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Doping of graphitic carbon nitride for photocatalysis: A review

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995	Graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )-based photocatalysts for solar hydrogen generation: recent advances and future development directions. <b>2017</b> , 5, 23406-23433		358
994	Highly efficient adsorption of Congo red in single and binary water with cationic dyes by reduced graphene oxide decorated NH <sub>2</sub> -MIL-68(Al). <b>2017</b> , 247, 215-229		60
993	Highly efficient visible-light-induced photoactivity of Z-scheme Ag <sub>2</sub> CO <sub>3</sub> /Ag/WO <sub>3</sub> photocatalysts for organic pollutant degradation. <b>2017</b> , 4, 2175-2185		101
992	Functionality of surfactants in waste-activated sludge treatment: A review. <b>2017</b> , 609, 1433-1442		72
991	Recent advances in functional mesoporous graphitic carbon nitride (mpg-CN) polymers. <b>2017</b> , 9, 10544-10578		136
990	Enhanced photocatalytic property of hybrid graphitic CN and graphitic ZnO nanocomposite: the effects of interface and doping. <b>2018</b> , 30, 175001		12
989	Solar energy conversion on g-C <sub>3</sub> N <sub>4</sub> photocatalyst: Light harvesting, charge separation, and surface kinetics. <b>2018</b> , 27, 1111-1123		102
988	A selective ion replacement strategy for the synthesis of copper doped carbon nitride nanotubes with improved photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 234, 19-25	21.8	39
987	Unprecedented Centimeter-Long Carbon Nitride Needles: Synthesis, Characterization and Applications. <b>2018</b> , 14, e1800633		53
986	Enhanced photoelectrochemical performance of Z-scheme g-C <sub>3</sub> N <sub>4</sub> /BiVO <sub>4</sub> photocatalyst. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 234, 296-310	21.8	210
985	One-pot annealing preparation of Na-doped graphitic carbon nitride from melamine and organometallic sodium salt for enhanced photocatalytic H <sub>2</sub> evolution. <b>2018</b> , 43, 13953-13961		40
984	Sulfur- and Carbon-Codoped Carbon Nitride for Photocatalytic Hydrogen Evolution Performance Improvement. <b>2018</b> , 6, 7346-7354		41
983	Photocatalytic properties of copper-two dimensional graphitic carbon nitride hybrid film synthesized by pyrolysis method. <b>2018</b> , 6, 2636-2642		11
982	Insight on the plasmonic Z-scheme mechanism underlying the highly efficient photocatalytic activity of silver molybdate/silver vanadate composite in rhodamine B degradation. <b>2018</b> , 530, 493-504		28
981	Formation of quasi-core-shell In <sub>2</sub> S <sub>3</sub> /anatase TiO <sub>2</sub> @metallic Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 233, 213-225	21.8	211
980	Facile ultrasonic-assisted synthesis of microflanosheet structure Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> /g-C <sub>3</sub> N <sub>4</sub> composites with enhanced photocatalytic activity on organic pollutants. <b>2018</b> , 26, 2628-2635		9
979	Loading sulfur and nitrogen co-doped carbon dots onto g-CN nanosheets for an efficient photocatalytic reduction of 4-nitrophenol. <b>2018</b> , 47, 6435-6443		16

978	A facile and scalable route for synthesizing ultrathin carbon nitride nanosheets with efficient solar hydrogen evolution. <b>2018</b> , 136, 160-167		22
977	Effect of sacrificial agents on the dispersion of metal cocatalysts for photocatalytic hydrogen evolution. <b>2018</b> , 442, 361-367		18
976	Effective removal of high-chroma rhodamine B over Sn 0.215 In 0.38 S/reduced graphene oxide composite: Synergistic factors and mechanism of adsorption enrichment and visible photocatalytic degradation. <b>2018</b> , 329, 217-231		27
975	In-situ synthesis of direct solid-state dual Z-scheme WO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> O <sub>3</sub> photocatalyst for the degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 227, 376-385	21.8	330
974	Photogenerated charge transfer via interfacial internal electric field for significantly improved photocatalysis in direct Z-scheme oxygen-doped carbon nitrogen/CoAl-layered double hydroxide heterojunction. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 227, 530-540	21.8	152
973	Protonated graphitic carbon nitride coated metal-organic frameworks with enhanced visible-light photocatalytic activity for contaminants degradation. <b>2018</b> , 441, 85-98		64
972	Near-infrared-driven Cr(VI) reduction in aqueous solution based on a MoS <sub>2</sub> /Sb <sub>2</sub> S <sub>3</sub> photocatalyst. <b>2018</b> , 8, 1545-1554		33
971	Clay-Inspired MXene-Based Electrochemical Devices and Photo-Electrocatalyst: State-of-the-Art Progresses and Challenges. <b>2018</b> , 30, e1704561		301
970	Carbon, nitrogen and phosphorus containing metal-free photocatalysts for hydrogen production: progress and challenges. <b>2018</b> , 6, 1305-1322		125
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968	A facile strategy to fabricate hollow cadmium sulfide nanospheres with nanoparticles-textured surface for hexavalent chromium reduction and bacterial inactivation. <b>2018</b> , 514, 396-406		23
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966	Heteroatoms binary-doped hierarchical porous g-C <sub>3</sub> N <sub>4</sub> nanobelts for remarkably enhanced visible-light-driven hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 61-70	21.8	101
965	Hollow Co <sub>x</sub> Polyhedrons Act as High-Efficiency Cocatalyst for Enhancing the Photocatalytic Hydrogen Generation of g-C <sub>3</sub> N <sub>4</sub> . <b>2018</b> , 6, 2767-2779		258
964	Engineering nanoscale p-n junction via the synergetic dual-doping of p-type boron-doped graphene hybridized with n-type oxygen-doped carbon nitride for enhanced photocatalytic hydrogen evolution. <b>2018</b> , 6, 3181-3194		95
963	Construction of an all-solid-state Z-scheme photocatalyst based on graphite carbon nitride and its enhancement to catalytic activity. <b>2018</b> , 5, 599-615		143
962	The improvement of photocatalytic activity of monolayer g-CN surface charge transfer doping. <b>2018</b> , 8, 1899-1904		14
961	Amorphous tantalum oxyhydroxide homojunction: In situ construction for enhanced hydrogen production. <b>2018</b> , 525, 196-205		14

960	g-C <sub>3</sub> N <sub>4</sub> supported metal (Pd, Ag, Pt) catalysts for hydrogen-production from formic acid. <b>2018</b> , 42, 9449-9454	18
959	Multifunctional g-C <sub>3</sub> N <sub>4</sub> /graphene oxide wrapped sponge monoliths as highly efficient adsorbent and photocatalyst. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 235, 17-25	21.8 89
958	Recyclable zero-valent iron activating peroxymonosulfate synchronously combined with thermal treatment enhances sludge dewaterability by altering physicochemical and biological properties. <b>2018</b> , 262, 294-301	86
957	Decoration of Fe <sub>3</sub> O <sub>4</sub> and CoWO <sub>4</sub> nanoparticles over graphitic carbon nitride: Novel visible-light-responsive photocatalysts with exceptional photocatalytic performances. <b>2018</b> , 105, 159-171	59
956	Construction of hierarchical 2D-2D Zn <sub>3</sub> In <sub>2</sub> S <sub>6</sub> /fluorinated polymeric carbon nitride nanosheets photocatalyst for boosting photocatalytic degradation and hydrogen production performance. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 233, 58-69	21.8 155
955	Graphitic carbon nitride based nanocomposites for the photocatalysis of organic contaminants under visible irradiation: Progress, limitations and future directions. <b>2018</b> , 633, 546-559	80
954	Adsorption of pollutant cations from their aqueous solutions on graphitic carbon nitride explored by density functional theory. <b>2018</b> , 260, 423-435	14
953	Construction of network-like and flower-like 2H-MoSe <sub>2</sub> nanostructures coupled with porous g-C <sub>3</sub> N <sub>4</sub> for noble-metal-free photocatalytic H <sub>2</sub> evolution under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 233, 26-34	21.8 127
952	Polymeric carbon nitride (C <sub>3</sub> N <sub>4</sub> ) as heterogeneous photocatalyst for selective oxidation of alcohols to aldehydes. <b>2018</b> , 315, 126-137	37
951	Facile construction of novel direct solid-state Z-scheme AgI/BiOBr photocatalysts for highly effective removal of ciprofloxacin under visible light exposure: Mineralization efficiency and mechanisms. <b>2018</b> , 522, 82-94	169
950	Enhanced charge carrier separation of manganese(II)-doped graphitic carbon nitride: formation of N-Mn bonds through redox reactions. <b>2018</b> , 6, 6238-6243	29
949	Highly efficient photocatalysis toward tetracycline of nitrogen doped carbon quantum dots sensitized bismuth tungstate based on interfacial charge transfer. <b>2018</b> , 511, 296-306	92
948	Enhanced photocatalytic degradation of bisphenol A with Ag-decorated S-doped g-C <sub>3</sub> N <sub>4</sub> under solar irradiation: Performance and mechanistic studies. <b>2018</b> , 333, 739-749	143
947	Implication of graphene oxide in Cd-contaminated soil: A case study of bacterial communities. <b>2018</b> , 205, 99-106	51
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945	Insight into highly efficient removal of cadmium and methylene blue by eco-friendly magnesium silicate-hydrothermal carbon composite. <b>2018</b> , 427, 1107-1117	98
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937	Selective photocatalytic oxidation of aromatic alcohols in water by using P-doped g-C <sub>3</sub> N <sub>4</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 220, 222-233	21.8	179
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935	Boosted visible light photodegradation activity of boron doped rGO/g-C <sub>3</sub> N <sub>4</sub> nanocomposites: the role of C=O bonds. <b>2018</b> , 42, 17644-17651		12
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931	An Investigation into the Stability of Graphitic C <sub>3</sub> N <sub>4</sub> as a Photocatalyst for CO <sub>2</sub> Reduction. <b>2018</b> , 122, 28727-28738		41
930	Alkali Metal-Assisted Synthesis of Graphite Carbon Nitride with Tunable Band-Gap for Enhanced Visible-Light-Driven Photocatalytic Performance. <b>2018</b> , 6, 15503-15516		134
929	Rational Design of Carbon Nitride Materials by Supramolecular Preorganization of Monomers. <b>2018</b> , 10, 5573-5586		73
928	Immobilization of heavy metals in two contaminated soils using a modified magnesium silicate stabilizer. <b>2018</b> , 25, 32562-32571		18
927	Ultralong Nanostructured Carbon Nitride Wires and Self-Standing C-Rich Filters from Supramolecular Microspheres. <b>2018</b> , 10, 39688-39694		26
926	Performance of various catalysts on treatment of refractory pollutants in industrial wastewater by catalytic wet air oxidation: A review. <b>2018</b> , 228, 169-188		74
925	Ordered graphitic carbon nitride tubular bundles with efficient electron-hole separation and enhanced photocatalytic performance for hydrogen generation. <b>2018</b> , 566, 200-206		17

924	Carbon nitrides and metal nanoparticles: from controlled synthesis to design principles for improved photocatalysis. <b>2018</b> , 47, 7783-7817		167
923	A facile band alignment of polymeric carbon nitride isotype heterojunctions for enhanced photocatalytic tetracycline degradation. <b>2018</b> , 5, 2604-2617		80
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921	Strategies to improve metal organic frameworks photocatalyst performance for degradation of organic pollutants. <b>2018</b> , 376, 449-466		96
920	Heterogeneous Organocatalysis for Photoredox Chemistry. <b>2018</b> , 8, 9790-9808		112
919	Constructing bio-templated 3D porous microtubular C-doped g-C <sub>3</sub> N <sub>4</sub> with tunable band structure and enhanced charge carrier separation. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 236, 265-279	21.8	131
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916	Sunlight-driven water-splitting using two-dimensional carbon based semiconductors. <b>2018</b> , 6, 12876-12931		159
915	Synthesis and boosting visible light photoactivity of Ag@AgI/CdWO <sub>4</sub> towards refractory organic pollutants degradation based on interfacial charge transfer. <b>2018</b> , 454, 293-304		27
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913	Modified stannous sulfide nanoparticles with metal-organic framework: Toward efficient and enhanced photocatalytic reduction of chromium (VI) under visible light. <b>2018</b> , 530, 481-492		59
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907	New two-dimensional porous graphitic carbon nitride nanosheets for highly efficient photocatalytic hydrogen evolution under visible-light irradiation. <b>2018</b> , 8, 3846-3852		27

