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**Ionothermal synthesis of crystalline, condensed, graphitic carbon nitride**

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#	Paper	IF	Citations
932	Carbon nitride: Ab initio investigation of carbon-rich phases. <b>2009</b> , 80,		47
931	Mesoporous, 2D Hexagonal Carbon Nitride and Titanium Nitride/Carbon Composites. <b>2009</b> , 21, 4270-4274		276
930	Graphitic carbon nitride C <sub>6</sub> N <sub>9</sub> H <sub>3</sub> ·HCl: Characterisation by UV and near-IR FT Raman spectroscopy. <b>2009</b> , 182, 2670-2677		72
929	Rb <sub>3</sub> [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ]·BH <sub>2</sub> O and Cs <sub>3</sub> [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ]·BH <sub>2</sub> O [Synthesis, Crystal Structure and Thermal Behavior of Two Novel Alkali Melonates. <b>2009</b> , 635, 2197-2202		17
928	Photodegradation performance of g-C <sub>3</sub> N <sub>4</sub> fabricated by directly heating melamine. <b>2009</b> , 25, 10397-401		2067
927	A comparative study of SiO <sub>2</sub> films on different substrates grown by RF magnetron sputtering. <b>2009</b> , 478, 474-478		21
926	Activation of carbon nitride solids by protonation: morphology changes, enhanced ionic conductivity, and photoconduction experiments. <b>2009</b> , 131, 50-1		640
925	First principles study of C <sub>3</sub> N <sub>4</sub> carbon nitride nanotubes. <b>2009</b> , 19, 3020		46
924	Corrugated layered heptazine-based carbon nitride: the lowest energy modifications of C <sub>3</sub> N <sub>4</sub> ground state. <b>2009</b> , 19, 3013		101
923	Structure elucidation of polyheptazine imide by electron diffraction--a templated 2D carbon nitride network. <b>2009</b> , 1541-3		88
922	Nanostructured poly(benzimidazole): from mesoporous networks to nanofibers. <b>2010</b> , 3, 181-7		25
921	Facile one-pot synthesis of nanoporous carbon nitride solids by using soft templates. <b>2010</b> , 3, 435-9		285
920	Fluidic carbon precursors for formation of functional carbon under ambient pressure based on ionic liquids. <b>2010</b> , 22, 1004-7		281
919	Rational extension of the family of layered, covalent, triazine-based frameworks with regular porosity. <b>2010</b> , 22, 2202-5		383
918	Boron- and Fluorine-Containing Mesoporous Carbon Nitride Polymers: Metal-Free Catalysts for Cyclohexane Oxidation. <b>2010</b> , 122, 3428-3431		87
917	Cubic Mesoporous Graphitic Carbon(IV) Nitride: An All-in-One Chemosensor for Selective Optical Sensing of Metal Ions. <b>2010</b> , 122, 9900-9904		41
916	Boron- and fluorine-containing mesoporous carbon nitride polymers: metal-free catalysts for cyclohexane oxidation. <b>2010</b> , 49, 3356-9		586

915	Cubic mesoporous graphitic carbon(IV) nitride: an all-in-one chemosensor for selective optical sensing of metal ions. <b>2010</b> , 49, 9706-10	253
914	The impact of urea on the performance of metal exchanged zeolites for the selective catalytic reduction of NO <sub>x</sub> Part I. Pyrolysis and hydrolysis of urea over zeolite catalysts. <b>2010</b> , 97, 90-97	86
913	Ionothermal Route to Layered Two-Dimensional Polymer-Frameworks Based on Heptazine Linkers. <b>2010</b> , 43, 6639-6645	56
912	A detailed view on the polycondensation of ionic liquid monomers towards nitrogen doped carbon materials. <b>2010</b> , 20, 6746	222
911	The use of ionic liquids in the synthesis of zinc imidazolate frameworks. <b>2010</b> , 39, 1758-62	46
910	Graphitic carbon nitride as a metal-free catalyst for NO decomposition. <b>2010</b> , 46, 6965-7	157
909	Nitrogen-rich carbon nitride hollow vessels: synthesis, characterization, and their properties. <b>2010</b> , 114, 9429-34	211
908	New directions in carbonitride research: synthesis of resin-like dense-packed C <sub>3</sub> N <sub>4</sub> using a hydrogen-free precursor. <b>2010</b> , 20, 4183	39
907	Cyanogen isocyanate (NCNCO) revisited: thermal and chemical reactivity of a hydrogen-free precursor to C <sub>3</sub> N <sub>4</sub> polymers. <b>2010</b> , 20, 110-116	12
906	Photodegradation of rhodamine B and methyl orange over boron-doped g-C <sub>3</sub> N <sub>4</sub> under visible light irradiation. <b>2010</b> , 26, 3894-901	1348
905	Developing a polymeric semiconductor photocatalyst with visible light response. <b>2010</b> , 46, 7325-7	116
904	Tackling the stacking disorder of melon-structure elucidation in a semicrystalline material. <b>2010</b> , 12, 2227-37	55
903	First-Principles Study of the Adsorption of Water on Tri-s-triazine-based Graphitic Carbon Nitride. <b>2010</b> , 49, 115703	50
902	Solvothermal synthesis of carboxyl and amido functionalized mesoporous resins for water treatments. <b>2010</b> , 20, 4609-4614	30
901	Melem- and melamine-derived iminophosphoranes. <b>2010</b> , 34, 1893	21
900	Boron and nitrogen-rich carbons from ionic liquid precursors with tailorable surface properties. <b>2011</b> , 13, 13486-91	85
899	Synthesis of bulk and nanoporous carbon nitride polymers from ammonium thiocyanate for photocatalytic hydrogen evolution. <b>2011</b> , 21, 13032	353
898	Experimental study on the stability of graphitic C <sub>3</sub> N <sub>4</sub> under high pressure and high temperature. <b>2011</b> , 20, 819-825	42

