 prepared in different calcination atmospheres. **2022**, 103, 232-243	4
208	Visible light active g-C3N4 sheets/CdS heterojunction photocatalyst for decolourisation of acid blue (AB-25). **2021**, 23, 1	2
207	Simultaneous layer exfoliation and defect activation in g-C3N4 nanosheets with air□water interfacial plasma: spectroscopic defect probing with tailored optical properties. **2021**, 3, 3260-3271	1
206	Recent advancements and opportunities of decorated graphitic carbon nitride toward solar fuel production and beyond. **2021**, 5, 4457-4511	8
205	Increment in Photocatalytic Activity of g-C3N4 Coupled Sulphides and Oxides for Environmental Remediation. **2020**, 159-192	1
204	Metal-free catalytic conversion of CO2 into cyclic carbonate by hydroxyl-functionalized graphitic carbon nitride materials. **2020**, 491, 110979	6
203	Self-powered flexible photodetectors based on Ag nanoparticle-loaded g-CN nanosheets and PVDF hybrids: role of plasmonic and piezoelectric effects. **2020**, 31, 365401	13
202	Research Development on Graphitic Carbon Nitride Nanosheets. **2015**, 03, 13-23	2
201	Recent Advances in Heteroatom Doped Graphitic Carbon Nitride (g-C3N4) and g-C3N4/Metal Oxide Composite Photocatalysts. **2020**, 24, 673-693	7
200	Graphitic Carbon Nitride-Based Composite in Advanced Oxidation Processes for Aqueous Organic Pollutants Removal: A Review. **2021**, 9, 66	9
199	Ru-gC3N4 Catalyzed Hydrodebenzylation of Benzyl Protected Alcohol and Acid Groups Using Sodium Hypophosphite as a Hydrogen Source. **2021**, 11, 1227	0
198	Organic semiconductor nanostructures: Optoelectronic properties, Modification strategy, and Photocatalytic Applications. **2021**,	1
197	Constructing a Cs3Sb2Br9/g-C3N4 Hybrid for Photocatalytic Aromatic C(sp3)?H Bond Activation. **2021**, 5, 2100559	3
196	Facile preparation of a novel modified biochar-based supramolecular self-assembled g-CN for enhanced visible light photocatalytic degradation of phenanthrene. **2021**, 288, 132620	2
195	Multi-dimensional applications of graphitic carbon nitride nanomaterials □A review. **2021**, 344, 117820	3
194	Optimization of process parameters for photoreforming of hydrogen evolution via response surface methodology (RSM): A study using Carbon@exfoliated g□3N4. **2021**, 177, 513-513	1

193	Effect of Protonation on the Photocatalytic H2 Evolution Performance of Ni(OH)2/g-C3N4 Composite. **2019**, 09, 233-242	
192	Preparation and Luminescence Properties of Europium(III) Ternary Complex-modified Poplar Wood-based Materials. **2019**, 22,	1
191	Photocatalysts based on polymeric carbon nitride for solar-to-fuel conversion. **2020**, 31, 475-507	0
190	Synthesis of Atomically Thin g-CN Nanosheets via Supercritical CO Doping with Single-Atom Cobalt for Photocatalytic Hydrogen Evolution. **2021**,	2
189	Nanostructure Engineering of Graphitic Carbon Nitride for Electrochemical Applications. **2021**,	4
188	High flux photocatalytic self-cleaning nanosheet C3N4 membrane supported by cellulose nanofibers for dye wastewater purification. **2021**, 14, 2568-2573	10
187	Exfoliation method matters: The microstructure-dependent photoactivity of g-CN nanosheets for water purification. **2022**, 424, 127424	4
186	Single atom Fe-dispersed graphitic carbon nitride (g-C3N4) as a highly efficient peroxymonosulfate photocatalytic activator for sulfamethoxazole degradation. **2022**, 430, 132937	16
185	Metal-free four-in-one modification of g-C3N4 for superior photocatalytic CO2 reduction and H2 evolution. **2022**, 430, 132853	7
184	Removal of Methylene Blue Dye Using Metal-Free g-C3N4 Photocatalyst over Natural Sunlight Irradiation. 975, 115-120	1
183	A Review of Recent Progress on Photocatalytic Carbon dioxide Reduction into Sustainable Energy Products using Carbon Nitride. **2021**,	5