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905	Photoredox Catalytic Organic Transformations using Heterogeneous Carbon Nitrides. <b>2018</b> , 57, 15936-15947	215	
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897	One-step synthesis of Co-doped UiO-66 nanoparticle with enhanced removal efficiency of tetracycline: Simultaneous adsorption and photocatalysis. <b>2018</b> , 353, 126-137		227
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895	Facile constructing novel 3D porous g-C <sub>3</sub> N <sub>4</sub> /BiOBr <sub>0.2</sub> IO <sub>0.8</sub> hybrids: Efficient charge separation for visible-light photocatalysis. <b>2018</b> , 767, 241-252		10
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893	Construction of an attapulgite intercalated mesoporous g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic activity for antibiotic degradation. <b>2018</b> , 359, 102-110		36
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891	Effect of high-voltage discharge non-thermal plasma on g-C <sub>3</sub> N <sub>4</sub> in a plasma-photocatalyst system. <b>2018</b> , 39, 1672-1682		8
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889	Recent advances in synthesis, modification and photocatalytic applications of micro/nano-structured zinc indium sulfide. <b>2018</b> , 354, 407-431		92



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867	Continuous photocatalytic mitigation of indoor noxious gases over a Z-scheme g-C <sub>3</sub> N <sub>4</sub> /V <sub>2</sub> O <sub>5</sub> monolithic structure. <b>2019</b> , 161, 106235		8
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865	Less is more: Enhancement of photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> nanosheets by site-selective atomic layer deposition of TiO <sub>2</sub> . <b>2019</b> , 494, 508-518		14
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863	Persulfate enhanced visible light photocatalytic degradation of organic pollutants by construct magnetic hybrid heterostructure. <b>2019</b> , 806, 1207-1219		17
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856	Single-source-precursor-assisted synthesis of porous WO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic property. <b>2019</b> , 582, 123857		27
855	Organic dye doped graphitic carbon nitride with a tailored electronic structure for enhanced photocatalytic hydrogen production. <b>2019</b> , 9, 502-508		30
854	Graphitic Carbon Nitride Based Nanocomposites as Photoanodes. <b>2019</b> , 247-263		0
853	Excellent visible light photocatalytic efficiency of Na and S co-doped g-C <sub>3</sub> N <sub>4</sub> nanotubes for H <sub>2</sub> production and organic pollutant degradation. <b>2019</b> , 44, 31916-31929		26

852	Two-dimensional carbon nitride-based composites for photocatalytic hydrogen evolution. <b>2019</b> , 44, 30935-30946		
851	Ce-Doped Graphitic Carbon Nitride Derived from Metal Organic Frameworks as a Visible Light-Responsive Photocatalyst for H <sub>2</sub> Production. <b>2019</b> , 9,		13
850	Review on DFT calculation of s-triazine-based carbon nitride. <b>2019</b> , 1, 32-56		130
849	A DFT Study of Acetylene Hydrogenation Catalyzed by S-Doped Pd1/g-C <sub>3</sub> N <sub>4</sub> . <b>2019</b> , 9, 887		4
848	Facile and Versatile Functionalization of Two-Dimensional Carbon Nitrides by Design: Magnetism/Multiferroicity, Valleytronics, and Photovoltaics. <b>2019</b> , 29, 1905752		14
847	Photocatalytic Applications of Heterostructure Graphitic Carbon Nitride: Pollutant Degradation, Hydrogen Gas Production (water splitting), and CO Reduction. <b>2019</b> , 14, 234		47
846	Ce-doped UiO-67 nanocrystals with improved adsorption property for removal of organic dyes.. <b>2019</b> , 9, 27674-27683		18
845	Novel ternary BiOI/g-C <sub>3</sub> N <sub>4</sub> /CeO <sub>2</sub> catalysts for enhanced photocatalytic degradation of tetracycline under visible-light radiation via double charge transfer process. <b>2019</b> , 809, 151804		41
844	Nickel formate induced high-level in situ Ni-doping of g-C <sub>3</sub> N <sub>4</sub> for a tunable band structure and enhanced photocatalytic performance. <b>2019</b> , 7, 22385-22397		54
843	Structural Engineering of Graphitic Carbon Nitrides for Enhanced Metal-Free PET-RAFT Polymerizations in Heterogeneous and Homogeneous Systems. <b>2019</b> , 4, 16247-16255		20
842	Matrix-induced pre-strain and mineralization-dependent interfibrillar shear transfer enable 3D fibrillar deformation in a biogenic armour. <b>2019</b> , 100, 18-28		2
841	Graphitic Carbon Nitride Materials for Photocatalytic Hydrogen Production via Water Splitting: A Short Review. <b>2019</b> , 9, 805		26
840	Nanopore enriched hollow carbon nitride nanospheres with extremely high visible-light photocatalytic activity in the degradation of aqueous contaminants of emerging concern. <b>2019</b> , 9, 355-365		15
839	Synthesis of boron doped C <sub>3</sub> N <sub>4</sub> /NiFe <sub>2</sub> O <sub>4</sub> nanocomposite: An enhanced visible light photocatalyst for the degradation of methylene blue. <b>2019</b> , 12, 1238-1244		30
838	Fabrication of Na, Cl co-doped graphitic carbon nitride with enhanced photocatalytic activity for degradation of dyes and antibiotics. <b>2019</b> , 30, 4446-4454		14
837	A novel MoS <sub>2</sub> quantum dots (QDs) decorated Z-scheme g-C <sub>3</sub> N <sub>4</sub> nanosheet/N-doped carbon dots heterostructure photocatalyst for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 247, 124-132	21.8	148
836	Mesoporous graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) nanosheets synthesized from carbonated beverage-reformed commercial melamine for enhanced photocatalytic hydrogen evolution. <b>2019</b> , 3, 597-605		26
835	Black Phosphorus, a Rising Star 2D Nanomaterial in the Post-Graphene Era: Synthesis, Properties, Modifications, and Photocatalysis Applications. <b>2019</b> , 15, e1804565		168

834	Powerful combination of MOFs and C3N4 for enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 247, 24-48	21.8	170
833	Ultrafine silver nanoparticles deposited on sodium-doped graphitic carbon nitride towards enhanced photocatalytic degradation of dyes and antibiotics under visible light irradiation. <b>2019</b> , 476, 741-748		17
832	Conjugated Carbon Nitride as an Emerging Luminescent Material: Quantum Dots, Thin Films and Their Applications in Imaging, Sensing, Optoelectronic Devices and Photoelectrochemistry. <b>2019</b> , 3, 170-179		24
831	In Situ Preparation and Analysis of Bimetal Co-doped Mesoporous Graphitic Carbon Nitride with Enhanced Photocatalytic Activity. <b>2019</b> , 11, 10		34
830	Tunability and Scalability of Single-Atom Catalysts Based on Carbon Nitride. <b>2019</b> , 7, 5223-5230		17
829	Silver chromate modified sulfur doped graphitic carbon nitride microrod composites with enhanced visible-light photoactivity towards organic pollutants degradation. <b>2019</b> , 173, 106918		37
828	A first-principles study on the interaction of CO molecules with VIII transition metals-embedded graphitic carbon nitride as an excellent candidate for CO sensor. <b>2019</b> , 383, 2472-2480		12
827	Synthesis of Oxygen-Doped Graphitic Carbon Nitride from Thiourea. <b>2019</b> , 45, 108-110		15
826	Strong charge polarization effect enabled by surface oxidized titanium nitride for lithium-sulfur batteries. <b>2019</b> , 2,		25
825	Zn-doped tri-s-triazine crystalline carbon nitrides for efficient hydrogen evolution photocatalysis. <b>2019</b> , 582, 117118		20
824	Tin oxide quantum dots decorated graphitic carbon nitride for enhanced removal of organic components from water: Green process. <b>2019</b> , 14, 102455		12
823	Heterostructured boron doped nanodiamonds@g-C3N4 nanocomposites with enhanced photocatalytic capability under visible light irradiation. <b>2019</b> , 44, 19805-19815		18
822	Recent development in graphitic carbon nitride based photocatalysis for hydrogen generation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 257, 117855	21.8	144
821	Ag loaded B-doped-g CN nanosheet with efficient properties for photocatalysis. <b>2019</b> , 247, 57-66		25
820	The deep oxidation of NO was realized by Sr multi-site doped g-C3N4 via photocatalytic method. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 256, 117825	21.8	50
819	Visible light active metal-free photocatalysis: N-doped graphene covalently grafted with g-C3N4 for highly robust degradation of methyl orange. <b>2019</b> , 94, 99-105		13
818	One-step solvothermal synthesis of hollow Bi2WO6 photocatalyst. <b>2019</b> , 97, 2440-2446		2
817	Organic motif's functionalization via covalent linkage in carbon nitride: An exemplification in photocatalysis. <b>2019</b> , 152, 40-58		38

816	Sensitive detection of glyphosate based on a Cu-BTC MOF/g-C3N4 nanosheet photoelectrochemical sensor. <b>2019</b> , 317, 341-347	50
815	High yield synthesis of homogeneous boron doping C3N4 nanocrystals with enhanced photocatalytic property. <b>2019</b> , 489, 631-638	17
814	Photocatalytic enhancement mechanism of direct Z-scheme heterojunction O-g-C3N4@Fe-TiO2 under visible-light irradiation. <b>2019</b> , 485, 353-360	17
813	Well-dispersed CoSx nanoparticles modified tubular sulfur doped carbon nitride for enhanced photocatalytic H2 production activity. <b>2019</b> , 44, 14550-14560	23
812	Band gap tuning of g-CN via decoration with AgCl to expedite the photocatalytic degradation and mineralization of oxalic acid. <b>2019</b> , 84, 1-12	12
811	Synthesis of a reticular porous MoS2/g-C3N4 heterojunction with enhanced visible light efficiency in photocatalytic degradation of RhB. <b>2019</b> , 45, 3687-3703	13
810	Self-assembled g-C3N4 nanoarchitectures with boosted photocatalytic solar-to-hydrogen efficiency. <b>2019</b> , 487, 59-67	37
809	Green synthesis of ultrathin edge-activated foam-like carbon nitride nanosheets for enhanced photocatalytic performance under visible light irradiation. <b>2019</b> , 3, 1764-1775	12
808	Ultrafine Au nanoparticles anchored on Bi2MoO6 with abundant surface oxygen vacancies for efficient oxygen molecule activation. <b>2019</b> , 9, 3193-3202	34
807	An overview on nitride and nitrogen-doped photocatalysts for energy and environmental applications. <b>2019</b> , 172, 704-723	41
806	Photocatalytic and photo-fenton activity of iron oxide-doped carbon nitride in 3D printed and LED driven photon concentrator. <b>2019</b> , 376, 178-187	26
805	Highly efficient visible-light-driven photocatalytic activity of g-C3N4@Ag/AgVO3 composites for dye degradation and bacterial inactivation. <b>2019</b> , 380, 111866	30
804	Composites g-C3N4 and BiOIO3 for photocatalytic decomposition of N2O. <b>2019</b> , 100, 113-122	12
803	Fe, Ru, and Os-embedded graphitic carbon nitride as a promising candidate for NO gas sensor: A first-principles investigation. <b>2019</b> , 231, 264-271	13
802	Recent advances in noble metal free doped graphitic carbon nitride based nano hybrids for photocatalysis of organic contaminants in water: A review. <b>2019</b> , 15, 494-524	234
801	Construction of Schottky-type Ag-loaded fiber-like carbon nitride photocatalysts for tetracycline elimination and hydrogen evolution. <b>2019</b> , 485, 70-80	24
800	Enhancement of visible light photocatalytic hydrogen evolution by bio-mimetic C-doped graphitic carbon nitride. <b>2019</b> , 44, 13098-13105	29
799	Insight into the kinetics and mechanism of visible-light photocatalytic degradation of dyes onto the P doped mesoporous graphitic carbon nitride. <b>2019</b> , 794, 594-605	29