897	Simple pyrolysis of urea into graphitic carbon nitride with recyclable adsorption and photocatalytic activity. <b>2011</b> , 21, 14398	1136
896	Efficient synthesis of polymeric g-C <sub>3</sub> N <sub>4</sub> layered materials as novel efficient visible light driven photocatalysts. <b>2011</b> , 21, 15171	825
895	Preparation and Enhanced Visible-Light Photocatalytic H <sub>2</sub> -Production Activity of Graphene/C <sub>3</sub> N <sub>4</sub> Composites. <b>2011</b> , 115, 7355-7363	1511
894	Sulfur-mediated synthesis of carbon nitride: Band-gap engineering and improved functions for photocatalysis. <b>2011</b> , 4, 675-678	624
893	Hydrogen production using zinc-doped carbon nitride catalyst irradiated with visible light. <b>2011</b> , 12, 034401	242
892	Acid-driven, microwave-assisted production of photoluminescent carbon nitride dots from N,N-dimethylformamide. <b>2011</b> , 1, 951	71
891	Direct conversion of urea into graphitic carbon nitride over mesoporous TiO <sub>2</sub> spheres under mild condition. <b>2011</b> , 47, 1066-8	140
890	Preparation of photoluminescent carbon nitride dots from CCl <sub>4</sub> and 1,2-ethylenediamine: a heat-treatment-based strategy. <b>2011</b> , 21, 11726	163
889	Polymeric Frameworks: Toward Porous Semiconductors. <b>2011</b> , 119-154	3
888	g-C <sub>3</sub> N <sub>4</sub> /SiO <sub>2</sub> /Nb <sub>2</sub> O <sub>5</sub> composites with enhanced photocatalytic activities for rhodamine B degradation under visible light. <b>2011</b> , 345, 90-95	28
887	Visible Light Photocatalysis of BiOI and Its Photocatalytic Activity Enhancement by in Situ Ionic Liquid Modification. <b>2011</b> , 115, 14300-14308	249
886	Boron carbon nitride nanostructures from salt melts: tunable water-soluble phosphors. <b>2011</b> , 133, 7121-7	360
885	Condensed Graphitic Carbon Nitride Nanorods by Nanoconfinement: Promotion of Crystallinity on Photocatalytic Conversion. <b>2011</b> , 23, 4344-4348	348
884	Photodegradation performance of methylene blue aqueous solution on Ag/g-C <sub>3</sub> N <sub>4</sub> catalyst. <b>2011</b> , 30, 276-279	36
883	Copper(II) Melonates Cu <sub>3</sub> [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ] <sub>2</sub> ·4H <sub>2</sub> O and [Cu(C <sub>2</sub> H <sub>8</sub> N <sub>2</sub> ) <sub>2</sub> ] <sub>3</sub> [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ] <sub>2</sub> ·4H <sub>2</sub> O Using the Terminal Cyano Group of the [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ] <sub>3</sub> Ion for Complexation. <b>2011</b> , 637, 2246-2251	7
882	Poly(triazine imide) with intercalation of lithium and chloride ions [(C <sub>3</sub> N <sub>3</sub> ) <sub>2</sub> (NH(x)Li(1-x)) <sub>3</sub> LiCl]: a crystalline 2D carbon nitride network. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 3213-21	4.8 233
881	Preparation of a semiconductive compound obtained by the pyrolysis of urea under N <sub>2</sub> and the photocatalytic property under visible light irradiation. <b>2011</b> , 161, 41-45	19
880	New insights into the structure and chemistry of Titanian tholins via <sup>13</sup> C and <sup>15</sup> N solid state nuclear magnetic resonance spectroscopy. <b>2012</b> , 221, 844-853	35

879	Graphitic carbon nitride materials: controllable synthesis and applications in fuel cells and photocatalysis. <b>2012</b> , 5, 6717	1385
878	Construction of Conjugated Carbon Nitride Nanoarchitectures in Solution at Low Temperatures for Photoredox Catalysis. <b>2012</b> , 124, 11984-11988	98
877	Construction of conjugated carbon nitride nanoarchitectures in solution at low temperatures for photoredox catalysis. <b>2012</b> , 51, 11814-8	460
876	Theoretical and experimental study on narrowing the band gap of carbon nitride photocatalyst by coupling a wide gap molecule. <b>2012</b> , 550, 175-180	15
875	Simultaneous sensitization and hole activation in carbon nitride polymer sensitized TiO <sub>2</sub> . <b>2012</b> , 2, 5585	16
874	A molten-salt route for synthesis of Si and Ge nanoparticles: chemical reduction of oxides by electrons solvated in salt melt. <b>2012</b> , 22, 5454	60
873	Tunable magnetic states in hexagonal boron nitride sheets. <b>2012</b> , 101, 132405	25
872	Density functional theory-based analysis on O <sub>2</sub> molecular interaction with the tri-s-triazine-based graphitic carbon nitride. <b>2012</b> , 606, 892-901	48
871	Synthesis of Carbon Nitride Semiconductors in Sulfur Flux for Water Photoredox Catalysis. <b>2012</b> , 2, 940-948	337
870	Band gap of C <sub>3</sub> N <sub>4</sub> in the GW approximation. <b>2012</b> , 37, 11072-11080	148
869	Polymeric Graphitic Carbon Nitride for Heterogeneous Photocatalysis. <b>2012</b> , 2, 1596-1606	1256
868	A general strategy for the production of photoluminescent carbon nitride dots from organic amines and their application as novel peroxidase-like catalysts for colorimetric detection of H <sub>2</sub> O <sub>2</sub> and glucose. <b>2012</b> , 2, 411-413	179
867	Organic-inorganic composite of g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> :Rh photocatalyst for improved H <sub>2</sub> evolution under visible light irradiation. <b>2012</b> , 37, 11602-11610	100
866	Facile transformation of low cost thiourea into nitrogen-rich graphitic carbon nitride nanocatalyst with high visible light photocatalytic performance. <b>2012</b> , 2, 1332	205
865	Two-Dimensional Polymers. <b>2012</b> , 841-900	1
864	A Strategy of Enhancing the Photoactivity of g-C <sub>3</sub> N <sub>4</sub> via Doping of Nonmetal Elements: A First-Principles Study. <b>2012</b> , 116, 23485-23493	471
863	Nonlinear optical properties of carbon nitride nanotubes. <b>2012</b> , 14, 835-9	17
862	Photocatalytic Synthesis of Phenol by Direct Hydroxylation of Benzene by a Modified Nanoporous Silica (LUS-1) under Sunlight. <b>2012</b> , 33, 1347-1353	15