182	Dual-wavelength electrochemiluminescence ratiometry for hydrogen sulfide detection based on Cd-doped g-CN nanosheets.. **2021**,	1
181	Synthesis and characterization of P-doped g-C3N4 nanosheet hybridized ZnS nanospheres with enhanced visible-light photocatalytic activity. **2022**, 305, 122703	2
180	New insights into the exploitation of oxidized carbon nitrides as heterogeneous base catalysts. **2022**, 531, 120732	1
179	Fluorinated inverse opal carbon nitride combined with vanadium pentoxide as a Z-scheme photocatalyst with enhanced photocatalytic activity. **2021**,	1
178	Nanoarchitectonics of phosphorylated graphitic carbon nitride for sustainable, selective and metal-free synthesis of primary amides. **2021**, 431, 133695	3
177	Band structure tuning of g-C3N4 via sulfur doping for broadband near-infrared ultrafast photonic applications. **2021**,	1
176	Hydroxyl-functionalized ultra-thin graphitic-carbon-nitrite nanosheets-accommodated polyvinyl alcohol membrane for pervaporation of isopropanol/water mixture. **2021**,	1

175	Boosting Photocatalytic Activity Using Carbon Nitride Based 2D/2D van der Waals Heterojunctions.	14
174	Photocatalytic MOF membranes with two-dimensional heterostructure for the enhanced removal of agricultural pollutants in water. **2021**, 133870	1
173	Polytriazine imide-LiCl semiconductor for highly efficient photooxidation of benzyl alcohol to benzaldehyde. **2021**, 133, 1	
172	Promoted interfacial charge transfer by coral-like nickel diselenide for enhanced photocatalytic hydrogen evolution over carbon nitride nanosheet. **2021**,	2
171	Synthesis of Large Area Graphitic Carbon Nitride Nanosheet by Chemical Vapor Deposition.	
170	Structure modulation of g-CN in TiO{001}/g-CN hetero-structures for boosting photocatalytic hydrogen evolution.. **2021**, 11, 37089-37102	0
169	Supramolecular organization of melem for the synthesis of photoactive porous carbon nitride rods. **2021**, 13, 19511-19517	3
168	Single-atom cobalt-hydroxyl modification of polymeric carbon nitride for highly enhanced photocatalytic water oxidation: ball milling increased single atom loading.. **2022**, 13, 754-762	5
167	Multi-walled carbon nanotubes encapsulated by graphitic carbon nitride with simultaneously co-doping of B and P and ammonium polyphosphate to improve flame retardancy of unsaturated polyester resins. **2022**, 277, 125594	0
166	Maximizing the utilization of photo-generated electrons and holes of g-C3N4 photocatalyst for harmful algae inactivation. **2022**, 431, 134105	10
165	Synthesis of large area graphitic carbon nitride nanosheet by chemical vapor deposition. **2022**, 900, 163310	0
164	High-crystalline polymeric carbon nitride flake composed porous nanotubes with significantly improved photocatalytic water splitting activity: The optimal balance between crystallinity and surface area. **2022**, 432, 134388	5
163	Graphitic carbon nitride for photocatalytic CO2 reduction. **2022**, 69-96	
162	Incorporating nitrogen vacancies in exfoliated B-doped g-C3N4 towards improved photocatalytic ciprofloxacin degradation and hydrogen evolution.	1
161	Morphology and element doping effects: phosphorus-doped hollow polygonal g-C3N4 rods for visible light-driven CO2 reduction. **2022**, 46, 3017-3025	0
160	Facile synthesis of mesoporous polymeric carbon nitride nanosheets anchored by Pt with ultralow loading for high-efficiency photocatalytic H evolution. **2021**,	
159	Graphitic carbon nitride for photodegradation of dye Molecules. **2022**, 97-140	
158	Identification of Active Species in Photodegradation of Aqueous Imidacloprid over g-C3N4/TiO2 Nanocomposites. **2022**, 12, 120	3