798	Preparation of Li-doped graphitic carbon nitride with enhanced visible-light photoactivity. <b>2019</b> , 250, 9-11		13
797	Recent Advances in Nanomaterials for Wastewater Treatment. <b>2019</b> , 21-58		6
796	Facile construction of a novel NiFe <sub>2</sub> O <sub>4</sub> @P-doped g-C <sub>3</sub> N <sub>4</sub> nanocomposite with enhanced visible-light-driven photocatalytic activity. <b>2019</b> , 1, 1864-1879		43
795	Interfacial engineering of graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )-based metal sulfide heterojunction photocatalysts for energy conversion: A review. <b>2019</b> , 40, 289-319		309
794	Facile Construction of Defect-rich Rhenium Disulfide/Graphite Carbon Nitride Heterojunction via Electrostatic Assembly for Fast Charge Separation and Photoactivity Enhancement. <b>2019</b> , 11, 1633-1642		10
793	Tuning interfacial electronic properties of carbon nitride as an efficient catalyst for ultra-deep oxidative desulfurization of fuels. <b>2019</b> , 468, 100-108		19
792	Ferroelectric enhanced Z-scheme P-doped g-C <sub>3</sub> N <sub>4</sub> /PANI/BaTiO <sub>3</sub> ternary heterojunction with boosted visible-light photocatalytic water splitting. <b>2019</b> , 43, 6753-6764		28
791	Chainmail co-catalyst of NiO shell-encapsulated Ni for improving photocatalytic CO <sub>2</sub> reduction over g-C <sub>3</sub> N <sub>4</sub> . <b>2019</b> , 7, 9726-9735		77
790	Engineering MP <sub>x</sub> (M = Fe, Co or Ni) interface electron transfer channels for boosting photocatalytic H <sub>2</sub> evolution over g-C <sub>3</sub> N <sub>4</sub> /MoS <sub>2</sub> layered heterojunctions. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 252, 250-259	21.8	112
789	Enhanced Photocatalytic Hydrogen Evolution of the Hydrogenated Deficient g-C <sub>3</sub> N <sub>4</sub> via Surface Hydrotreating. <b>2019</b> , 11, 6275-6281		11
788	Graphitic carbon nitride grown in situ on aldehyde-functionalized FeO: All-solid-state Z-scheme heterojunction for remarkable improvement of photo-oxidation activity. <b>2019</b> , 548, 284-292		19
787	Modulation of Bi MoO <sub>4</sub> -Based Materials for Photocatalytic Water Splitting and Environmental Application: a Critical Review. <b>2019</b> , 15, e1901008		104
786	Impact of remnant surface polarization on photocatalytic and antibacterial performance of BaTiO <sub>3</sub> . <b>2019</b> , 39, 2915-2922		35
785	A direct one-step synthesis of ultrathin g-C <sub>3</sub> N <sub>4</sub> nanosheets from thiourea for boosting solar photocatalytic H <sub>2</sub> evolution. <b>2019</b> , 44, 7194-7204		95
784	Composite of g-C <sub>3</sub> N <sub>4</sub> and poly(3-hexylthiophene) prepared by polymerizing thiophene-3-acetic acid treated g-C <sub>3</sub> N <sub>4</sub> and 3-hexylthiophene for enhanced photocatalytic hydrogen production. <b>2019</b> , 44, 7108-7117		14
783	In situ sulfur-doped graphitic carbon nitride nanosheets with enhanced electrogenerated chemiluminescence used for sensitive and selective sensing of l-cysteine. <b>2019</b> , 7, 2320-2329		22
782	Composites of BiVO <sub>4</sub> and g-C <sub>3</sub> N <sub>4</sub> : Synthesis, Properties and Photocatalytic Decomposition of Azo Dye AO7 and Nitrous Oxide. <b>2019</b> , 29, 1219-1234		12
781	Decoration of carbon dots over hydrogen peroxide treated graphitic carbon nitride: Exceptional photocatalytic performance in removal of different contaminants under visible light. <b>2019</b> , 374, 161-172		93

780	Photoelectrochemical and EPR features of polymeric C <sub>3</sub> N <sub>4</sub> and O-modified C <sub>3</sub> N <sub>4</sub> employed for selective photocatalytic oxidation of alcohols to aldehydes. <b>2019</b> , 328, 21-28		33
779	A review on strategies to LDH-based materials to improve adsorption capacity and photoreduction efficiency for CO <sub>2</sub> . <b>2019</b> , 386, 154-182		100
778	Sb-doped polymeric carbon nitride with charge-capture centers for efficient charge separation and photocatalytic performance in H <sub>2</sub> evolution and environmental remediation. <b>2019</b> , 9, 6627-6637		5
777	Facile synthesis of tin-doped polymeric carbon nitride with a hole-trapping center for efficient charge separation and photocatalytic hydrogen evolution. <b>2019</b> , 7, 25824-25829		10
776	Accurate K-edge X-ray photoelectron and absorption spectra of g-CN nanosheets by first-principles simulations and reinterpretations. <b>2019</b> , 21, 22819-22830		29
775	Metal-organic framework-derived heterojunctions as nanocatalysts for photocatalytic hydrogen production. <b>2019</b> , 6, 3456-3467		53
774	Photon-Induced Superior Antibacterial Activity of Palladium-Decorated, Magnetically Separable FeO/Pd/mpg-CN Nanocomposites. <b>2019</b> , 24,		7
773	. <b>2019</b> ,		2
772	Core/Shell Structure of Mesoporous Carbon Spheres and g-C <sub>3</sub> N <sub>4</sub> for Acid Red 18 Decolorization. <b>2019</b> , 9, 1007		5
771	One-step scalable synthesis of honeycomb-like g-CN with broad sub-bandgap absorption for superior visible-light-driven photocatalytic hydrogen evolution.. <b>2019</b> , 9, 32674-32682		9
770	Salt-template-assisted construction of honeycomb-like structured g-C <sub>3</sub> N <sub>4</sub> with tunable band structure for enhanced photocatalytic H <sub>2</sub> production. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 240, 64-71	21.8	89
769	Megamerger in photocatalytic field: 2D g-C <sub>3</sub> N <sub>4</sub> nanosheets serve as support of 0D nanomaterials for improving photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 240, 153-173	21.8	221
768	Synergetic transformations of multiple pollutants driven by BiVO <sub>4</sub> -catalyzed sulfite under visible light irradiation: Reaction kinetics and intrinsic mechanism. <b>2019</b> , 355, 624-636		52
767	Mesocrystals for photocatalysis: a comprehensive review on synthesis engineering and functional modifications. <b>2019</b> , 1, 34-63		49
766	In-situ synthesis of 3D microsphere-like In <sub>2</sub> S <sub>3</sub> /InVO <sub>4</sub> heterojunction with efficient photocatalytic activity for tetracycline degradation under visible light irradiation. <b>2019</b> , 356, 371-381		119
765	Exceptional photocatalytic activity for g-C <sub>3</sub> N <sub>4</sub> activated by H <sub>2</sub> O <sub>2</sub> and integrated with Bi <sub>2</sub> S <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles for removal of organic and inorganic pollutants. <b>2019</b> , 30, 524-537		36
764	Electrical promotion of spatially photoinduced charge separation via interfacial-built-in quasi-alloying effect in hierarchical Zn <sub>2</sub> In <sub>2</sub> S <sub>5</sub> /Ti <sub>3</sub> C <sub>2</sub> (O, OH) <sub>x</sub> hybrids toward efficient photocatalytic hydrogen evolution and environmental remediation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 290-301	21.8	155
763	Amorphous Carbon Nitride as a Robust Photocatalyst for Biocatalytic Solar-to-Chemical Conversion. <b>2019</b> , 7, 2545-2552		28



762	G-C3N4-based films: A rising star for photoelectrochemical water splitting. <b>2019</b> , 19, e00089		30
761	Carbon nanosheet facilitated charge separation and transfer between molybdenum carbide and graphitic carbon nitride toward efficient photocatalytic H <sub>2</sub> production. <b>2019</b> , 473, 91-101		38
760	Three-Dimensional Hierarchical g-CN Architectures Assembled by Ultrathin Self-Doped Nanosheets: Extremely Facile Hexamethylenetetramine Activation and Superior Photocatalytic Hydrogen Evolution. <b>2019</b> , 11, 2050-2059		81
759	Catalysis with Two-Dimensional Materials Confining Single Atoms: Concept, Design, and Applications. <b>2019</b> , 119, 1806-1854		442
758	Efficient degradation of tetracycline by heterogeneous cobalt oxide/cerium oxide composites mediated with persulfate. <b>2019</b> , 212, 223-232		37
757	A true oxygen-linked heptazine based polymer for efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 313-319	21.8	34
756	Tailored indium sulfide-based materials for solar-energy conversion and utilization. <b>2019</b> , 38, 1-26		80
755	Semiconductor Photocatalysis for Water Purification. <b>2019</b> , 581-651		31
754	Impact of doped metals on urea-derived g-C <sub>3</sub> N <sub>4</sub> for photocatalytic degradation of antibiotics: Structure, photoactivity and degradation mechanisms. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 475-485	21.8	112
753	The application of different typological and structural MOFs-based materials for the dyes adsorption. <b>2019</b> , 380, 471-483		203
752	Localized Surface Plasmon Resonance Enhanced Photocatalytic Hydrogen Evolution via Pt@Au NRs/C <sub>3</sub> N <sub>4</sub> Nanotubes under Visible-Light Irradiation. <b>2019</b> , 29, 1806774		86
751	Biochar as a sorbent for emerging contaminants enables improvements in waste management and sustainable resource use. <b>2019</b> , 210, 1324-1342		113
750	In-situ fabrication of needle-shaped MIL-53(Fe) with 1T-MoS <sub>2</sub> and study on its enhanced photocatalytic mechanism of ibuprofen. <b>2019</b> , 359, 254-264		114
749	Bio-inspired carbon doped graphitic carbon nitride with booming photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 246, 61-71	21.8	38
748	Strengthened spatial charge separation over Z-scheme heterojunction photocatalyst for efficient photocatalytic H <sub>2</sub> evolution. <b>2019</b> , 475, 453-461		13
747	Fabrication of TiO <sub>2</sub> (B)/Anatase Heterophase Junctions at High Temperature via Stabilizing the Surface of TiO <sub>2</sub> (B) for Enhanced Photocatalytic Activity. <b>2019</b> , 123, 1779-1789		30
746	Recent Progress on Engineering Highly Efficient Porous Semiconductor Photocatalysts Derived from Metal-Organic Frameworks. <b>2019</b> , 11, 1		188
745	Nitrogen doped carbon quantum dots promoted the construction of Z-scheme system with enhanced molecular oxygen activation ability. <b>2019</b> , 541, 123-132		32



744	Revealing the role of kapok fibre as bio-template for In-situ construction of C-doped g-C <sub>3</sub> N <sub>4</sub> @C, N co-doped TiO <sub>2</sub> core-shell heterojunction photocatalyst and its photocatalytic hydrogen production performance. <b>2019</b> , 476, 205-220	46
743	2D/2D Wg-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> composite as Adsorb and Shuttle model photocatalyst for pollution mitigation. <b>2019</b> , 370, 117-126	21
742	In situ decoration of Au nanoparticles on carbon nitride using a single-source precursor and its application for the detection of tetracycline. <b>2019</b> , 536, 646-654	22
741	Facilitating a high-performance photocatalyst for Suzuki reaction: Palladium nanoparticles immobilized on reduced graphene oxide-doped graphitic carbon nitride. <b>2019</b> , 33, e4623	6
740	Rational construction of direct Z-scheme LaMnO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> hybrid for improved visible-light photocatalytic tetracycline degradation. <b>2019</b> , 211, 882-894	50
739	Adsorption of CO <sub>2</sub> , O <sub>2</sub> , NO and CO on s-triazine-based g-C <sub>3</sub> N <sub>4</sub> surface. <b>2019</b> , 335, 117-127	37
738	Non-metal boron modified carbon nitride tube with enhanced visible light-driven photocatalytic performance. <b>2019</b> , 110, 18-23	20
737	Nitrogen self-doped g-CN nanosheets with tunable band structures for enhanced photocatalytic tetracycline degradation. <b>2019</b> , 536, 17-29	123
736	Ultrathin Carbon Nitride with Atomic-Level Intraplane Implantation of Graphited Carbon Ring Domain for Superior Photocatalytic Activity in the Visible/Near-Infrared Region. <b>2019</b> , 7, 1239-1249	35
735	Application of a photostable silver-assisted Z-scheme NiTiO <sub>3</sub> nanorod/g-C <sub>3</sub> N <sub>4</sub> nanocomposite for efficient hydrogen generation. <b>2019</b> , 44, 801-808	18
734	Facial synthesis of a novel Ag <sub>4</sub> V <sub>2</sub> O <sub>7</sub> /g-C <sub>3</sub> N <sub>4</sub> heterostructure with highly efficient photoactivity. <b>2019</b> , 102, 3897-3907	10
733	2D-Bi <sub>2</sub> MoO <sub>6</sub> /2D-g-C <sub>3</sub> N <sub>4</sub> nanosheet heterojunction composite: synthesis and enhanced visible light photocatalytic mechanism. <b>2019</b> , 52, 085302	7
732	Synthesis of Zr-based MOF nanocomposites for efficient visible-light photocatalytic degradation of contaminants. <b>2019</b> , 45, 1263-1279	20
731	A critical review on visible-light-response CeO <sub>2</sub> -based photocatalysts with enhanced photooxidation of organic pollutants. <b>2019</b> , 335, 20-30	158
730	Simultaneously engineering K-doping and exfoliation into graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) for enhanced photocatalytic hydrogen production. <b>2019</b> , 44, 778-787	33
729	Enhanced removal of lead ions from aqueous solution by iron oxide nanomaterials with cobalt and nickel doping. <b>2019</b> , 211, 1250-1258	72
728	Insight into photocatalytic activity, universality and mechanism of copper/chlorine surface dual-doped graphitic carbon nitride for degrading various organic pollutants in water. <b>2019</b> , 538, 462-473	60
727	Towards visible-light photocatalysis for environmental applications: band-gap engineering versus photons absorption-a review. <b>2019</b> , 26, 4155-4170	49