861	Tunable optical transition in polymeric carbon nitrides synthesized via bulk thermal condensation. <b>2012</b> , 24, 162201	46
860	Nitrogen Vacancy-Promoted Photocatalytic Activity of Graphitic Carbon Nitride. <b>2012</b> , 116, 11013-11018	464
859	Economical, green synthesis of fluorescent carbon nanoparticles and their use as probes for sensitive and selective detection of mercury(II) ions. <b>2012</b> , 84, 5351-7	842
858	Porous, fluorescent, covalent triazine-based frameworks via room-temperature and microwave-assisted synthesis. <b>2012</b> , 24, 2357-61	504
857	Synthesis of nitrogen-rich mesoporous carbon nitride with tunable pores, band gaps and nitrogen content from a single aminoguanidine precursor. <b>2012</b> , 5, 700-8	117
856	Silver Melonates and Coordination Modes of the Multidentate [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ] <sup>3-</sup> Anion. <b>2012</b> , 2012, 978-986	4
855	Hydrothermal treatment of grass: a low-cost, green route to nitrogen-doped, carbon-rich, photoluminescent polymer nanodots as an effective fluorescent sensing platform for label-free detection of Cu(II) ions. <b>2012</b> , 24, 2037-41	1151
854	Polymeres graphitisches Kohlenstoffnitrid als heterogener Organokatalysator: von der Photochemie über die Vielzweckkatalyse hin zur nachhaltigen Chemie. <b>2012</b> , 124, 70-92	227
853	Polymeric graphitic carbon nitride as a heterogeneous organocatalyst: from photochemistry to multipurpose catalysis to sustainable chemistry. <b>2012</b> , 51, 68-89	2479
852	Salt melt synthesis of ceramics, semiconductors and carbon nanostructures. <b>2013</b> , 42, 8237-65	384
851	Tri-s-triazines (s-heptazines) from a mystery molecule to industrially relevant carbon nitride materials. <b>2013</b> , 257, 2032-2062	174
850	Engineering the nanoarchitecture and texture of polymeric carbon nitride semiconductor for enhanced visible light photocatalytic activity. <b>2013</b> , 401, 70-9	260
849	H <sub>2</sub> and O <sub>2</sub> Evolution from Water Half-Splitting Reactions by Graphitic Carbon Nitride Materials. <b>2013</b> , 117, 7178-7185	324
848	Ascorbic acid assisted green route for synthesis of water dispersible carbon dots. <b>2013</b> , 29, 401-403	16
847	Materials from Extreme Conditions. <b>2013</b> , 17-46	4
846	Synthesis and photocatalytic performance of europium-doped graphitic carbon nitride. <b>2013</b> , 31, 1085-1091	54
845	Triazine-based carbon nitrides for visible-light-driven hydrogen evolution. <b>2013</b> , 52, 2435-9	332
844	Hydrothermal synthesis of graphitic carbon nitride-Bi <sub>2</sub> WO <sub>6</sub> heterojunctions with enhanced visible light photocatalytic activities. <b>2013</b> , 5, 7079-85	400

843	In situ construction of g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> metal-free heterojunction for enhanced visible-light photocatalysis. <b>2013</b> , 5, 11392-401	872
842	Turn-on persistent luminescence probe based on graphitic carbon nitride for imaging detection of biothiols in biological fluids. <b>2013</b> , 85, 11876-84	184
841	Facile fabrication of highly efficient g-C <sub>3</sub> N <sub>4</sub> /Ag <sub>2</sub> O heterostructured photocatalysts with enhanced visible-light photocatalytic activity. <b>2013</b> , 5, 12533-40	456
840	Natural leaves-assisted synthesis of nitrogen-doped, carbon-rich nanodots-sensitized, Ag-loaded anatase TiO <sub>2</sub> square nanosheets with dominant {001} facets and their enhanced catalytic applications. <b>2013</b> , 1, 14963	64
839	Three-dimensional macroscopic assemblies of low-dimensional carbon nitrides for enhanced hydrogen evolution. <b>2013</b> , 52, 11083-7	229
838	Preparation of graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )/WO <sub>3</sub> composites and enhanced visible-light-driven photodegradation of acetaldehyde gas. <b>2013</b> , 260, 475-82	220
837	Three-Dimensional Macroscopic Assemblies of Low-Dimensional Carbon Nitrides for Enhanced Hydrogen Evolution. <b>2013</b> , 125, 11289-11293	102
836	Molecule-induced gradient electronic potential distribution on a polymeric photocatalyst surface and improved photocatalytic performance. <b>2013</b> , 1, 5142	29
835	Tuning of gallery heights in a crystalline 2D carbon nitride network. <b>2013</b> , 1, 1102-1107	79
834	Photophysics of polymeric carbon nitride: An optical quasimonomer. <b>2013</b> , 87,	98
833	Novel C <sub>3</sub> N <sub>4</sub> /CdS composite photocatalysts with organic/inorganic heterojunctions: in situ synthesis, exceptional activity, high stability and photocatalytic mechanism. <b>2013</b> , 1, 3083	417
832	Large scale boron carbon nitride nanosheets with enhanced lithium storage capabilities. <b>2013</b> , 49, 352-4	94
831	Synthesis and photocatalytic activity of poly(triazine imide). <b>2013</b> , 8, 218-24	108
830	Highly Selective Synthesis of Phenol from Benzene over a Vanadium-Doped Graphitic Carbon Nitride Catalyst. <b>2013</b> , 5, 192-200	120
829	Tungsten carbide nanoparticles as efficient cocatalysts for photocatalytic overall water splitting. <b>2013</b> , 6, 168-81	166
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826	Noble metal-free Ni(OH) <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> composite photocatalyst with enhanced visible-light photocatalytic H <sub>2</sub> -production activity. <b>2013</b> , 3, 1782	363

825	Synthesis of a novel and stable g-C3N4/Ag3PO4 hybrid nanocomposite photocatalyst and study of the photocatalytic activity under visible light irradiation. <b>2013</b> , 1, 5333	536
824	A new and environmentally benign precursor for the synthesis of mesoporous g-C3N4 with tunable surface area. <b>2013</b> , 15, 4510-7	197
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820	Simple and green synthesis of nitrogen-doped photoluminescent carbonaceous nanospheres for bioimaging. <b>2013</b> , 52, 8151-5	378
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818	Solar hydrogen evolution using metal-free photocatalytic polymeric carbon nitride/CuInS2 composites as photocathodes. <b>2013</b> ,	18
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814	Triazine-based Carbon Nitrides for Visible-Light-Driven Hydrogen Evolution. <b>2013</b> , 125, 2495-2499	62
813	. <b>2014</b> ,	18
812	Hierarchically porous graphitic carbon nitride: large-scale facile synthesis and its application toward photocatalytic dye degradation. <b>2014</b> , 4, 59436-59439	41
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810	Low-temperature collapsing boron nitride nanospheres into nanoflakes and their photoluminescence properties. <b>2014</b> , 1, 035035	3
809	ZnS microsphere/g-C3N4 nanocomposite photo-catalyst with greatly enhanced visible light performance for hydrogen evolution: synthesis and synergistic mechanism study. <b>2014</b> , 4, 62223-62229	41
808	Carbon Nitride Photocatalysts for Water Splitting: A Computational Perspective. <b>2014</b> , 118, 24833-24842	88