157	Graphitic carbon nitride based optoelectronic devices. **2022**, 515-544	0
156	Monolayer Graphitic Carbon Nitride as Metal-Free Catalyst with Enhanced Performance in Photo- and Electro-Catalysis.. **2022**, 14, 55	5
155	Controllable morphology CoFe2O4/g-C3N4 p-n heterojunction photocatalysts with built-in electric field enhance photocatalytic performance. **2022**, 306, 121107	6
154	Organic photocatalysts: From molecular to aggregate level. 1	1
153	Recent Advancement of the Current Aspects of g-C N for its Photocatalytic Applications in Sustainable Energy System.. **2022**, e202100310	3
152	Z-scheme MoO3-2D SnS nanosheets heterojunction assisted g-C3N4 composite for enhanced photocatalytic hydrogen evolutions. **2022**,	1
151	ZnS-modified carbon nitride nanosheet with enhanced performance of elemental Hg removal: An experimental and density functional theory study. 1	3
150	Photocatalytic properties of graphitic carbon nitrides (g-C3N4) for sustainable green hydrogen production: Recent advancement. **2022**, 316, 123381	3
149	Inducing Ferromagnetism in Graphitic Carbon Network by S Doping and Observation of Giant Magnetoresistance.	
148	Interfacial Ti?N bonding of a g-C3N4/TiH1.92 type-II heterojunction photocatalyst significantly enhanced photocatalytic hydrogen evolution from water splitting. **2022**, 12, 2023-2029	2
147	Improving anticorrosion performance of epoxy coating by hybrids of rGO and g-C3N4 nanosheets. 1	
146	Ultra-thin carbon nitride nanosheets for efficient photocatalytic hydrogen evolution. **2022**, 136115	2
145	Nitrogen-rich carbon nitrogen polymers for enhancing the sorption of uranyl. **2022**,	3
144	Solution-Processable Semiconducting Conjugated Planar Network.. **2022**,	
143	A hierarchical graphitic carbon nitride supported by metal□organic framework and copper nanocomposite as a novel bifunctional catalyst with long-term stability for enhanced carbon dioxide photoreduction under solar light irradiation. 1	2
142	Role of the Bromide on the Hydrodebenzylation of 2,4,6,8,10,12-Hexabenzyl-2,4,6,8,10,12-hexaazaisowurtzitane (HBIW). **2022**, 7,	
141	Surface Modification of Two-Dimensional Photocatalysts for Solar Energy Conversion.. **2022**, e2200180	18
140	AQ-coupled few-layered g-C3N4 nanoplates obtained by one-step mechanochemical treatment for efficient visible-light photocatalytic H2O2 production. **2022**,	1

139	Graphitic Carbon Nitride for Gaseous Mercury Emission Control: A Review.	0
138	Copper phthalocyanine conjugated graphitic carbon nitride nanosheets as an efficient electrocatalyst for simultaneous detection of natural antioxidants. **2022**, 413, 140150	2
137	Morphology-dependent photocatalysis of graphitic carbon nitride for sustainable remediation of aqueous pollutants: A mini review. **2022**, 10, 107438	1
136	Dosimetric analysis of graphitic carbon nitride quantum dots exposed to a gamma radiation for a low-dose applications.. **2022**, 184, 110200	
135	Recent advances in carbonaceous sustainable nanomaterials for wastewater treatments. **2022**, 32, e00406	5
134	Highly stable iodine capture by pillared montmorillonite functionalized Bi2O3@g-C3N4 nanosheets. **2022**, 292, 120994	0
133	Air- and water-stable halide perovskite nanocrystals protected with nearly-monolayer carbon nitride for CO2 photoreduction and water splitting. **2022**, 592, 153276	1
132	Fe C enhancing the catalytic activity of FeN in oxidative dehydration of N-heterocycles. **2021**,	1
131	Influence of Hydrogenation on Morphology, Chemical Structure and Photocatalytic Efficiency of Graphitic Carbon Nitride. **2021**, 22,	0
130	From 1D to 3D Graphitic Carbon Nitride (Melon): A Bottom-Up Route via Crystalline Microporous Templates. **2021**,	2