726	Extended light absorption and enhanced visible-light photocatalytic degradation capacity of phosphotungstate/polyimide photocatalyst based on intense interfacial interaction and alternate stacking structure. <b>2019</b> , 465, 125-135		14
725	Synthesis, characterization and photocatalytic performance of p-type carbon nitride. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 242, 121-131	21.8	21
724	Recent developments in fabrication and structure regulation of visible-light-driven g-C3N4-based photocatalysts towards water purification: A critical review. <b>2019</b> , 335, 65-77		239
723	Construction of LaNiO3 nanoparticles modified g-C3N4 nanosheets for enhancing visible light photocatalytic activity towards tetracycline degradation. <b>2019</b> , 211, 179-188		35
722	Nitrogen vacancies modified graphitic carbon nitride: Scalable and one-step fabrication with efficient visible-light-driven hydrogen evolution. <b>2019</b> , 358, 20-29		67
721	Sustainable treatment of harmful dyeing industry pollutants using SrZnTiO3/g-C3N4 heterostructure with a light source-dependent charge transfer mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 242, 171-177	21.8	27
720	Defects remodeling of g-C3N4 nanosheets by fluorine-containing solvothermal treatment to enhance their photocatalytic activities. <b>2019</b> , 474, 194-202		25
719	Tungsten carbide hollow spheres flexible for charge separation and transfer for enhanced visible-light-driven photocatalysis. <b>2019</b> , 194, 71-77		20
718	Facile constructing of isotype g-C3N4(bulk)/g-C3N4(nanosheet) heterojunctions through thermal polymerization of single-source glucose-modified melamine: An efficient charge separation system for photocatalytic hydrogen production. <b>2020</b> , 500, 143985		30
717	Inactivation of antibiotic resistance gene by ternary nanocomposites of carbon nitride, reduced graphene oxide and iron oxide under visible light. <b>2020</b> , 382, 122857		14
716	Nitrogen doped carbon ribbons modified g-C3N4 for markedly enhanced photocatalytic H2-production in visible to near-infrared region. <b>2020</b> , 382, 122870		126
715	Facile synthesis of silicon-doped polymeric carbon nitride with enhanced photocatalytic performance. <b>2020</b> , 815, 152488		8
714	Photocatalytic activity of N-TiO2/O-doped N vacancy g-C3N4 and the intermediates toxicity evaluation under tetracycline hydrochloride and Cr(VI) coexistence environment. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 262, 118308	21.8	186
713	Heterojunctions of halogen-doped carbon nitride nanosheets and BiOI for sunlight-driven water-splitting. <b>2019</b> , 31, 084001		14
712	Surface engineering of hollow carbon nitride microspheres for efficient photoredox catalysis. <b>2020</b> , 381, 122593		25
711	In-situ homodispersely immobilization of Ag@AgCl on chloridized g-C3N4 nanosheets as an ultrastable plasmonic photocatalyst. <b>2020</b> , 384, 123259		45
710	Bandgap engineering in graphitic carbon nitride: Effect of precursors. <b>2020</b> , 202, 163601		10
709	Biosynthesis of Ag deposited phosphorus and sulfur co-doped g-C3N4 with enhanced photocatalytic inactivation performance under visible light. <b>2020</b> , 501, 144245		28

708	An overview of graphene oxide supported semiconductors based photocatalysts: Properties, synthesis and photocatalytic applications. <b>2020</b> , 297, 111826	43
707	Visible-light photocatalytic degradation of bisphenol A using cobalt-to-oxygen doped graphitic carbon nitride with nitrogen vacancies via metal-to-ligand charge transfer. <b>2020</b> , 384, 121247	30
706	Synthesis of hierarchically mesoporous polymeric carbon nitride with mesoporous melamine as a precursor for enhanced photocatalytic performance. <b>2020</b> , 380, 122535	18
705	Modifying Crystallinity, Morphology, and Photophysical Properties of Carbon Nitride by Using Crystals as Reactants. <b>2020</b> , 60, 544-549	1
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703	Ternary adsorbent photocatalyst hybrid (APH) nanomaterials for improved abstraction of tetracycline from water. <b>2020</b> , 55, 2623-2641	4
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699	Fabrication of dual Z-scheme MIL-53(Fe)/Bi <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> ternary composite with enhanced visible light photocatalytic performance. <b>2020</b> , 232, 115959	54
698	Black Phosphorus-Based Semiconductor Heterojunctions for Photocatalytic Water Splitting. <b>2020</b> , 26, 4449-4460	20
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694	Recent advancements in two-dimensional nanomaterials for drug delivery. <b>2020</b> , 12, e1596	17
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692	Carbon microspheres work as an electron bridge for degrading high concentration MB in CoFe <sub>2</sub> O <sub>4</sub> @carbon microsphere/g-C <sub>3</sub> N <sub>4</sub> with a hierarchical sandwich-structure. <b>2020</b> , 507, 145167	18
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689	Insights into the enhanced adsorption/photocatalysis mechanism of a Bi4O5Br2/g-C3N4 nanosheet. <b>2020</b> , 821, 153557		60
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687	Synthesis, characterization and activity of doped graphitic carbon nitride materials towards photocatalytic oxidation of volatile organic pollutants emitted from 3D printer. <b>2020</b> , 391, 112355		15
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398	Photocatalytic degradation of tetracycline by Phosphorus-doped carbon nitride tube combined with peroxydisulfate under visible light irradiation. <b>2021</b> , 84, 1919-1929	
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396	Highly dispersible graphitic carbon nitride: synthesis and its 2-electron photocatalytic reduction activity of O2. <b>2021</b> , 9, 106430	0
395	The distinct role of non-noble metal Cu NPs deposition in boosting the overall photocatalytic performance over a ternary Zn-based photocatalyst system. <b>2021</b> , 875, 160068	6
394	Bactericidal efficiency and photochemical mechanisms of micro/nano bubble-enhanced visible light photocatalytic water disinfection. <b>2021</b> , 203, 117531	7
393	Defect engineering in polymeric carbon nitride photocatalyst: Synthesis, properties and characterizations. <b>2021</b> , 296, 102523	9
392	Van der waals heterostructures by single cobalt sites-anchored graphene and g-C3N4 nanosheets for photocatalytic syngas production with tunable CO/H2 ratio. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 295, 120261	21.8 15
391	ZnS-based quantum dots as photocatalysts for water purification. <b>2021</b> , 43, 102217	10
390	Silver nanoparticles supported on P, Se-codoped g-C3N4 nanosheet as a novel heterogeneous catalyst for reduction of nitroaromatics to their corresponding amines. <b>2021</b> , 1242, 130646	3
389	Enhancement of photocatalytic oxidation of benzyl alcohol by edge-functionalized modified carbon nitride: A DFT evaluation. <b>2021</b> , 419, 113452	1
388	Strategic combination of nitrogen-doped carbon quantum dots and g-C3N4: Efficient photocatalytic peroxydisulfate for the degradation of tetracycline hydrochloride and mechanism insight. <b>2021</b> , 272, 118947	23
387	g-C3N4 quantum dot decorated MoS2/Fe3O4 as a novel recoverable catalyst for photodegradation of organic pollutant under visible light. 1	2
386	Direct Z-scheme of WO3/GO decorated with silver nanoparticles for synergetic adsorption and photocatalytic activity for organic and inorganic water pollutants removal. <b>2021</b> , 564, 150410	8
385	Single molecular precursors for CxNy materials- Blending of carbon and nitrogen beyond g-C3N4. <b>2021</b> , 183, 332-354	7

384	Toward practical photoelectrochemical water splitting and CO <sub>2</sub> reduction using earth-abundant materials. <b>2021</b> , 61, 469-488	8
383	Near-infrared-activated Z-scheme NaYF <sub>4</sub> :Yb/Tm@Ag <sub>3</sub> PO <sub>4</sub> /Ag@g-C <sub>3</sub> N <sub>4</sub> photocatalyst for enhanced H <sub>2</sub> evolution under simulated solar light irradiation. <b>2021</b> , 421, 129687	21
382	Synergetic effect of interface and surface on photocatalytic performance of TiO <sub>2</sub> @ hollow CeO <sub>2</sub> core-shell nanostructures. <b>2021</b> , 566, 150602	3
381	Strategies to enhance photocatalytic activity of graphite carbon nitride-based photocatalysts. <b>2021</b> , 210, 110040	9
380	Controllable functionalization of g-C <sub>3</sub> N <sub>4</sub> mediated all-solid-state (ASS) Z-scheme photocatalysts towards sustainable energy and environmental applications. <b>2021</b> , 24, 101972	3
379	Rational copolymerization strategy engineered C self-doped g-C <sub>3</sub> N <sub>4</sub> for efficient and robust solar photocatalytic H <sub>2</sub> evolution. <b>2021</b> , 178, 757-765	47
378	Construction of efficient g-C <sub>3</sub> N <sub>4</sub> /NH <sub>2</sub> -UiO-66 (Zr) heterojunction photocatalysts for wastewater purification. <b>2021</b> , 274, 118973	16
377	Structural and compositional tuning in g-C <sub>3</sub> N <sub>4</sub> based systems for photocatalytic antibiotic degradation. <b>2021</b> , 8, 100148	7
376	Preparation and photocatalytic properties of g-C <sub>3</sub> N <sub>4</sub> /BiOCl heterojunction. <b>2021</b> , 133, 108907	7
375	Cu-doped g-CN catalyst with stable Cu and Cu for enhanced amoxicillin degradation by heterogeneous electro-Fenton process at neutral pH. <b>2021</b> , 283, 131257	11
374	Graphitic carbon nitride nanosheets incorporated with polypyrrole nanocomposite: A sensitive metal-free electrocatalyst for determination of antibiotic drug nitrofurantoin. <b>2021</b> , 629, 127433	0
373	Designing Ag <sub>2</sub> O modified g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> ternary nanocomposites for photocatalytic organic pollutants degradation performance under visible light: Synergistic mechanism insight. <b>2021</b> , 629, 127472	5
372	Metal-ion-assisted construction of cyano group defects in g-C <sub>3</sub> N <sub>4</sub> to simultaneously degrade wastewater and produce hydrogen. <b>2021</b> , 423, 130278	11
371	First-Principle study of lithium polysulfide adsorption on heteroatom doped graphitic carbon nitride for Lithium-Sulfur batteries. <b>2021</b> , 565, 150378	6
370	Pyrimidine-modified g-C <sub>3</sub> N <sub>4</sub> nanosheets for enhanced photocatalytic H <sub>2</sub> evolution. <b>2021</b> , 144, 111498	1
369	Fabricating SnO <sub>2</sub> and Cu <sub>2</sub> O anchored on g-C <sub>3</sub> N <sub>4</sub> nanocomposites for superior photocatalytic various organic pollutants degradation under simulated sunlight exposure. <b>2021</b> , 120, 108606	4
368	Fabrication of ultra-thin g-C <sub>3</sub> N <sub>4</sub> nanoplates for efficient visible-light photocatalytic H <sub>2</sub> O <sub>2</sub> production via two-electron oxygen reduction. <b>2021</b> , 425, 130615	21
367	A photo-Fenton nanocomposite ultrafiltration membrane for enhanced dye removal with self-cleaning properties. <b>2021</b> , 604, 458-468	11