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805	A fantastic graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) material: Electronic structure, photocatalytic and photoelectronic properties. <b>2014</b> , 20, 33-50	603
804	Graphene oxide-assisted production of carbon nitrides using a solution process and their photocatalytic activity. <b>2014</b> , 66, 119-125	49
803	Preparation, characterization and photocatalytic performance of g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> WO <sub>6</sub> composites for methyl orange degradation. <b>2014</b> , 40, 9077-9086	44
802	A facile molten-salt route to graphene synthesis. <b>2014</b> , 10, 193-200	174
801	Fabrication of nitrogen-doped hierarchically porous carbons through a hybrid dual-template route for CO <sub>2</sub> capture and haemoperfusion. <b>2014</b> , 76, 84-95	85
800	In situ synchrotron X-ray diffraction in the laser-heated diamond anvil cell: Melting phenomena and synthesis of new materials. <b>2014</b> , 277-278, 15-30	32
799	Triazine-based graphitic carbon nitride: a two-dimensional semiconductor. <b>2014</b> , 53, 7450-5	412
798	Triazine-Based Graphitic Carbon Nitride: a Two-Dimensional Semiconductor. <b>2014</b> , 126, 7580-7585	125
797	Ultrathin graphitic C <sub>3</sub> N <sub>4</sub> nanosheets/graphene composites: efficient organic electrocatalyst for oxygen evolution reaction. <b>2014</b> , 7, 2125-30	198
796	g-C <sub>3</sub> N <sub>4</sub> /NaTaO <sub>3</sub> organic/inorganic hybrid nanocomposite: High-performance and recyclable visible light driven photocatalyst. <b>2014</b> , 49, 310-318	45
795	Molecular Engineering of Functional Inorganic and Hybrid Materials. <b>2014</b> , 26, 221-238	127
794	Graphitic carbon nitride/BiVO <sub>4</sub> heterojunctions: simple hydrothermal synthesis and high photocatalytic performances. <b>2014</b> , 4, 4187-4193	87
793	Hierarchically porous graphene sheets and graphitic carbon nitride intercalated composites for enhanced oxygen reduction reaction. <b>2014</b> , 2, 3209-3215	49
792	Synthesis of highly efficient and recyclable visible-light responsive mesoporous g-C <sub>3</sub> N <sub>4</sub> photocatalyst via facile template-free sonochemical route. <b>2014</b> , 4, 8132	63
791	Influence of g-C <sub>3</sub> N <sub>4</sub> nanosheets on thermal stability and mechanical properties of biopolymer electrolyte nanocomposite films: a novel investigation. <b>2014</b> , 6, 429-37	125
790	Sorption of Cadmium from Aqueous Solution with a Highly Effective Sorbent [B-Doped g-C <sub>3</sub> N <sub>4</sub> . <b>2014</b> , 49, 1566-1573	9

789	Linear and nonlinear optical properties for AA and AB stacking of carbon nitride polymorph (C3N4). <b>2014</b> , 4, 11967-11974	27
788	The synergistic effect between WO3 and g-C3N4 towards efficient visible-light-driven photocatalytic performance. <b>2014</b> , 38, 5462-5469	60
787	One-step catalase controllable degradation of CN for N-doped carbon dot green fabrication and their bioimaging applications. <b>2014</b> , 2, 5768-5774	51
786	Updating biomass into functional carbon material in ionothermal manner. <b>2014</b> , 6, 12515-22	81
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783	Synthesis of mesoporous polymeric carbon nitride exhibiting enhanced and durable visible light photocatalytic performance. <b>2014</b> , 59, 688-698	27
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780	Hydrothermal synthesis of graphitic carbon nitride/BiVO4 composites with enhanced visible light photocatalytic activities and the mechanism study. <b>2014</b> , 75, 1217-1222	50
779	Bamboo leaf-assisted formation of carbon/nitrogen co-doped anatase TiO2 modified with silver and graphitic carbon nitride: novel and green synthesis and cooperative photocatalytic activity. <b>2014</b> , 43, 13792-802	64
778	Total photocatalysis conversion from cyclohexane to cyclohexanone by C3N4/Au nanocomposites. <b>2014</b> , 16, 4559-4565	71
777	Intercalated graphitic carbon nitride: a fascinating two-dimensional nanomaterial for an ultra-sensitive humidity nanosensor. <b>2014</b> , 6, 9250-6	92
776	gt-C3N4 ist das erste stabile binäre Kohlenstoff(IV)-nitrid. <b>2014</b> , 126, 11314-11316	3
775	Photoelectrochemical aptasensing of kanamycin using visible light-activated carbon nitride and graphene oxide nanocomposites. <b>2014</b> , 86, 9372-5	146
774	Nitrogen and sulfur co-doped carbon dots with strong blue luminescence. <b>2014</b> , 6, 13817-23	392
773	Gold nanoparticles enhanced electrochemiluminescence of graphite-like carbon nitride for the detection of Nuclear Matrix Protein 22. <b>2014</b> , 205, 176-183	36
772	gt-C3N4 ist das erste stabile binäre Kohlenstoff(IV)-nitrid. <b>2014</b> , 53, 11134-6	37

771	Crystalline carbon nitride nanosheets for improved visible-light hydrogen evolution. <b>2014</b> , 136, 1730-3	509
770	Recent progress on nitrogen/carbon structures designed for use in energy and sustainability applications. <b>2014</b> , 7, 1212-1249	487
769	Graphitic carbon nitride/Cu <sub>2</sub> O heterojunctions: Preparation, characterization, and enhanced photocatalytic activity under visible light. <b>2014</b> , 212, 1-6	61
768	Novel mesoporous graphite carbon nitride/BiOI heterojunction for enhancing photocatalytic performance under visible-light irradiation. <b>2014</b> , 6, 5083-93	274
767	One-pot green synthesis of high quantum yield oxygen-doped, nitrogen-rich, photoluminescent polymer carbon nanoribbons as an effective fluorescent sensing platform for sensitive and selective detection of silver(I) and mercury(II) ions. <b>2014</b> , 86, 7436-45	117
766	Cathodic electrochemiluminescence immunosensor based on nanocomposites of semiconductor carboxylated g-C <sub>3</sub> N <sub>4</sub> and graphene for the ultrasensitive detection of squamous cell carcinoma antigen. <b>2014</b> , 55, 330-6	134
765	Sponge-like nickel and nickel nitride structures for catalytic applications. <b>2014</b> , 26, 1272-6	61
764	Graphitic Carbon Nitride Supported Catalysts for Polymer Electrolyte Fuel Cells. <b>2014</b> , 118, 6831-6838	57
763	Highly-Ordered Mesoporous Carbon Nitride with Ultrahigh Surface Area and Pore Volume as a Superior Dehydrogenation Catalyst. <b>2014</b> , 26, 3151-3161	202
762	Influence of Rh nanoparticle size and composition on the photocatalytic water splitting performance of Rh/graphitic carbon nitride. <b>2014</b> , 39, 11537-11546	52
761	Highly Efficient Photocatalytic Activity of g-C <sub>3</sub> N <sub>4</sub> /Ag <sub>3</sub> PO <sub>4</sub> Hybrid Photocatalysts through Z-Scheme Photocatalytic Mechanism under Visible Light. <b>2014</b> , 53, 8018-8025	326
760	Facile approach to synthesize g-PAN/g-C <sub>3</sub> N <sub>4</sub> composites with enhanced photocatalytic H <sub>2</sub> evolution activity. <b>2014</b> , 6, 7171-9	228
759	Carbon-Doped ZnO Hybridized Homogeneously with Graphitic Carbon Nitride Nanocomposites for Photocatalysis. <b>2014</b> , 118, 10963-10971	211
758	Efficient and Durable Visible Light Photocatalytic Performance of Porous Carbon Nitride Nanosheets for Air Purification. <b>2014</b> , 53, 2318-2330	136
757	First principles calculations of the pressure affection to g-C <sub>3</sub> N <sub>4</sub> . <b>2014</b> , 91, 258-265	12
756	Etching graphitic carbon nitride by acid for enhanced photocatalytic activity toward degradation of 4-nitrophenol. <b>2014</b> , 25, 1247-1251	16
755	Nanostructured Carbon Nitrides for Photocatalytic Water Splitting. <b>2015</b> , 281-300	1
754	Polymeres graphitisches Kohlenstoffnitrid für die nachhaltige Photoredoxkatalyse. <b>2015</b> , 127, 13060-13077	130