129	Tailor-Engineered 2D Cocatalysts: Harnessing Electron□Hole Redox Center of 2D g-C 3 N 4 Photocatalysts toward Solar-to-Chemical Conversion and Environmental Purification. 2111875	15
128	Hydrogen production via photoreforming of wastewater under LED light-driven over CuO@exfoliated g-CN nanoheterojunction.. **2022**, 301, 134649	0
127	Effect of Band Bending in Photoactive MOF-Based Heterojunctions.. **2022**,	0
126	Boosting photocatalytic hydrogen evolution via regulating Pt chemical states. **2022**, 442, 136334	2
125	Photocatalytic elimination of moxifloxacin by two-dimensional graphitic carbon nitride nanosheets: Enhanced activity, degradation mechanism and potential practical application. **2022**, 292, 121067	2
124	Phosphorus decorated g-C3N4-TiO2 particles as efficient metal-free catalysts for hydrogen release by NaBH4 methanolysis. **2022**, 322, 124196	2
123	Photocatalytic hydrogen evolution based on carbon nitride and organic semiconductors.. **2022**,	0
122	New Graphitic Carbon Nitride-Based Composite Membranes: Fast Water Transport Through the Synergistic Effect of Ta and Tris.	

121	Challenges surrounding nanosheets and their application to solar-driven photocatalytic water treatment.	1
120	HO-activated independently bidirectional regulation for a sensitive and accurate electrochemiluminescence ratiometric analysis.. **2022**,	1
119	Carbon Nitride Thin Film-Sensitized Graphene Field-Effect Transistor: A Visible-Blind Ultraviolet Photodetector. 2200313	0
118	Enhanced photocatalytic activity of rare earth (Yb, Nd and Ce)-doped g-C3N4 nanosheets for the degradation of organic dyes under visible light. 1	0
117	Photon and vibration synergism on planar defects induced 2D-graphitic carbon nitride for ultrafast remediation of dyes and antibiotic ampicillin. **2022**, 57, 8658-8675	2
116	Synergy of nitrogen vacancies and intercalation of carbon species for enhancing sunlight photocatalytic hydrogen production of carbon nitride. **2022**, 314, 121497	1
115	Graphitic carbon nitride supported palladium nanocatalyst as an efficient and sustainable catalyst for treating environmental contaminants and hydrogen evolution reaction. **2022**, 647, 129116	0
114	Ultrathin Porous Carbon Nitride Nanosheets with Well-tuned Band Structures via Carbon Vacancies and Oxygen Doping for Significantly Boosting H2 Production. **2022**, 121521	2
113	Sodium alkoxide-mediated g-C3N4 immobilized on a composite nanofibrous membrane for preferable photocatalytic activity. **2022**, 12, 15378-15384	0
112	Exfoliation of graphitic carbon nitride and homogeneous loading of Cu2O catalyst. **2022**, 129, 106915	0
111	Unraveling the Synergy between Anion Doping and Metal Embedding in G-C3n4 Towards Enhanced Photocatalytic Rates.	
110	The Enhanced Photocatalytic Selective Oxidation of Toluene to Benzaldehyde with O2 Over Metal-Free Delaminated G-C3n4: Synergistic Effect of Enhanced Textural Properties and Charge Carriers Separation.	1
109	Porous and Few-Layer Carbon Nitride Nanosheets via Surface Steam Etching for Enhanced Photodegradation Activity.	2
108	Comparison of the effectiveness of melamine derived graphitic carbon nitrides based photocatalysts towards the degradation of Rhodamine B. **2022**,	
107	Observation of room temperature metal free ferromagnetism in Sulfur doped graphitic carbon nitride. **2022**, 169439	
106	Synergy of nitrogen vacancies and partially broken hydrogen bonds in graphitic carbon nitride for superior photocatalytic hydrogen evolution under visible light.	1
105	Phosphorus-Doped Graphitic Carbon Nitride: A Metal-Free Electrocatalyst for Quercetin Sensing in Fruit samples. **2022**, 140759	0
104	Self-assembled 2D/2D Schottky heterojunction of Ti 3 C 2 /UiO-66 nanosheets for boosting photocatalytic H 2 evolution.	