- 366 A review of photocatalytic characterization, and environmental cleaning, of metal oxide nanostructured materials. **2021**, 30, e00343 4
- 365 Selective graphene-like metal-free 2D nanomaterials and their composites for photocatalysis. **2021**, 284, 131254 9
- 364 Enhanced activation of peroxymonosulfate through exfoliated oxygen-doping graphitic carbon nitride for degradation of organic pollutants. **2022**, 428, 131066 6
- 363 Exploration of photocatalytic seawater splitting on Pt/GaP-C<sub>3</sub>N<sub>4</sub> under simulated sunlight. **2022**, 572, 151346 2
- 362 Roles of alkali metal dopants and surface defects on polymeric carbon nitride in photocatalytic peroxymonosulfate activation towards water decontamination. **2022**, 424, 127292 3
- 361 Peroxymonosulfate activation by graphitic carbon nitride co-doped with manganese, cobalt, and oxygen for degradation of trichloroethylene: Effect of oxygen precursors, kinetics, and mechanism. **2022**, 278, 119580 1
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- 359 Magnetic 2D/2D oxygen doped g-CN/biochar composite to activate peroxymonosulfate for degradation of emerging organic pollutants. **2022**, 423, 127207 13
- 358 Facile one-pot synthesis of C, O-codoped nano-structured g-C<sub>3</sub>N<sub>4</sub> with superior photocatalytic hydrogen evolution. **2022**, 145, 111565 2
- 357 Role of transition metal oxides in g-C<sub>3</sub>N<sub>4</sub>-based heterojunctions for photocatalysis and supercapacitors. **2022**, 64, 214-235 15
- 356 Defective polymeric carbon nitride: Fabrications, photocatalytic applications and perspectives. **2022**, 427, 130991 14
- 355 Efficient activation of peroxydisulfate by g-CN/BiMoO nanocomposite for enhanced organic pollutants degradation through non-radical dominated oxidation processes. **2022**, 607, 684-697 7
- 354 Green and sustainable methods for dye degradation employing photocatalytic materials. **2021**, 345-376 1
- 353 Review on carbonaceous materials as persulfate activators: structure-performance relationship, mechanism and future perspectives on water treatment. **2021**, 9, 8012-8050 27
- 352 Thermodynamically stable polymorphs of nitrogen-rich carbon nitrides: a CN study. **2021**, 23, 6422-6432 2
- 351 Surface defect-rich ceria quantum dots anchored on sulfur-doped carbon nitride nanotubes with enhanced charge separation for solar hydrogen production. **2021**, 52, 51-59 15
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- 349 Green and sustainable methods of syntheses of photocatalytic materials for efficient application in dye degradation. **2021**, 167-206

348	Synergistic Doping and Surface Decoration of Carbon Nitride Macrostructures by Single Crystal Design. <b>2021</b> , 4, 1868-1875		6
347	Graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )-based nanosized heteroarrays: Promising materials for photoelectrochemical water splitting. <b>2020</b> , 2, 223-250		49
346	Molten salt synthesis of tetragonal carbon nitride hollow tubes and their application for removal of pollutants from wastewater. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 225, 307-313	21.8	97
345	From Traditional Strategies to Z-scheme Configuration in Graphitic Carbon Nitride Photocatalysts: Recent Progress and Future Challenges. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 276, 119157	21.8	67
344	Electrospun, flexible and reusable nanofiber mat of graphitic carbon nitride: Photocatalytic reduction of hexavalent chromium. <b>2020</b> , 575, 433-442		14
343	Fabrication of rGO and g-CN co-modified TiO nanotube arrays photoelectrodes with enhanced photocatalytic performance. <b>2020</b> , 577, 75-85		27
342	Scalable one-step template-free synthesis of ultralight edge-functionalized g-C <sub>3</sub> N <sub>4</sub> nanosheets with enhanced visible light photocatalytic performance. <b>2020</b> , 250, 117085		15
341	Understanding the influence of single metal (Li, Mg, Al, Fe, Ag) doping on the electronic and optical properties of g-C <sub>3</sub> N <sub>4</sub> : a theoretical study. <b>2021</b> , 47, 10-17		3
340	Latest progress in g-C <sub>3</sub> N <sub>4</sub> based heterojunctions for hydrogen production via photocatalytic water splitting: a mini review. <b>2020</b> , 2, 042003		20
339	Recent Advances in Heteroatom Doped Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) and g-C <sub>3</sub> N <sub>4</sub> /Metal Oxide Composite Photocatalysts. <b>2020</b> , 24, 673-693		7
338	Photocatalytic Partial Oxidation of 5-hydroxymethyl-2-furfural Under UV and Natural Solar Irradiation in Aqueous Suspension of K Containing C <sub>3</sub> N <sub>4</sub> . <b>2020</b> , 1, 16-29		1
337	Boron dopant simultaneously achieving nanostructure control and electronic structure tuning of graphitic carbon nitride with enhanced photocatalytic activity. <b>2021</b> , 9, 14876-14884		6
336	Graphitic carbon nitride photocatalysis: the hydroperoxyl radical role revealed by kinetic modelling.		2
335	N, P, O co-doped carbon filling into carbon nitride microtubes to promote photocatalytic hydrogen production. <b>2021</b> , 809, 151114		1
334	Facet Junction Engineering for Photocatalysis: A Comprehensive Review on Elementary Knowledge, Facet-Synergistic Mechanisms, Functional Modifications, and Future Perspectives. 2106982		11
333	An efficient and unique route for the fabrication of highly condensed oxygen-doped carbon nitride for the photodegradation of synchronous pollutants and H <sub>2</sub> O <sub>2</sub> production under ambient conditions. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 302, 120839	21.8	10
332	Near-infrared (NIR) light responsiveness of CuS/Si <sub>3</sub> N <sub>4</sub> heterojunction photocatalyst with enhanced tetracycline degradation activity. <b>2021</b> , 48, 2459-2459		2
331	Ordered and Ultralong Graphitic Carbon Nitride Nanotubes Obtained via In-Air CVD for Enhanced Photocatalytic Hydrogen Evolution.		9

330	Ionic covalent organic nanosheet anchoring discrete copper for efficient quasi-homogeneous photocatalytic proton reduction. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 302, 120817	21.8	0
329	Photocatalytic Air Purification Using Functional Polymeric Carbon Nitrides. <b>2021</b> , 8, e2102376		3
328	Emerging properties of carbon based 2D material beyond graphene. <b>2021</b> , 34,		3
327	Two dimensional graphitic carbon nitride Nanosheets as prospective material for photocatalytic degradation of nitrogen oxides. <b>2021</b> , 108650		1
326	Composites of MoS <sub>2</sub> Nanosheets and Graphitic Carbon Nitride Nanosheets for Photocatalytic Mercury Removal.		1
325	One pot synthesis of Ti and O co-doped g-C <sub>3</sub> N <sub>4</sub> : a novel composite for efficient visible-light-driven photocatalytic inactivation of <i>E. cloacae</i> .		1
324	Electrochemical Biosensor Based on Well-Dispersed Boron Nitride Colloidal Nanoparticles and DNA Aptamers for Ultrasensitive Detection of Carbendazim. <b>2021</b> , 6, 27405-27411		1
323	Benzenesulfonyl chloride-incorporated g-C <sub>3</sub> N <sub>4</sub> for photocatalytic hydrogen generation by using the hydrolysate of poly(lactic acid) as sacrificial reagent. <b>2021</b> , 628, 118397		0
322	Posttransplant Outcomes of Patients With Autosomal Dominant Polycystic Kidney Disease Versus Other Recipients: A 10-Year Report From South of Iran. <b>2018</b> , 16, 676-681		1
321	Synthesis of multilayer azagraphene and carbon nitride oxide. <b>2018</b> , 9, 393-403		4
320	Phenanthroline bridging graphitic carbon nitride framework and Fe (II) ions to promote transfer of photogenerated electrons for selective photocatalytic reduction of Nitrophenols. <b>2021</b> , 608, 2088-2099		7
319	Photocatalytic degradation of anthracene by biochar-based graphitic carbon nitride. <b>2021</b> , 1195, 012053		
318	Recent developments in architecturing the g-CN based nanostructured photocatalysts: Synthesis, modifications and applications in water treatment. <b>2021</b> , 132735		6
317	Designing of TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> coupled g-C <sub>3</sub> N <sub>4</sub> Magnetic separable ternary heterostructure composite for Efficient Z-Scheme Photo degradation process under visible light exposures. <b>2021</b> , 894, 162498		6
316	Hydrophilic and underwater superoleophobic porous graphitic carbon nitride (g-CN) membranes with photo-Fenton self-cleaning ability for efficient oil/water separation. <b>2021</b> , 608, 1960-1972		6
315	Sulfuric Acid Treated g-CN as a Precursor to Generate High-Efficient g-CN for Hydrogen Evolution from Water under Visible Light Irradiation. <b>2021</b> , 11, 37		2
314	Rapid photocatalytic inactivation of <i>E. coli</i> by polyethyleneimine grafted O-doped g-C <sub>3</sub> N <sub>4</sub> : Synergetic effects of the boosted reactive oxygen species production and adhesion performance. <b>2022</b> , 573, 151496		4
313	Green processes and sustainable materials for renewable energy production via water splitting. <b>2022</b> , 169-212		

312	Metal-free four-in-one modification of g-C <sub>3</sub> N <sub>4</sub> for superior photocatalytic CO <sub>2</sub> reduction and H <sub>2</sub> evolution. <b>2022</b> , 430, 132853	7
311	2D-2D ZnO/N doped g-CN composite photocatalyst for antibiotics degradation under visible light.. <b>2021</b> , 11, 35663-35672	1
310	Carbon nitride for photovoltaic applications. <b>2020</b> ,	0
309	The role of guanidine hydrochloride in graphitic carbon nitride synthesis. <b>2021</b> , 11, 21600	1
308	Fabrication of g-C <sub>3</sub> N <sub>4</sub> /transition metal (Fe, Co, Ni, Mn and Cr)-doped ZnO ternary composites: Excellent visible light active photocatalysts for the degradation of organic pollutants from wastewater. <b>2021</b> , 147, 111630	7
307	Geometry-tunable sulfur-doped carbon nitride nanotubes with high crystallinity for visible light nitrogen fixation. <b>2021</b> , 133412	4
306	Carbon Nitride/Metal Oxide Hybrids for Visible Light Harvesting and Water Remediation. <b>2021</b> , 53-79	2
305	Cu <sub>2</sub> O Nanoparticles: A Simple Synthesis, Characterization and Its Photocatalytic Performance toward Methylene Blue. <b>2020</b> , 61, 1868-1873	0
304	Sewage sludge-derived biochar for the adsorptive removal of wastewater pollutants: A critical review. <b>2021</b> , 293, 118581	8
303	In situ growth of g-C <sub>3</sub> N <sub>4</sub> on clay minerals of kaolinite, sepiolite, and talc for enhanced solar photocatalytic energy conversion. <b>2022</b> , 216, 106337	2
302	Phosphate group-mediated carriers transfer and energy band over carbon nitride for efficient photocatalytic H <sub>2</sub> production and removal of rhodamine B. <b>2022</b> , 895, 162772	4
301	Photocatalytic Air Decontamination from Volatile Organic Pollutants Using Graphite-Like Carbon Nitride: a Review. <b>2021</b> , 57, 237-261	1
300	Fluorinated inverse opal carbon nitride combined with vanadium pentoxide as a Z-scheme photocatalyst with enhanced photocatalytic activity. <b>2021</b> ,	1
299	Investigation of pure and g-CN loaded CdWO photocatalytic activity on reducing toxic pollutants. <b>2021</b> , 133090	1
298	In situ Raman probing of hot-electron transfer at Au-graphene interfaces with atomic layer accuracy. <b>2021</b> ,	2
297	Synthesis of N-C <sub>3</sub> N <sub>4</sub> /Cu/Cu <sub>2</sub> O: New strategy to tackle the problem of Cu <sub>2</sub> O photocorrosion with the help of band engineering. <b>2021</b> , 119871	0
296	Recent Advances in g-C N -Based Photocatalysts for Pollutant Degradation and Bacterial Disinfection: Design Strategies, Mechanisms, and Applications. <b>2021</b> , e2105089	3
295	Surface modulation and structural engineering of graphitic carbon nitride for electrochemical sensing applications. 1	10