753	Protic Salts of High Nitrogen Content as Versatile Precursors for Graphitic Carbon Nitride: Anion Effect on the Structure, Properties, and Photocatalytic Activity. <b>2015</b> , 80, 1139-1147	12
752	Mit Salzschnmelzen zu neuen Designerkohlen. <b>2015</b> , 63, 979-983	1
751	Metal-Free Carbonaceous Materials as Promising Heterogeneous Catalysts. <b>2015</b> , 7, 2765-2787	98
750	Porous Carbon Supports: Recent Advances with Various Morphologies and Compositions. <b>2015</b> , 7, 2788-2805	67
749	Graphitic Carbon Nitride Polymers toward Sustainable Photoredox Catalysis. <b>2015</b> , 54, 12868-84	1014
748	Synergic Effect between Adsorption and Photocatalysis of Metal-Free g-C <sub>3</sub> N <sub>4</sub> Derived from Different Precursors. <b>2015</b> , 10, e0142616	37
747	Structural band-gap tuning in g-C <sub>3</sub> N <sub>4</sub> . <b>2015</b> , 17, 957-62	79
746	The phase diagram and hardness of carbon nitrides. <b>2015</b> , 5, 9870	66
745	Temperature-controlled morphology evolution of graphitic carbon nitride nanostructures and their photocatalytic activities under visible light. <b>2015</b> , 5, 49317-49325	84
744	Ultrathin graphitic C <sub>3</sub> N <sub>4</sub> nanofibers: Hydrolysis-driven top-down rapid synthesis and application as a novel fluorosensor for rapid, sensitive, and selective detection of Fe <sup>3+</sup> . <b>2015</b> , 216, 453-460	69
743	Graphite-like carbon nitride and functionalized layered double hydroxide filled polypropylene-grafted maleic anhydride nanocomposites: Comparison in flame retardancy, and thermal, mechanical and UV-shielding properties. <b>2015</b> , 79, 277-284	47
742	Highly Enhanced Gas Sorption Capacities of N-Doped Porous Carbon Spheres by Hot NH <sub>3</sub> and CO <sub>2</sub> Treatments. <b>2015</b> , 119, 28512-28522	46
741	Enhanced supercapacitive performance of graphite-like C <sub>3</sub> N <sub>4</sub> assembled with NiAl-layered double hydroxide. <b>2015</b> , 186, 292-301	77
740	Dramatic activity of a Bi <sub>2</sub> WO <sub>6</sub> @g-C <sub>3</sub> N <sub>4</sub> photocatalyst with a core@shell structure. <b>2015</b> , 5, 99339-99346	46
739	Photocatalytic activity enhancement of modified g-C <sub>3</sub> N <sub>4</sub> by ionothermal copolymerization. <b>2015</b> , 1, 340-347	42
738	NaOH-embedded three-dimensional porous boron nitride for efficient formaldehyde removal. <b>2015</b> , 26, 475704	9
737	Analytical Investigation of Urea Deposits in SCR System. <b>2015</b> , 8, 1219-1239	27
736	Unique Graphitic Carbon Nitride Nanovessels as Recyclable Adsorbent for Solid Phase Extraction of Benzoylurea Pesticides in Juices Samples. <b>2015</b> , 8, 2202-2210	20

- 735 Carbon dots based turn-on fluorescent probes for oxytetracycline hydrochloride sensing. **2015**, 5, 19853-19858;6
- 734 Novel band gap-tunable KNa co-doped graphitic carbon nitride prepared by molten salt method. **2015**, 332, 625-630 90
- 733 Graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) as a metal-free catalyst for thermal decomposition of ammonium perchlorate. **2015**, 5, 24507-24512 75
- 732 Synthesis of g-C<sub>3</sub>N<sub>4</sub> with heating acetic acid treated melamine and its photocatalytic activity for hydrogen evolution. **2015**, 354, 196-200 88
- 731 Promotional effect of N-doped CeO<sub>2</sub> supported CoO<sub>x</sub> catalysts with enhanced catalytic activity on NO oxidation. **2015**, 398, 344-352 31
- 730 Stability and electronic structures of triazine-based carbon nitride nanotubes. **2015**, 5, 10892-10898 10
- 729 Carbon nitride in energy conversion and storage: recent advances and future prospects. **2015**, 8, 931-46 158
- 728 Water splitting. Metal-free efficient photocatalyst for stable visible water splitting via a two-electron pathway. **2015**, 347, 970-4 3101
- 727 Fast and facile preparation of metal-doped g-C<sub>3</sub>N<sub>4</sub> composites for catalytic synthesis of dimethyl carbonate. **2015**, 496, 1-8 93
- 726 Hydrodechlorination and further hydrogenation of 4-chlorophenol to cyclohexanone in water over Pd nanoparticles modified N-doped mesoporous carbon microspheres. **2015**, 270, 215-222 59
- 725 Highly selective CO<sub>2</sub> photoreduction to CO over g-C<sub>3</sub>N<sub>4</sub>/Bi<sub>2</sub>WO<sub>6</sub> composites under visible light. **2015**, 3, 5189-5196 293
- 724 Synthesis of graphene with both high nitrogen content and high surface area by annealing composite of graphene oxide and g-C<sub>3</sub>N<sub>4</sub>. **2015**, 12, 807-814 10
- 723 In-situ synthesis of CdS/g-C<sub>3</sub>N<sub>4</sub> hybrid nanocomposites with enhanced visible photocatalytic activity. **2015**, 50, 3057-3064 40
- 722 Facile fabrication of a mpg-C<sub>3</sub>N<sub>4</sub>/TiO<sub>2</sub> heterojunction photocatalyst with enhanced visible light photoactivity toward organic pollutant degradation. **2015**, 5, 64976-64982 26
- 721 Laser ablation of molecular carbon nitride compounds. **2015**, 349, 353-360 8
- 720 Mechanistic insight into the water photooxidation on pure and sulfur-doped g-C<sub>3</sub>N<sub>4</sub> photocatalysts from DFT calculations with dispersion corrections. **2015**, 406, 137-144 69
- 719 Ag<sub>2</sub>O modified g-C<sub>3</sub>N<sub>4</sub> for highly efficient photocatalytic hydrogen generation under visible light irradiation. **2015**, 3, 15710-15714 92
- 718 Triazoles: A New Class of Precursors for the Synthesis of Negatively Charged Carbon Nitride Derivatives. **2015**, 27, 5170-5179 143