103	New graphitic carbon nitride-based composite membranes: Fast water transport through the synergistic effect of tannic acid and tris(hydroxymethyl) aminomethane. **2022**, 658, 120736	0
102	Fast Charge Separation and Transfer Strategy in Polymeric Carbon Nitride for Efficient Photocatalytic H2 Evolution: Coupling Surface Schottky Junctions and Interlayer Charge Transfer Channels.	
101	Synthesis and properties of carbon nitride materials. **2022**, 1-18	
100	Recent Progress on Photoelectrochemical Water Splitting of Graphitic Carbon Nitride (g□N) Electrodes. **2022**, 12, 2374	0
99	Synthesis of Bi2S3 nanowires and their photocatalytic performance for hydrogen production.	
98	A review: g-C3N4 as a new membrane material. **2022**, 10, 108189	2
97	Nanostructured materials based on g-C3N4 for enhanced photocatalytic activity and potentials application: A review. **2022**, 15, 104070	0
96	TiO2 NPs/h-BN: Preparation and catalytic activities of a novel AP catalyst. 10,	
95	Z-scheme mechanism for methylene blue degradation over Fe2O3/g-C3N4 nanocomposite prepared via one-pot exfoliation and magnetization of g-C3N4. **2022**, 16,	0
94	Synergy of□Piezoelectric Polarization and Empty Conduction Band of Zinc Sulfide:□Realizing Structure Modulation on Graphitic Carbon Nitride□for Carbon Dioxide□Reduction□to□Methane.	0
93	N, S doped Graphene Quantum Dots Grafted Graphitic Carbon Nitride to Boost its Photocatalytic Hydrogen Evolution and Antibacterial Activity.	
92	Progress of g-C 3 N 4 and carbon-based material composite in fuel cell application.	1
91	Ultrafast Electron Transfer from Crystalline g-C3N4 to Pt Revealed by Femtosecond Transient Absorption Spectroscopy.	2
90	Review of 2D Graphitic Carbon Nitride-Based Membranes: Principles, Syntheses, and Applications.	0
89	Nongraphitic Carbon Nitride Melem Oligomer Nanosheets for Photocatalytic Degradation of Organic Pollutants.	2
88	A review on sulfonated poly (ether ether ketone) based-membrane in direct borohydride fuel cell applications.	
87	Integration of plasmonic AgPd alloy nanoparticles with single-layer graphitic carbon nitride as Mott-Schottky junction toward photo-promoted H2 evolution. **2022**, 12,	0
86	Perspectives on Advances in the Catalytic Desulfurization and Denitrogenation of Transportation Fuel Oils Using Graphitic Carbon Nitride and Boron Nitride. **2022**, 36, 8900-8924	2

85	Photocatalytic Activity of TiO2/g-C3N4 Nanocomposites for Removal of Monochlorophenols from Water. **2022**, 12, 2852	2
84	The effect of precursor selection on the microwave-assisted synthesis of graphitic carbon nitride. **2022**,	0
83	Application of visible light active photocatalysis for water contaminants: A Review.	3
82	Biosafe Bi2O2Se ultrathin nanosheet for water disinfection via solar-induced photothermal synergistic effect. **2022**, 440, 129808	
81	Photocatalytic hydrogen production using graphitic carbon nitride (GCN): A precise review. **2022**, 168, 112776	4
80	Unraveling the synergy between oxygen doping and embedding Fe nanoparticles in gC3N4 towards enhanced photocatalytic rates. **2022**, 603, 154404	0
79	Understanding inclusive quantum dots hollow CN@CIZS heterojunction for enhanced photocatalytic CO2 reduction. **2022**, 604, 154601	0
78	Heterostructure based on exfoliated graphitic carbon nitride coated by porous carbon for photocatalytic H2 evolution. **2022**,	0
77	Fast charge separation and transfer strategy in polymeric carbon nitride for efficient photocatalytic H2 evolution: Coupling surface Schottky junctions and interlayer charge transfer channels. **2022**, 103, 107767	0