294	In situ Raman probing of hot-electron transfer at Au-graphene interfaces with atomic layer accuracy.	1
293	Porous P, Fe-doped g-CN nanostructure with enhanced photo-Fenton activity for removal of tetracycline hydrochloride: Mechanism insight, DFT calculation and degradation pathways. <b>2021</b> , 133039	4
292	Bi@BiOx(OH) <sub>y</sub> modified oxidized g-CN photocatalytic removal of tetracycline hydrochloride with highly effective oxygen activation. <b>2021</b> , 427, 127866	4
291	Ultrathin structure of oxygen doped carbon nitride for efficient CO <sub>2</sub> photocatalytic reduction. <b>2021</b> ,	1
290	Construction of carbon dots modified hollow g-C <sub>3</sub> N <sub>4</sub> spheres via in situ calcination of cyanamide and glucose for highly enhanced visible light photocatalytic hydrogen evolution. <b>2021</b> , 47, 1568-1568	5
289	Boosting Photocatalytic Activity Using Carbon Nitride Based 2D/2D van der Waals Heterojunctions.	14
288	Black phosphorus-based heterostructures for photocatalysis and photoelectrochemical water splitting. <b>2021</b> , 67, 745-745	6
287	Graphitic Carbon Nitride for Photoelectrochemical Detection of Environmental Pollutants.	8
286	A critical review on graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )-based materials: Preparation, modification and environmental application. <b>2022</b> , 453, 214338	35
285	Recent advances in adsorptive removal and catalytic reduction of hexavalent chromium by metal-organic frameworks composites. <b>2022</b> , 347, 118274	2
284	Multi-elemental doped g-C <sub>3</sub> N <sub>4</sub> with enhanced visible light photocatalytic Activity: Insight into naproxen Degradation, Kinetics, effect of Electrolytes, and mechanism. <b>2022</b> , 282, 120089	7
283	Preparation and application of bimetallic mixed ligand MOF photocatalytic materials. <b>2022</b> , 636, 128108	4
282	Highly efficient visible light active Cu-ZnO/S-g-CN nanocomposites for efficient photocatalytic degradation of organic pollutants.. <b>2021</b> , 11, 37254-37267	2
281	An S-scheme heterojunction constructed from Fe <sub>2</sub> O <sub>3</sub> and In-doped carbon nitride for high-efficiency CO <sub>2</sub> photoreduction.	0
280	Heteroatom Modified Hybrid Carbon Quantum Dots Derived from Cucurbita pepo for the Visible Light Driven Photocatalytic Dye Degradation. 1	4
279	Recent Progress and Future Perspectives of Carbon Dots in the Detection, Degradation, and Enhancement of Drugs. 2100264	3
278	Significantly enhanced charge transfer efficiency and surface reaction on NiP <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction for photocatalytic hydrogen evolution. <b>2022</b> ,	1
277	Graphitic carbon nitride for organic transformation. <b>2022</b> , 393-456	1

276	Upconversion nanomaterials for photocatalytic applications. <b>2022</b> , 391-406	0
275	Electronic and catalytic properties of carbon nitride derivatives tuned by building blocks and linkages. <b>2022</b> , 47, 8761-8775	0
274	Photocatalytic Hydrogen Production. <b>2022</b> , 415-483	
273	Graphitic carbon nitride/antimonene van der Waals heterostructure with enhanced photocatalytic CO <sub>2</sub> reduction activity. <b>2022</b> , 116, 192-198	6
272	A brief review of s-triazine graphitic carbon nitride. 1	2
271	Identification of Active Species in Photodegradation of Aqueous Imidacloprid over g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> Nanocomposites. <b>2022</b> , 12, 120	3
270	Graphitic carbon nitride for photocatalytic hydrogen production. <b>2022</b> , 17-68	0
269	Current status, research gaps, and future scope for nanomaterials toward visible light photocatalysis. <b>2022</b> , 569-608	
268	Tunable type-II band alignment and electronic structure of C <sub>3</sub> N <sub>4</sub> /MoSi <sub>2</sub> N <sub>4</sub> heterostructure: Interlayer coupling and electric field. <b>2022</b> , 105,	9
267	Uracil-Mediated Supramolecular Assembly for C-enriched Porous Carbon Nitride with Enhanced Photocatalytic Hydrogen Evolution.	
266	Insight into the enhanced degradation mechanism of g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>5</sub> heterostructures through photocatalytic molecular oxygen activation in Van der Waals junction and excitation. <b>2022</b> , 905, 164064	5
265	Maghemite nanoparticles decorated semiconducting graphitic carbon nitride hetero-structured nanocomposite: Facile synthesis, characterizations and its visible light active photocatalytic system for removal of hazardous organic pollutants from aqueous solutions. <b>2022</b> , 641, 128427	0
264	Precursor-modified strategy to synthesize thin porous amino-rich graphitic carbon nitride with enhanced photocatalytic degradation of RhB and hydrogen evolution performances. <b>2022</b> , 43, 497-506	0
263	A review on heterogeneous photocatalysis for environmental remediation: From semiconductors to modification strategies. <b>2022</b> , 43, 178-214	45
262	Construction of single-atom Ag embedded O, K co-doped g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic efficiency for tetracycline degradation and Escherichia coli disinfection under visible light. <b>2022</b> , 352, 118655	2
261	Nitrogen-doping coupled with cerium oxide loading co-modified graphitic carbon nitride for highly enhanced photocatalytic degradation of tetracycline under visible light.. <b>2022</b> , 293, 133648	0
260	Advances in two-dimensional green materials for organic electronics applications. <b>2022</b> , 391-422	
259	Phosphorus/oxygen co-doping in hollow-tube-shaped carbon nitride for efficient simultaneous visible-light-driven water splitting and biorefinery. <b>2022</b> , 437, 135232	4

258	Enhanced visible light photocatalytic CO <sub>2</sub> reduction over direct Z-scheme heterojunction Cu/P co-doped g-C <sub>3</sub> N <sub>4</sub> @TiO <sub>2</sub> photocatalyst. 1	1
257	The Synthesis of h-BN-Modified Z-Scheme WO <sub>3</sub> /g-CN Heterojunctions for Enhancing Visible Light Photocatalytic Degradation of Tetracycline Pollutants.. 2022, 7, 6035-6045	2
256	Preparation of polymeric carbon nitride/TiO <sub>2</sub> heterostructure with NH <sub>4</sub> Cl as template: Structural and photocatalytic studies. 2022, 110629	1
255	NiS as a Cocatalyst Decorated Heptazine-/Triazine-Based Carbon Nitride Coupled with Cd <sub>0.5</sub> Zn <sub>0.5</sub> S Solid Solution Heterojunction Photocatalysts: Efficient Interfacial Charge Transfer and Enhanced Photocatalytic Hydrogen Production Activity.	0
254	Mechanistic insights into hydroxyl radical formation of Cu-doped ZnO/g-C <sub>3</sub> N <sub>4</sub> composite photocatalysis for enhanced degradation of ciprofloxacin under visible light: Efficiency, kinetics, products identification and toxicity evaluation. 2022, 10, 107352	3
253	Active site regulated Z-scheme MIL-101(Fe)/BiWO <sub>4</sub> /Fe(III) with the synergy of hydrogen peroxide and visible-light-driven photo-Fenton degradation of organic contaminants.. 2022,	1
252	Advanced Photocatalysts for Uranium Extraction: Elaborate Design and Future Perspectives.	0
251	Enhancement of photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> under solar light by Nd <sup>3+</sup> doping and HPA incorporation and its application in the degradation of ceftriaxone sodium. 1-25	0
250	Heterojunction Nanomedicine.. 2022, e2105747	8
249	Doped graphitic carbon nitride (g-CN) catalysts for efficient photodegradation of tetracycline antibiotics in aquatic environments.. 2022, 1	2
248	Environment Friendly g-C <sub>3</sub> N <sub>4</sub> -Based Catalysts and Their Recent Strategy in Organic Transformations. 2022, 56, 73-90	1
247	Piezotronic effect boosted photocatalytic performance of NiO@PbTiO <sub>3</sub> p-n heterojunction. 2022,	0
246	Layered Double Hydroxide Engineering for the Photocatalytic Conversion of Inactive Carbon and Nitrogen Molecules.	3
245	Charge carrier nonadiabatic dynamics in non-metal doped graphitic carbon nitride.. 2022, 156, 094702	4
244	Visible Light-Driven Highly Selective CO Reduction to CH <sub>4</sub> Using Potassium-Doped g-CN.. 2022,	4
243	AQ-coupled few-layered g-C <sub>3</sub> N <sub>4</sub> nanoplates obtained by one-step mechanochemical treatment for efficient visible-light photocatalytic H <sub>2</sub> O <sub>2</sub> production. 2022,	1
242	The role of the g-C <sub>3</sub> N <sub>4</sub> precursor on the P doping using HCCP as a source of phosphorus. 2022,	0
241	Synergetic piezo-photocatalytic effect in ultrathin Bi <sub>2</sub> WO <sub>6</sub> nanosheets for decomposing organic dye. 1	0



240	Photocatalytic performance of alkali metal doped graphitic carbon nitrides and Pd-alkali metal doped graphitic carbon nitride composites. <b>2022</b> , 125, 109006		1
239	Synergistic S-Scheme mechanism insights of g-C3N4 and rGO combined ZnO-Ag heterostructure nanocomposite for efficient photocatalytic and anticancer activities. <b>2022</b> , 906, 164255		3
238	Carbon and phosphorus co-doped carbon nitride hollow tube for improved photocatalytic hydrogen evolution.. <b>2022</b> , 616, 152-162		0
237	Facile synthesis of three-dimensional hollow porous carbon doped polymeric carbon nitride with highly efficient photocatalytic performance. <b>2022</b> , 438, 135623		10
236	Design and synthesis of g-C3N4/(Cu/TiO2) nanocomposite for the visible light photocatalytic degradation of endosulfan in aqueous solutions. <b>2022</b> , 1258, 132650		2
235	Upgraded charge transport in g-C3N4 nanosheets by boron doping and their heterojunction with 3D CdIn2S4 for efficient photodegradation of azo dye. <b>2022</b> , 24, 100857		
234	Interface engineering of organic-inorganic heterojunctions with enhanced charge transfer. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 309, 121261	21.8	2
233	High-efficient degradation of sulfamethazine by electro-enhanced peroxymonosulfate activation with bimetallic modified Mud sphere catalyst. <b>2022</b> , 292, 120977		0
232	Fabrication of Polyethersulfone (PES) Membrane Incorporated with Graphitic Carbon Nitride (g-C3N4) Nanoparticles in Palm Oil Mill Effluent (POME) Wastewater Treatment. <b>2021</b> , 945, 012053		
231	Surface Physicochemistry Modification and Structural Nanoarchitectures of g-C 3 N 4 for Wastewater Remediation and Solar Fuel Generation. 2100993		1
230	Regulating bandgap of graphitic carbon nitride via Mn doping for boosting visible-light-driven water reduction.		
229	Promoted Electron Transfer and Surface Absorption by Single Nickel Atoms for Photocatalytic Cross-Coupling of Aromatic Alcohols and Aliphatic Amines under Visible Light.. <b>2022</b> ,		2
228	Z-type heterojunction of graphene quantum dots/ g-C 3 N 4 / BiOCl with excellent photocatalytic performance for nitrogen fixation.		1
227	g-C3N4/TiO2 S-scheme heterojunction photocatalyst with enhanced photocatalytic Carbamazepine degradation and mineralization. <b>2022</b> , 113971		4
226	Defect engineering of BiOX (X=Cl, Br, I) based photocatalysts for energy and environmental applications: Current progress and future perspectives. <b>2022</b> , 464, 214541		3
225	Table_1.DOCX. <b>2020</b> ,		
224	Noble metal-free doped graphitic carbon nitride (g-CN) for efficient photodegradation of antibiotics: progress, limitations, and future directions.. <b>2022</b> , 1		1
223	Photocatalytic hydrogen evolution based on carbon nitride and organic semiconductors.. <b>2022</b> ,		0