717	Simple hydrothermal preparation of carbon nanodots and their application in colorimetric and fluorimetric detection of mercury ions. <b>2015</b> , 7, 7540-7547	30
716	First principle modeling of oxygen-doped monolayer graphitic carbon nitride. <b>2015</b> , 161, 194-200	73
715	Synthesis and characterization of g-C3N4/BiFeO3 composites with an enhanced visible light photocatalytic activity. <b>2015</b> , 40, 439-445	82
714	One-step electrochemical synthesis of ultrathin graphitic carbon nitride nanosheets and their application to the detection of uric acid. <b>2015</b> , 51, 12251-3	94
713	A visible light induced photoelectrochemical aptsensor constructed by aligned ZnO@CdTe core shell nanocable arrays/carboxylated g-C3N4 for the detection of Proprotein convertase subtilisin/kexin type 6 gene. <b>2015</b> , 74, 49-58	42
712	Photoelectrochemical properties and photodegradation of organic pollutants using hematite hybrids modified by gold nanoparticles and graphitic carbon nitride. <b>2015</b> , 176-177, 654-666	103
711	Facile preparation of SBA-15-supported carbon nitride materials for high-performance base catalysis. <b>2015</b> , 211, 105-112	19
710	Remarkable enhancement in visible-light absorption and electron transfer of carbon nitride nanosheets with 1% tungstate dopant. <b>2015</b> , 176-177, 91-98	12
709	Facile Synthesis of Crystalline Polymeric Carbon Nitrides with an Enhanced Photocatalytic Performance under Visible Light. <b>2015</b> , 7, 2897-2902	34
708	Fluorescent N-doped carbon dots for both cellular imaging and highly-sensitive catechol detection. <b>2015</b> , 91, 66-75	122
707	Synthesis, characterization, and enhanced properties of novel graphite-like carbon nitride/polyimide composite films. <b>2015</b> , 27, 950-960	17
706	Lithium Charge Storage Mechanisms of Cross-Linked Triazine Networks and Their Porous Carbon Derivatives. <b>2015</b> , 27, 3821-3829	42
705	Synthesis of triazine-based materials by functionalization with alkynes. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 7866-73	4.8 9
704	As a new peroxidase mimetics: The synthesis of selenium doped graphitic carbon nitride nanosheets and applications on colorimetric detection of H2O2 and xanthine. <b>2015</b> , 216, 418-427	102
703	Hydroxyl-rich C-dots synthesized by a one-pot method and their application in the preparation of noble metal nanoparticles. <b>2015</b> , 51, 7164-7	73
702	A uniformly porous 2D CN (1 : 1) network predicted by first-principles calculations. <b>2015</b> , 5, 11791-11796	6
701	Isoelectric point and adsorption activity of porous g-C3N4. <b>2015</b> , 344, 188-195	569
700	Metal halides supported on mesoporous carbon nitride as efficient heterogeneous catalysts for the cycloaddition of CO2. <b>2015</b> , 403, 77-83	50

699	Facile synthesis of new, highly efficient SnO <sub>2</sub> /carbon nitride composite photocatalysts for the hydrogen evolution reaction. <b>2015</b> , 17, 3350-3361	59
698	A general method for type I and type II g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> metal-free isotype heterostructures with enhanced visible light photocatalysis. <b>2015</b> , 39, 4737-4744	81
697	Green synthesis of fluorescent carbon nanoparticles from lychee (Litchi chinensis) plant. <b>2015</b> , 32, 1707-1711	13
696	Microporous Polymer Networks Made by Cyclotrimerization of Commercial, Aromatic Diisocyanates. <b>2015</b> , 4, 1268-1272	27
695	Recent development in exfoliated two-dimensional g-C <sub>3</sub> N <sub>4</sub> nanosheets for photocatalytic applications. <b>2015</b> , 3, 23642-23652	311
694	Chemical Cleavage of Layered Carbon Nitride with Enhanced Photoluminescent Performances and Photoconduction. <b>2015</b> , 9, 12480-7	211
693	Effect of processing temperature on structure and photocatalytic properties of g-C <sub>3</sub> N <sub>4</sub> . <b>2015</b> , 358, 278-286	198
692	A Schiff-base-type vanadyl complex grafted on mesoporous carbon nitride: a new efficient catalyst for hydroxylation of benzene to phenol. <b>2015</b> , 5, 92526-92533	17
691	Preparation of Self-Assembled Spherical g-C <sub>3</sub> N <sub>4</sub> /tz-Bi(0.92)Gd(0.08)VO <sub>4</sub> Heterojunctions and Their Mineralization Properties. <b>2015</b> , 7, 23949-57	34
690	Selective silver ion adsorption onto mesoporous graphitic carbon nitride. <b>2015</b> , 95, 58-64	29
689	A review on g-C <sub>3</sub> N <sub>4</sub> for photocatalytic water splitting and CO <sub>2</sub> reduction. <b>2015</b> , 358, 15-27	560
688	Efficient visible-light photocatalytic hydrogen evolution and enhanced photostability of core@shell Cu <sub>2</sub> O@g-C <sub>3</sub> N <sub>4</sub> octahedra. <b>2015</b> , 351, 1146-1154	131
687	Synthesis of efficient photocatalysts for water oxidation and dye degradation reactions using CoCl <sub>2</sub> eutectics. <b>2015</b> , 3, 21227-21232	30
686	Cosolvent-free nanocasting synthesis of ordered mesoporous g-C <sub>3</sub> N <sub>4</sub> and its remarkable photocatalytic activity for methyl orange degradation. <b>2015</b> , 5, 76963-76972	27
685	Synthesis of ionic liquid-modified BiPO <sub>4</sub> microspheres with hierarchical flower-like architectures and enhanced photocatalytic activity. <b>2015</b> , 5, 100625-100632	19
684	Crystalline poly(triazine imide) based g-CN as an efficient electrocatalyst for counter electrodes of dye-sensitized solar cells using a triiodide/iodide redox electrolyte. <b>2015</b> , 3, 24232-24236	27
683	Vanadia supported on mesoporous carbon nitride as a highly efficient catalyst for hydroxylation of benzene to phenol. <b>2015</b> , 5, 1504-1513	58
682	Photocatalytic Hydrogen Evolution from Silica-Templated Polymeric Graphitic Carbon Nitride: Is the Surface Area Important?. <b>2015</b> , 7, 121-126	45