76	Ultrafast charge-transfer at interfaces between 2D graphitic carbon nitride thin film and carbon fiber towards enhanced photocatalytic hydrogen evolution. **2022**, 606, 154938	0
75	Stable immobilization of bacterial endospores in reusable g-C3N4 pellets at room temperature. **2022**, 654, 130161	0
74	A review on recent advances in selective and sensitive detection of heavy toxic metal ions in water using g-C3N4-based heterostructured composites. **2022**, 6, 2610-2650	0
73	Photocatalytic hydrogen generation from methanol-water mixture in presence of g-C3N4 and graphene/g-C3N4.	0
72	Carbon Monoxide Desorption and Reduction Studies of Graphitic Carbon Nitride Supported Nickel Catalysts for CO Methanation. **2022**, 7,	0
71	Photocatalytic Reduction of Hexavalent Chromium Using Cu3.21Bi4.79S9/g-C3N4 Nanocomposite. **2022**, 12, 1075	3
70	Integrated molten and vapor condensation of polymeric carbon nitride photoelectrode towards efficient water splitting.	1
69	Photocatalytic Partial Oxidation of 5-Hydroxymethylfurfural to 2,5-Diformylfuran Using Exfoliated g-C3N4/Pd Nanoarchitectures. **2022**, 126, 15671-15684	0
68	P-Doped g-C3N4 Nanosheet-Modified BiVO4 Hybrid Nanostructure as an Efficient Visible Light-Driven Water Splitting Photoanode.	0

67	Fast hydrogen purification through graphitic carbon nitride nanosheet membranes. **2022**, 13,	0
66	Innovative molecularly imprinted electrochemical sensor for the nanomolar detection of Tenofovir as an anti-HIV drug. **2022**, 123991	1
65	Metal-organic framework/H2O2-exfoliated g-C3N4/poly(vinylidene fluoride) composite nanofiltration membranes. **2022**, 292, 126751	0
64	Architecting Ultrathin Graphitic C3N4 Nanosheets Incorporated PVA/Gelatin Bionanocomposite for Potential Biomedical Application: Effect on Drug Delivery, Release Kinetics, and Antibacterial Activity.	0
63	Carbon defective g-C3N4 thin-wall tubes for drastic improvement of photocatalytic H2 production. **2022**,	0
62	A Targeted Review of Current Progress, Challenges and Future Perspective of g-C 3 N 4 based Hybrid Photocatalyst Toward Multidimensional Applications.	0
61	Synthesis and modifications of g-C3N4-based materials and their applications in wastewater pollutants removal. **2022**, 10, 108782	0
60	Relay photo/thermal catalysis enables efficient cascade upgrading of sugars to lactic acid: Mechanism study and life cycle assessment. **2023**, 452, 139687	0
59	Anchoring highly distributed Pt species over oxidized graphitic carbon nitride for photocatalytic hydrogen evolution: The effect of reducing agents. **2023**, 609, 155305	0
58	Aminobenzaldehyde convelently modified graphitic carbon nitride photocatalyst through Schiff base reaction: Regulating electronic structure and improving visible-light-driven photocatalytic activity for moxifloxacin degradation. **2023**, 630, 867-878	1
57	Covalently interconnected layers in g-C3N4: Toward high mechanical stability, catalytic efficiency and sustainability. **2023**, 322, 122069	1
56	Liquid-phase exfoliation of graphitic carbon nitrides studied by molecular dynamics simulation. **2023**, 630, 900-910	1
55	Development of loose thin film nanofibrous composite nanofiltration membrane with modified g-C3N4 nanosheets barrier layer for efficient separation of salt/dye mixtures. **2022**, 122661	1
54	Synergistic Effect of Fe/Cu-N-C Dual Single-Atom Catalyst for C-H Bond Oxidation. **2022**,	1
53	Porous Graphitic Carbon Nitride Nanostructures and Their Application in Photocatalytic Hydrogen Evolution Reaction. **2022**, 133-163	0
52	Enhanced Room-Temperature Ethanol Detection by Quasi 2D Nanosheets of an Exfoliated Polymeric Graphitized Carbon Nitride Composite-Based Patterned Sensor.	1