222	Supramolecular Self-Assembly Coupled with Alkali Metal Molten Salts to Construct Nv-Carbon Nitride for Efficient Photocatalytic H <sub>2</sub> O <sub>2</sub> Production.	
221	Advances in Carbon Nitride-Based Materials and Their Electrocatalytic Applications. <b>2022</b> , 12, 5605-5660	3
220	ZnIn <sub>2</sub> S <sub>4</sub> -based nanostructures in artificial photosynthesis: Insights into photocatalytic reduction toward sustainable energy production.	0
219	Piezo-assisted photoelectric catalysis degradation for dyes and antibiotics by Ag dots-modified NaNbO <sub>3</sub> powders. <b>2022</b> ,	0
218	Facile One-pot Syntheses and Enhanced Photocatalytic Performances of Ternary Metal Sulfide Composite g-C <sub>3</sub> N <sub>4</sub> /Cu <sub>3</sub> SnS <sub>4</sub> .	0
217	Highly Selective Photocatalytic CO <sub>2</sub> Methanation with Water Vapor on Single-Atom Platinum-Decorated Defective Carbon Nitride.. <b>2022</b> ,	4
216	Highly Selective Photocatalytic CO <sub>2</sub> Methanation with Water Vapor on Single-Atom Platinum-Decorated Defective Carbon Nitride.	0
215	Improved Performance of Photosynthetic H <sub>2</sub> O <sub>2</sub> and Photodegradation by K-, P-, O-, and S-co-doped g-C <sub>3</sub> N <sub>4</sub> with Enhanced Charge Transfer Ability under Visible Light. <b>2022</b> , 153586	1
214	Facile synthesis of Z-scheme KBiO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> Z-scheme heterojunction photocatalysts: Structure, performance, and mechanism. <b>2022</b> , 10, 107804	1
213	Graphitic carbon nitride-based new-generation solar cells: Critical challenges, recent breakthroughs and future prospects. <b>2022</b> , 239, 74-87	0
212	Visible-light active metal nanoparticles@carbon nitride for enhanced removal of water organic pollutants. <b>2022</b> , 10, 107780	0
211	Se substituted 2D-gCN modified disposable screen-printed carbon electrode substrate: A bifunctional nano-catalyst for electrochemical and absorption study of hazardous fungicide.. <b>2022</b> , 302, 134765	2
210	Self-assembled sulphur doped carbon nitride for photocatalytic water reforming of methanol. <b>2022</b> , 445, 136790	2
209	Recent advances and application of carbon nitride framework materials in sample preparation. <b>2022</b> , 153, 116661	0
208	Electronic structure modulation of g-C <sub>3</sub> N <sub>4</sub> by Hydroxyl-grafting for enhanced photocatalytic peroxymonosulfate Activation: Combined experimental and theoretical analysis. <b>2022</b> , 294, 121246	0
207	Scope and prospect of transition metal-based cocatalysts for visible light-driven photocatalytic hydrogen evolution with graphitic carbon nitride. <b>2022</b> , 465, 214516	1
206	Selenium and nitrogen co-doped biochar as an efficient metal-free catalyst for oxidation of aldehydes. <b>2022</b> , 1264, 133237	0
205	State-of-the-art developments in carbon quantum dots (CQDs): Photo-catalysis, bio-imaging, and bio-sensing applications.. <b>2022</b> , 302, 134815	5

204	Revealing the Structure of Single Cobalt Sites in Carbon Nitride for Photocatalytic CO <sub>2</sub> Reduction.	3
203	Polymeric carbon nitride-based materials: Rising stars in bioimaging. <b>2022</b> , 114370	0
202	Recent progress in g-C <sub>3</sub> N <sub>4</sub> -based materials for remarkable photocatalytic sustainable energy. <b>2022</b> ,	0
201	Formic acid assisted Fabrication of Oxygen-doped Rod-like Carbon Nitride with Improved Photocatalytic Hydrogen Evolution. <b>2022</b> ,	0
200	Intramolecular hydroxyl nucleophilic attack pathway by a polymeric water oxidation catalyst with single cobalt sites. <b>2022</b> , 5, 414-429	6
199	Advanced photocatalysts for uranium extraction: Elaborate design and future perspectives. <b>2022</b> , 467, 214615	6
198	Evaluation of a photoelectrochemical platform based on strontium titanate, sulfur doped carbon nitride and palladium nanoparticles for detection of SARS-CoV-2 spike glycoprotein S1. <b>2022</b> , 11, 100167	0
197	Unraveling the Synergy between Anion Doping and Metal Embedding in G-C <sub>3</sub> N <sub>4</sub> Towards Enhanced Photocatalytic Rates.	
196	Highly Efficient Removal of Organic Contaminant with Wide Concentration Range by a Novel Self-Cleaning Hydrogel: Mechanism, Degradation Pathway and Dft Calculation.	
195	Enhanced visible light photocatalytic activity of the needle-like SrMoO <sub>4</sub> decorated g-C <sub>3</sub> N <sub>4</sub> heterostructure for degradation of tetracycline.	0
194	Is g-C <sub>3</sub> N <sub>4</sub> more suitable for photocatalytic reduction or oxidation in environmental applications?. <b>2022</b> ,	1
193	Porous and Few-Layer Carbon Nitride Nanosheets via Surface Steam Etching for Enhanced Photodegradation Activity.	2
192	Metal-Doped Graphitic Carbon Nitride Nanomaterials for Photocatalytic Environmental Applications: A Review. <b>2022</b> , 12, 1754	3
191	Single-Atom Catalysts for Hydrogen Generation: Rational Design, Recent Advances, and Perspectives. 2200875	5
190	Realizing high-efficiency carrier separation in 3D hierarchical carbon nitride nanosheets via intramolecular donor-acceptor motifs strategy. <b>2022</b> , 25, 100977	1
189	Constructing interfacial active sites in Ru/g-C <sub>3</sub> N <sub>4</sub> photocatalyst for boosting H <sub>2</sub> evolution coupled with selective benzyl-alcohol oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 315, 121575	21.8 4
188	Stitching Electron Localized Heptazine Units with Carbon Patches to Regulate Exciton Dissociation Behavior of Carbon Nitride for Photocatalytic Elimination of Petroleum Hydrocarbons.	
187	Borate particulate photocatalysts for photocatalytic applications: A review. <b>2022</b> ,	0

186	Phosphorus-Doped Graphitic Carbon Nitride: A Metal-Free Electrocatalyst for Quercetin Sensing in Fruit samples. <b>2022</b> , 140759	0
185	Recent Advances in Application of Graphitic Carbon Nitride-Based Catalysts for Photocatalytic Nitrogen Fixation. 2202252	3
184	Chemical reactions of graphitic carbon nitride films with glass surfaces and their impact on photocatalytic activity.	0
183	Polarization and external-field enhanced photocatalysis. <b>2022</b> ,	0
182	Adsorption and photocatalytic synergistic removal of ciprofloxacin on mesoporous ErFeO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction. <b>2022</b> , 102785	1
181	Copper sulfides based photocatalysts for degradation of environmental pollution hazards: A review on the recent catalyst design concepts and future perspectives. <b>2022</b> , 102182	1
180	Metal-free boron doped g-C <sub>3</sub> N <sub>5</sub> catalyst: efficient doping regulatory strategy for photocatalytic water splitting. <b>2022</b> , 154186	2
179	Electron Cloud Density Localized Graphitic Carbon Nitride with Enhanced Optical Absorption and Carrier Separation towards Photocatalytic Hydrogen Evolution. <b>2022</b> , 154294	1
178	Which is the photocatalytic efficiency better the g-C <sub>3</sub> N <sub>4</sub> on surface or carbon microspheres on surface in carbon microspheres/g-C <sub>3</sub> N <sub>4</sub> ?. <b>2022</b> , 131, 112698	
177	Facile synthesis of porous isotype heterojunction g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic degradation of RhB under visible light. <b>2022</b> , 128, 109227	2
176	A critical review on prospects and challenges of metal-oxide embedded g-C <sub>3</sub> N <sub>4</sub> -based direct Z-scheme photocatalysts for water splitting and environmental remediation. <b>2022</b> , 11, 100273	1
175	Edge electron-rich carbon nitride via acceptor frame with high-efficient charge separation for photocatalytic hydrogen evolution and environmental remediation. <b>2022</b> , 626, 889-898	0
174	Metal-Organic Frameworks for Wastewater Decontamination: Discovering Intellectual Structure and Research Trends. <b>2022</b> , 15, 5053	1
173	Homojunction photocatalysts for water splitting.	3
172	Mineral-Supported Photocatalysts: A Review of Materials, Mechanisms and Environmental Applications. <b>2022</b> , 15, 5607	3
171	Trace Co coupled and tourmaline doped g-C <sub>3</sub> N <sub>4</sub> for visible-light synergistic persulfate system for degradation of perfluorooctanoic acid. <b>2022</b> , 133745	0
170	A dual-functional integrated Ni <sub>5</sub> P <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> S-scheme heterojunction for high performance synchronous photocatalytic hydrogen evolution and multi-contaminant removal with a waste-to-energy conversion. <b>2022</b> , 120147	1
169	Ag <sub>2</sub> S nanoparticles anchored on P-doped g-C <sub>3</sub> N <sub>4</sub> : a novel 0D/2D p-n 2 heterojunction for superior photocatalytic inactivation of 3 multidrug-resistant E. coli.	0

- 168 Development of machine learning models to enhance element-doped g-C<sub>3</sub>N<sub>4</sub> photocatalyst for hydrogen production through splitting water. **2022**, 0
- 167 Organosilica-assisted superhydrophilic oxygen doped graphitic carbon nitride for improved photocatalytic H<sub>2</sub> evolution. **2022**, 0
- 166 Boosted spatial charge carrier separation of binary ZnFe<sub>2</sub>O<sub>4</sub>/S-g-C<sub>3</sub>N<sub>4</sub> heterojunction for visible-light-driven photocatalytic activity and antimicrobial performance. 10, 3
- 165 2D/2D Boron/g-C<sub>3</sub>N<sub>4</sub> Nanosheet Heterojunction Boosts Photocatalytic Hydrogen Evolution Performance. 0
- 164 Efficient band structure tuning of single-layer group IV-N semiconductors for visible-light-driven water splitting. **2022**, 47, 28869-28878 1
- 163 Synthesis of vacant graphitic carbon nitride in argon atmosphere and its utilization for photocatalytic hydrogen generation. **2022**, 12, 0
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- 161 Photocatalytic degradation of azo dyes in textile wastewater by Polyaniline composite catalyst-a review. **2022**, 17, e01305 0
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- 155 Design of S-scheme heterojunction catalyst based on structural defects for photocatalytic oxidative desulfurization application. **2022**, 433, 114162 0
- 154 Effect of transformation temperature toward optical properties of derived CuO/ZnO composite from Cu<sub>2</sub>Zn hydroxide nitrate for photocatalytic ciprofloxacin degradation. **2022**, 133, 112941 1
- 153 GCN decorated manganese oxide for photocatalytic degradation of methylene blue. **2022**, 145, 109949 0
- 152 Enhanced photoelectrochemical performance of P-doped g-C<sub>3</sub>N<sub>4</sub>/Zn<sub>0.5</sub>Cd<sub>0.5</sub>S heterojunction photocathode for water splitting. **2022**, 26, 101542 0
- 151 Photocatalytic degradation of COVID-19 related drug arbidol hydrochloride by Ti<sub>3</sub>C<sub>2</sub> MXene/supramolecular g-C<sub>3</sub>N<sub>4</sub> Schottky junction photocatalyst. **2022**, 308, 136461 0