681	Carbon nitride nanosheets decorated with WO <sub>3</sub> nanorods: Ultrasonic-assisted facile synthesis and catalytic application in the green manufacture of dialdehydes. <b>2015</b> , 165, 511-518	95
680	Template-free synthesis of porous graphitic carbon nitride microspheres for enhanced photocatalytic hydrogen generation with high stability. <b>2015</b> , 165, 503-510	161
679	Nitrogenated graphene and carbon nanomaterials by carbonization of polyfurfuryl alcohol in the presence of urea and dicyandiamide. <b>2015</b> , 17, 1032-1037	11
678	Graphitic carbon nitride polymers: promising catalysts or catalyst supports for heterogeneous oxidation and hydrogenation. <b>2015</b> , 17, 715-736	216
677	On the heterostructured photocatalysts Ag <sub>3</sub> VO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> with enhanced visible light photocatalytic activity. <b>2015</b> , 324, 324-331	135
676	Polymerization of room-temperature ionic liquid monomers by electron beam irradiation with the aim of fabricating three-dimensional micropolymer/nanopolymer structures. <b>2015</b> , 31, 4281-9	24
675	Mesoporous carbon nitride grafted with n-bromobutane: a high-performance heterogeneous catalyst for the solvent-free cycloaddition of CO <sub>2</sub> to propylene carbonate. <b>2015</b> , 5, 447-454	105
674	Amplified fluorescent aptasensor through catalytic recycling for highly sensitive detection of ochratoxin A. <b>2015</b> , 65, 16-22	77
673	Biomimetic fabrication of g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> nanosheets with enhanced photocatalytic activity toward organic pollutant degradation. <b>2015</b> , 260, 117-125	342
672	Soft Photocatalysis: Organic Polymers for Solar Fuel Production. <b>2016</b> , 28, 5191-5204	175
671	Synthesis of Two-dimensional Microporous Carbonaceous Polymer Nanosheets and Their Application as High-performance CO <sub>2</sub> Capture Sorbent. <b>2016</b> , 11, 1849-55	10
670	Vanadium supported on graphitic carbon nitride as a heterogeneous catalyst for the direct oxidation of benzene to phenol. <b>2016</b> , 37, 2003-2008	16
669	Bifunctional Ag/C <sub>3</sub> N <sub>4</sub> .5 composite nanobelts for photocatalysis and antibacterium. <b>2016</b> , 27, 395603	13
668	Highly efficient visible-light photocatalytic performance based on novel AgI/g-C <sub>3</sub> N <sub>4</sub> composite photocatalysts. <b>2016</b> , 664, 167-172	25
667	Flower-like Cobalt Hydroxide/Oxide on Graphitic Carbon Nitride for Visible-Light-Driven Water Oxidation. <b>2016</b> , 8, 35203-35212	65
666	Controlled synthesis of graphitic carbon nitride and its catalytic properties in Knoevenagel condensations. <b>2016</b> , 344, 293-302	53
665	A sensitive electrogenerated chemiluminescence biosensor for galactosyltransferase activity analysis based on a graphitic carbon nitride nanosheet interface and polystyrene microsphere-enhanced responses. <b>2016</b> , 6, 32804-32810	14
664	Graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) nanocomposites: A new and exciting generation of visible light driven photocatalysts for environmental pollution remediation. <b>2016</b> , 198, 347-377	730



- 663 Enhancement of g-C<sub>3</sub>N<sub>4</sub> nanosheets photocatalysis by synergistic interaction of ZnS microsphere and RGO inducing multistep charge transfer. **2016**, 198, 200-210 132
- 662 Influence of Si ion implantation on structure and morphology of g-C<sub>3</sub>N<sub>4</sub>. **2016**, 379, 167-170
- 661 A critical study of the generality of the two step two electron pathway for water splitting by application of a C<sub>3</sub>N<sub>4</sub>/MnO<sub>2</sub> photocatalyst. **2016**, 8, 11956-61 45
- 660 Self-floating graphitic carbon nitride/zinc phthalocyanine nanofibers for photocatalytic degradation of contaminants. **2016**, 317, 17-26 49
- 659 Graphitic Carbon Nitride (g-C<sub>3</sub>N<sub>4</sub>)-Based Photocatalysts for Artificial Photosynthesis and Environmental Remediation: Are We a Step Closer To Achieving Sustainability?. **2016**, 116, 7159-329 4018
- 658 Molten salt synthesis of water-dispersible polymeric carbon nitride nanoseaweeds and their application as luminescent probes. **2016**, 102, 477-486 72
- 657 Dyed graphitic carbon nitride with greatly extended visible-light-responsive range for hydrogen evolution. **2016**, 339, 93-101 57
- 656 Photoreactivity and Mechanism of g-C<sub>3</sub>N<sub>4</sub> and Ag Co-Modified Bi<sub>2</sub>WO<sub>6</sub> Microsphere under Visible Light Irradiation. **2016**, 4, 3017-3023 123
- 655 Tri-s-triazine-Based Crystalline Graphitic Carbon Nitrides for Highly Efficient Hydrogen Evolution Photocatalysis. **2016**, 6, 3921-3931 531
- 654 Nitrogen-rich graphitic carbon nitride: Controllable nanosheet-like morphology, enhanced visible light absorption and superior photocatalytic performance. **2016**, 508, 257-264 76
- 653 Highly sensitive cataluminescence gas sensors for 2-butanone based on g-CN sheets decorated with CuO nanoparticles. **2016**, 408, 8831-8841 29
- 652 Electropolymerization as a new route to g-C<sub>3</sub>N<sub>4</sub> coatings on TiO<sub>2</sub> nanotubes for solar applications. **2016**, 6, 87314-87318 9
- 651 Near-infrared emissive carbon dots for two-photon fluorescence bioimaging. **2016**, 8, 17350-17356 172
- 650 Effect of Graphitic Carbon Nitride on the Electronic and Catalytic Properties of Ru Nanoparticles for Ammonia Synthesis. **2016**, 146, 2324-2329 16
- 649 An "in-electrode"-type immunosensing strategy for the detection of squamous cell carcinoma antigen based on electrochemiluminescent AuNPs/g-C<sub>3</sub>N<sub>4</sub> nanocomposites. **2016**, 160, 247-255 18
- 648 g-C<sub>3</sub>N<sub>4</sub> modified flower-like WO<sub>3</sub>Bi<sub>2</sub>WO<sub>6</sub> microspheres with enhanced photoelectrocatalytic activity. **2016**, 40, 9638-9647 27
- 647 N-Doped carbon dot with surface dominant non-linear optical properties. **2016**, 6, 95476-95482 17
- 646 A highly efficient g-CN/SiO heterojunction: the role of SiO in the enhancement of visible light photocatalytic activity. **2016**, 18, 31410-31418 86