51	Dual-functional Mo2C quantum dots enriched N-doped graphitic carbon layers in Advanced Oxidation Processes (AOPs). **2022**, 118963	0
50	Drastically enhanced tetracycline degradation performance of a porous 2D g-C3N4 nanosheet photocatalyst in real water matrix: Influencing factors and mechanism insight. **2022**, 50, 103315	0

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49	Graphitic carbon nitride decorated with CN compounds broken by s-triazine unit as homojunction for photocatalytic H2 evolution.	2
48	Synthesis of novel and tunable Micro-Mesoporous carbon nitrides for Ultra-High CO2 and H2S capture. **2023**, 456, 140973	0
47	Synthesis and modification of ultrathin g-C3N4 for photocatalytic energy and environmental applications. **2023**, 173, 113110	1
46	Atomically dispersed Co/C3N4 for boosting aerobic cyclohexane oxidation. **2023**, 613, 155886	0
45	Review of the performance of MOF/g-C3N4 composites for photocatalytic hydrogen production and CO2 reduction.	0
44	Amine-Functionalized Graphitic Carbon Nitride as a Sustainable Metal-free Catalyst for Knoevenagel Condensation.	2
43	Architecture and Kinetic Studies of Photocatalytic H2O2 Generation and H2 Evolution through Regulation of Spatial Charge Transfer via Z-Scheme Path over a (001) Facet Engineered TiO2@MXene/B-g-C3N4 Ternary Hybrid.	0
42	Dual-strategy modification on g-C3N4 for highly efficient inactivation of Microcystis aeruginosa under visible light. **2023**,	0
41	Recent Advances in g-C3N4-Based Photocatalysts for NOx Removal. **2023**, 13, 192	0
40	Carbon-Nitride Popcorn: A Novel Catalyst Prepared by Self-Propagating Combustion of Nitrogen-Rich Triazenes. 2205994	0
39	Microwave-assisted chemical modification of g-C3N4 for photoinduced processes: organic degradation, hydrogen production and selective oxidation of alcohols.	0
38	Preparation and characterization of Ce-MOF/g-C3N4 composites and evaluation of their photocatalytic performance. **2023**,	0
37	High-Performance Circulating Tumor DNA Liquid Biopsy Based on Graphitic Carbon Nitride Nanosheet for Monitoring Gastric Cancer-Related Gene Mutations. **2022**, 18, 2123-2131	0
36	Efficient Visible Light Hydrogen Evolution Catalyst Composed of Non-noble Metal Nitride(Ni3N) Cocatalyst and Zn0.5Cd0.5S Solid Solution.	0
35	Applications of graphitic carbon nitride as sorbent in analytical chemistry. **2023**, 271-304	0
34	Photocatalytic degradation and bacterial disinfection applications of graphitic carbon nitride. **2023**, 157-206	0
33	Photocatalytic water splitting and reduction of CO2. **2023**, 111-155	0
32	In situ quantitative single-molecule study of site-specific photocatalytic activity and dynamics on ultrathin g-C3N4 nanosheets.	1

31	Remarkably improved photocatalytic selective oxidation of toluene to benzaldehyde with O2 over metal-free delaminated g-C3N4 nanosheets: synergistic effect of enhanced textural properties and charge carrier separation.	0
30	Graphitic carbon nitride: An uprising carbonaceous material. **2023**, 1-14	0
29	Highly Porous Thin-Layer g-C3N4 Nanosheets with Enhanced Adsorption Capacity. **2023**, 6, 1732-1743	2
28	A Review on the Synthesis, Properties, and Characterizations of Graphitic Carbon Nitride (g-C3N4) for Energy Conversion and Storage Applications. **2023**, 101080	0
27	Uncommonly efficient degradation performance of photocatalytic ozonation towards tetracycline over synthesizing 3-D g-C3N4 nanosheet based on Si-O-Co framework. **2023**, 172, 513-522	0
26	Interface tweaking of perovskite solar cells with carbon nitride-based 2D materials. **2023**, 109, 108326	0