150	Effects of vacancies on the electronic structures and photocatalytic properties of g-C3N4. <b>2022</b> , 206, 111483	0
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148	N/B co-doped polymeric carbon nitride with boosted charge transfer property and enhanced photocatalytic degradation of tetracycline. <b>2022</b> , 604, 154655	0
147	Enhanced support effects in single-atom copper-incorporated carbon nitride for photocatalytic suzuki cross-coupling reactions. <b>2023</b> , 320, 121954	1
146	Synthesis of a UiO-66/g-C3N4 composite using terephthalic acid obtained from waste plastic for the photocatalytic degradation of the chemical warfare agent simulant, methyl paraoxon. <b>2022</b> , 12, 22367-22376	1
145	g-C3N4/dendritic fibrous nanosilica doped with potassium for photocatalytic CO2 reduction.	1
144	Cyano Group Modified Graphitic Carbon Nitride with K Intercalation for Sustainable Photodegradation of Pharmaceutical Waste.	0
143	Facile solvothermally assisted g-C3N4 post-grafting with aromatic amine dyes for effective photocatalytic hydrogen evolution.	0
142	Visible-Light-Driven g-C3N4/TiO2 Based Heterojunction Nanocomposites for Photocatalytic Degradation of Organic Dyes in Wastewater: A Review. <b>2022</b> , 15, 117862212211172	3
141	A pñ heterostructural g-C3N4/PANI composite for the remediation of heavy metals and organic pollutants in water. <b>2022</b> , 46, 15937-15949	0
140	Hybrid 2D Nanomaterials for Photocatalytic Degradation of Wastewater Pollutants. <b>2022</b> , 101-125	1
139	In-situ construction of BiOBr/Bi2WO6 S-scheme heterojunction nanoflowers for highly efficient CO2 photoreduction: Regulation of morphology and surface oxygen vacancy. <b>2023</b> , 452, 139493	0
138	Recent Advances of Doping and Surface Modifying Carbon Nitride with Characterization Techniques. <b>2022</b> , 12, 962	4
137	Recent Advances of Bismuth Halide Based Nanomaterials for Photocatalytic Antibacterial and Photodynamic Therapy. <b>2022</b> , 9, 2200704	2
136	Coupling In-plane Electrons with Oxygen-Heteroatom in Ultrathin g-C3N4 Nanosheets for Markedly Improved Photodegradation Activity.	0
135	Spatially Band Separation in Surface Doped Heterolayered Structure for Realizing Efficient Singlet Oxygen Generation. 2206516	0
134	Hollow Mo2C nanospheres modified B-doped g-C3N4 for high efficient photocatalysts. <b>2022</b> , 55, 454001	0
133	Construction of amorphous carbon-coated alpha-Fe2O3 core-shell nanostructure for efficient photocatalytic performance. <b>2022</b> , 33, 22549-22559	1

- 132 Graphite carbon nitride loaded nitrogen-doped carbon and cobalt nanoparticles ternary photocatalyst for enhanced solar-driven hydrogen evolution. **2022**, 0
- 131 Fabrication of Cr-ZnFe<sub>2</sub>O<sub>4</sub>/S-g-C<sub>3</sub>N<sub>4</sub> Heterojunction Enriched Charge Separation for Sunlight Responsive Photocatalytic Performance and Antibacterial Study. **2022**, 27, 6330 1
- 130 Designing and Fabricating a Vulcanized ZnAl LDH-Modified g-C<sub>3</sub>N<sub>4</sub> Heterojunction for Enhanced Visible-Light-Driven Photocatalytic Degradation Activity. 0
- 129 Lead-Free Cs<sub>3</sub>Bi<sub>2</sub>Br<sub>9</sub> Perovskite In-situ Growth on 3D Flower-like g-C<sub>3</sub>N<sub>4</sub> Microspheres to Improve Photocatalytic Performance. **2022**, 139662 0
- 128 Controllable Fabrication and Enhanced Photocatalysis of Cu<sub>2</sub>O NP@g-C<sub>3</sub>N<sub>4</sub> NT Composite on Visible-Light-Driven Degradation of Organic Dyes in Water. **2022**, 100239 0
- 127 Environmental remediation and sustainable energy generation via photocatalytic technology using rare earth metals modified g-C<sub>3</sub>N<sub>4</sub>: A review. **2022**, 167469 2
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- 124 Photosynthesis of hydrogen peroxide in water: a promising on-site strategy for water remediation. 0
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- 121 Engineering doping and defect in graphitic carbon nitride by one-pot method for enhanced photocatalytic hydrogen evolution. **2022**, 1
- 120 Use of Heteroatom-Doped g-C<sub>3</sub>N<sub>4</sub> Particles as Catalysts for Dehydrogenation of Sodium Borohydride in Methanol. **2022**, 8, 53 0
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114	K <sub>2</sub> Na Synergetic Modified g-C <sub>3</sub> N <sub>4</sub> for Efficient Photocatalytic NO Removal with Low-NO <sub>2</sub> -Emission.	0
113	Freeze-drying synthesis of O,NiF <sub>3</sub> with enhanced photocatalytic oxygen evolution. <b>2022</b> ,	0
112	A Targeted Review of Current Progress, Challenges and Future Perspective of g-C <sub>3</sub> N <sub>4</sub> based Hybrid Photocatalyst Toward Multidimensional Applications.	0
111	Adsorption and Degradation of Volatile Organic Compounds by Metal-Organic Frameworks (MOFs): A Review. <b>2022</b> , 15, 7727	1
110	Single-atomic Co-N <sub>4</sub> -O site boosting exciton dissociation and hole extraction for improved photocatalytic hydrogen evolution in crystalline carbon nitride. <b>2022</b> , 104, 107938	1
109	An overview of the current progress of graphitic carbon nitride and its multifunctional applications. <b>2022</b> , 10, 108745	0
108	Photocatalytic hydrogen peroxide evolution: What is the most effective strategy?. <b>2022</b> , 104, 107906	0
107	Post-synthetic modification of graphitic carbon nitride with PCl <sub>3</sub> and POCl <sub>3</sub> for enhanced photocatalytic degradation of organic compounds. <b>2022</b> , 130, 109439	0
106	Boosting surface charge transfer by aldehyde group grafted on loofah-sponge-like carbon nitride for visible light H <sub>2</sub> evolution. <b>2023</b> , 609, 155227	0
105	Heterojunction photocatalysts for the removal of nitrophenol: A systematic review. <b>2023</b> , 310, 136853	0
104	Aminobenzaldehyde covalently modified graphitic carbon nitride photocatalyst through Schiff base reaction: Regulating electronic structure and improving visible-light-driven photocatalytic activity for moxifloxacin degradation. <b>2023</b> , 630, 867-878	1
103	Facile synthesis of direct Z-scheme UiO-66-NH <sub>2</sub> /Ph <sub>2</sub> Cu heterojunction with ultrahigh redox potential for enhanced photocatalytic Cr(VI) reduction and NOR degradation. <b>2023</b> , 443, 130195	1
102	Magnetic Ni <sub>2</sub> Zn ferrite anchored on g-C <sub>3</sub> N <sub>4</sub> as nano-photocatalyst for efficient photo-degradation of doxycycline from water <b>2023</b> , 216, 114665	0
101	Advancing charge carriers separation and transformation by nitrogen self-doped hollow nanotubes g-C <sub>3</sub> N <sub>4</sub> for enhancing photocatalytic degradation of organic pollutants. <b>2023</b> , 312, 137145	0
100	Effective mineralization and detoxification of tetracycline hydrochloride enabled by oxygen vacancies in g-C <sub>3</sub> N <sub>4</sub> / LDH composites. <b>2023</b> , 305, 122554	0
99	Removal of tetracycline from wastewater using g-C <sub>3</sub> N <sub>4</sub> based photocatalysts: A review. <b>2023</b> , 216, 114660	2
98	Electron rich P doped g-C <sub>3</sub> N <sub>4</sub> for photodegradation of 2,4-dichlorophenoxyacetic acid under visible light by improving oxygen adsorption: Performance and catalytic mechanism. <b>2023</b> , 306, 122562	0
97	A comparative review on adsorption and photocatalytic degradation of classified dyes with metal/non-metal-based modification of graphitic carbon nitride nanocomposites: Synthesis, mechanism, and affecting parameters. <b>2022</b> , 134967	0

96	Investigation on synthesis of ternary g-C <sub>3</sub> N <sub>4</sub> /ZnO/W/M nanocomposites integrated heterojunction II as efficient photocatalyst for environmental applications. <b>2022</b> , 114621	2
95	Quantitatively regulating the ketone structure of triazine-based covalent organic frameworks for efficient visible-light photocatalytic degradation of organic pollutants: tunable performance and mechanisms. <b>2022</b> , 130366	0
94	Multilevel reconstruction of g-C <sub>3</sub> N <sub>4</sub> nanorings via natural pollen for remarkable photocatalysis. <b>2022</b> , 100267	1
93	An ultra-porous g-C <sub>3</sub> N <sub>4</sub> micro-tube coupled with MXene (Ti <sub>3</sub> C <sub>2</sub> TX) nanosheets for efficient degradation of organics under natural sunlight. <b>2022</b> ,	0
92	Engineering of g-C <sub>3</sub> N <sub>4</sub> -Based Photocatalysts for Enhanced Hydrogen Evolution from Water Splitting. <b>2022</b> ,	0
91	The Synergistic Effect of Adsorption-Photocatalysis for Removal of Organic Pollutants on Mesoporous Cu <sub>2</sub> V <sub>2</sub> O <sub>7</sub> /Cu <sub>3</sub> V <sub>2</sub> O <sub>8</sub> /g-C <sub>3</sub> N <sub>4</sub> Heterojunction. <b>2022</b> , 23, 14264	3
90	Selected dechlorination of triclosan by high-performance g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> MoO <sub>6</sub> composites: Mechanisms and pathways. <b>2022</b> , 137247	0
89	Cyano group modified graphitic carbon nitride with K intercalation for sustainable photodegradation of pharmaceutical waste. <b>2023</b> , 142, 104617	0
88	Metal-organic framework-derived semiconductors for photocatalytic hydrogen production.	1
87	Recent advances and applications of Bi <sub>2</sub> S <sub>3</sub> -based composites in photoelectrochemical sensors and biosensors. <b>2023</b> , 158, 116876	0
86	Flexible Bi <sub>2</sub> MoO <sub>6</sub> /S-C <sub>3</sub> N <sub>4</sub> /PAN heterojunction nanofibers made from electrospinning and solvothermal route for boosting visible-light photocatalytic performance. <b>2023</b> , 612, 155893	0
85	Synthesis and modification of ultrathin g-C <sub>3</sub> N <sub>4</sub> for photocatalytic energy and environmental applications. <b>2023</b> , 173, 113110	1
84	Boosting the photogenerated charge separation of g-C <sub>3</sub> N <sub>4</sub> by constructing a Ni@Ni <sub>2</sub> P cocatalyst with a core-shell structure. <b>2022</b> , 46, 23379-23385	0
83	Ultrathin origami accordion-like structure of vacancy-rich graphitized carbon nitride for enhancing CO <sub>2</sub> photoreduction.	0
82	A template co-pyrolysis strategy towards the increase of amino/imino content within g-C <sub>3</sub> N <sub>4</sub> for efficient CO <sub>2</sub> photoreduction. <b>2022</b> , 140630	0
81	C <sub>3</sub> N <sub>4</sub> /reduced graphene oxide photocatalysts loaded with Ag or Ag/Pt for H <sub>2</sub> evolution from aqueous solution of triethanolamine. <b>2022</b> ,	1
80	Perovskite Catalysts for Oxygen Evolution and Reduction Reactions in Zinc-Air Batteries. <b>2022</b> , 12, 1490	0
79	Controllable adsorption groups on amine-functionalized carbon nitride for enhanced photocatalytic CO <sub>2</sub> reduction. <b>2022</b> , 140746	0

78	Non-Metal-Doped Porous Carbon Nitride Nanostructures for Photocatalytic Green Hydrogen Production. <b>2022</b> , 23, 15129	1
77	Facile Construction of Carbon Doped Carbon Nitride Tube With Increased Electron Density for Highly Efficient Hydrogen Production. <b>2022</b> , 130872	0
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73	Engineering g-C <sub>3</sub> N <sub>4</sub> based materials for advanced photocatalysis: Recent advances. <b>2022</b> ,	0
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71	The Collision between g-C <sub>3</sub> N <sub>4</sub> and QDs in the Fields of Energy and Environment: Synergistic Effects for Efficient Photocatalysis. 2205902	1
70	Graphitic Carbon Nitride-based Nanostructures as Emergent Catalysts for Carbon Monoxide (CO) Oxidation.	0
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