25	Synergic effect among activated carbon/sulphur-assisted graphitic carbon nitride for enhanced photocatalytic activity. **2023**, 135, 109836	0
24	Metal derivative (MD)/g-C3N4 association in hydrogen production: A study on the fascinating chemistry behind, current trend & future direction. **2023**, 80, 562-583	0
23	Numerous defects induced by exfoliation of boron-doped g-C3N4 towards active sites modulation for highly efficient solar-to-fuel conversion. **2023**, 22, 100359	0
22	Improved room temperature ethanol vapors sensing using silver nanoparticles decorated graphitic carbon nitride (Ag-gCN) nanocomposite. **2023**, 342, 134343	0
21	Zn0.1Cd0.9S/NiS heterojunction photocatalysts for enhanced H2 production and glucose conversion. **2023**, 626, 157237	0
20	Exploring nanoengineering strategies for the preparation of graphitic carbon nitride nanostructures. **2023**, 38, 100473	1
19	Internal electric field in carbon nitride-based heterojunctions for photocatalysis. **2023**, 108, 108228	0
18	Hydrothermal supramolecular preorganization synthesis of multi-morphological g-C3N4/Fe2O3 for photocatalytic removal of indoor formaldehyde under visible light. **2023**, 11, 109395	0
17	Heterogeneous Photocatalysis by Graphitic Carbon Nitride for Effective Hydrogen Production. **2023**, 397-415	0
16	Photocatalytic selective conversion of furfural to □butyrolactone through tetrahydrofurfuryl alcohol intermediates over Pd NP decorated g-C3N4. **2023**, 7, 1707-1723	0
15	Dual fluorescence properties and enhanced thermal stability of SrSi2O2N2:Eu2+ phosphors by coupling with g-C3N4. **2023**, 13, 6442-6452	0
14	Environmental applications of nanographitic carbon nitride. **2023**, 187-227	0

13	Comparative Studies of g-C3N4 and C3N3S3 Organic Semiconductors: Synthesis, Properties, and Application in the Catalytic Oxygen Reduction. **2023**, 28, 2469	0
12	Photocatalytic Activities of g-C3N4 (CN) Treated with Nitric Acid Vapor for the Degradation of Pollutants in Wastewater. **2023**, 16, 2177	0
11	Two-dimensional g-C3N4 nanosheets-based photo-catalysts for typical sustainable processes. **2023**, 108306	0
10	Formation of Z-scheme g-C 3 N 5 -BiOCl to enhance photocatalytic activity under visible light.	0
9	Ultrathin graphitic carbon nitride (g-C3N4) nanosheets: Synthesis, properties, and photocatalytic application. **2023**, 49, 296-301	0
8	Exfoliated g-C3N4/Fe2O3/ZnO yolk-shell nanoparticles: A novel and magnetic recyclable photocatalyst towards eco-friendly degradation of organic pollutants using visible light irradiation.	0
7	Design and development of multi-functional graphitic carbon nitride heterostructures embedded with copper and iron oxide nanoparticles as versatile sensing platforms for environmental and agricultural applications. **2023**,	0
6	Emerging Graphitic Carbon Nitride-based Nanobiomaterials for Biological Applications. **2023**, 6, 1339-1367	0
5	Two-dimensional silicon nanomaterials for optoelectronics. **2023**, 44, 041101	0
4	Steam exfoliation of graphitic carbon nitride as efficient route toward metal-free electrode materials for hydrogen production. **2023**,	0
3	Different Dimensionalities, Morphological Advancements and Engineering of g-C 3 N 4 -Based nanomaterials for Energy Conversion and Storage.	0
2	Schiff Base Derived CoPOCN for Electrocatalytic Oxygen Evolution, Urea Oxidation and Ascorbic Acid Sensing. **2023**, 59, 92-103	0
1	Tailoring the transesterification activity of MgO/oxidized g-C3N4 nanocatalyst for conversion of waste cooking oil into biodiesel. **2023**, 347, 128434	0