645	A facile one-step synthesis of ZnO quantum dots modified poly(triazine imide) nanosheets for enhanced hydrogen evolution under visible light. <b>2016</b> , 52, 13020-13023		21
644	Crystallinity Modulation of Layered Carbon Nitride for Enhanced Photocatalytic Activities. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 12449-54	4.8	58
643	Visible-light responsive plasmonic Ag <sub>2</sub> O/Ag/g-C <sub>3</sub> N <sub>4</sub> nanosheets with enhanced photocatalytic degradation of Rhodamine B. <b>2016</b> , 31, 2252-2260		41
642	Third-order nonlinear optical properties of carboxyl group dominant carbon nanodots. <b>2016</b> , 4, 8490-8495		24
641	Konjugierte Polymere: Katalysatoren für die photokatalytische Wasserstoffentwicklung. <b>2016</b> , 128, 15940-15956		66
640	Conjugated Polymers: Catalysts for Photocatalytic Hydrogen Evolution. <b>2016</b> , 55, 15712-15727		531
639	Enhancing Performance of CdS Quantum Dot-Sensitized Solar Cells by Two-Dimensional g-CN Modified TiO Nanorods. <b>2016</b> , 11, 463		28
638	Graphene-like Poly(triazine imide) as N <sub>2</sub> -Selective Ultrathin Membrane for Postcombustion CO <sub>2</sub> Capture. <b>2016</b> , 120, 28782-28788		22
637	Graphitic Carbon Nitride Film: An Emerging Star for Catalytic and Optoelectronic Applications. <b>2016</b> , 9, 2723-2735		62
636	Carbon nitride frameworks and dense crystalline polymorphs. <b>2016</b> , 94,		42
635	Ag modified g-C <sub>3</sub> N <sub>4</sub> composites with enhanced visible-light photocatalytic activity for diclofenac degradation. <b>2016</b> , 423, 270-276		121
634	Air activation by a metal-free photocatalyst for totally-green hydrocarbon selective oxidation. <b>2016</b> , 6, 7252-7258		27
633	Fabrication of highly active Melem/Zn <sub>0.25</sub> Cd <sub>0.75</sub> S composites for the degradation of bisphenol A and methyl orange under visible light irradiation. <b>2016</b> , 387, 513-520		6
632	Surface hydroxylation of graphitic carbon nitride: Enhanced visible light photocatalytic activity. <b>2016</b> , 84, 46-56		28
631	A sensitive and selective sensing platform based on CdTe QDs in the presence of l-cysteine for detection of silver, mercury and copper ions in water and various drinks. <b>2016</b> , 213, 306-312		99
630	Solving the Hydrogen and Lithium Substructure of Poly(triazine imide)/LiCl Using NMR Crystallography. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 16878-16890	4.8	35
629	Metal-free half-metallicity in a high energy phase C-doped gh-C <sub>3</sub> N <sub>4</sub> system: a high Curie temperature planar system. <b>2016</b> , 4, 11530-11539		26
628	Split photoelectrochemistry for the immunoassay of Fetoprotein based on graphitic carbon nitride. <b>2016</b> , 783, 226-232		12

627	Graphitic Carbon Nitride as a Catalyst Support in Fuel Cells and Electrolyzers. <b>2016</b> , 222, 44-57	83
626	Visible-Light-Responsive Graphitic Carbon Nitride: Rational Design and Photocatalytic Applications for Water Treatment. <b>2016</b> , 50, 12938-12948	190
625	Facile alkali-assisted synthesis of g-C <sub>3</sub> N <sub>4</sub> materials and their high-performance catalytic application in solvent-free cycloaddition of CO <sub>2</sub> to epoxides. <b>2016</b> , 6, 55382-55392	35
624	Processable Dispersions of Graphitic Carbon Nitride Based Nanohybrids and Application in Polymer Nanocomposites. <b>2016</b> , 55, 7646-7654	17
623	How does the B,F-monodoping and B/F-codoping affect the photocatalytic water-splitting performance of g-C <sub>3</sub> N <sub>4</sub> ?. <b>2016</b> , 18, 19217-26	78
622	Fe-species-loaded graphitic carbon nitride with enhanced photocatalytic performance under visible-light irradiation. <b>2016</b> , 420, 159-166	15
621	Ultrasensitive and visual detection of squamous cell carcinoma antigen based on a silver-enhanced sandwich immunoassay using AuNPs@g-C <sub>3</sub> N <sub>4</sub> nanocomposites. <b>2016</b> , 235, 670-677	9
620	Observation of the superstructural diffraction peak in the nitrogen doped carbon nanotubes: Simulation of the structure. <b>2016</b> , 24, 520-530	18
619	Engineering the electronic structure and optical properties of g-C <sub>3</sub> N <sub>4</sub> by non-metal ion doping. <b>2016</b> , 4, 6839-6847	81
618	Fabrication of Z-scheme g-C <sub>3</sub> N <sub>4</sub> /RGO/Bi <sub>2</sub> WO <sub>6</sub> photocatalyst with enhanced visible-light photocatalytic activity. <b>2016</b> , 290, 136-146	245
617	CdS nanoparticles/CeO <sub>2</sub> nanorods composite with high-efficiency visible-light-driven photocatalytic activity. <b>2016</b> , 363, 154-160	70
616	Direct microwave synthesis of graphitic C <sub>3</sub> N <sub>4</sub> with improved visible-light photocatalytic activity. <b>2016</b> , 42, 4063-4071	25
615	Visible Photocatalytic Water Splitting and Photocatalytic Two-Electron Oxygen Formation over Cu- and Fe-Doped g-C <sub>3</sub> N <sub>4</sub> . <b>2016</b> , 120, 56-63	212
614	Graphitic carbon nitride based hydrogen treated disordered titanium dioxide core-shell nanocatalyst for enhanced photocatalytic and photoelectrochemical performance. <b>2016</b> , 41, 5617-5628	34
613	Highly efficient hydrogen evolution over Co(OH) <sub>2</sub> nanoparticles modified g-C <sub>3</sub> N <sub>4</sub> co-sensitized by Eosin Y and Rose Bengal under Visible Light Irradiation. <b>2016</b> , 188, 56-64	127
612	Magnetic graphitic carbon nitride anion exchanger for specific enrichment of phosphopeptides. <b>2016</b> , 1437, 137-144	32
611	Dual synergetic effects in MoS <sub>2</sub> /pyridine-modified g-C <sub>3</sub> N <sub>4</sub> composite for highly active and stable photocatalytic hydrogen evolution under visible light. <b>2016</b> , 190, 36-43	108
610	MnSe-loaded g-C <sub>3</sub> N <sub>4</sub> nanocomposite with synergistic peroxidase-like catalysis: Synthesis and application toward colorimetric biosensing of H <sub>2</sub> O <sub>2</sub> and glucose. <b>2016</b> , 229, 379-386	71

609	In situ ion-exchange synthesis of SnS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> nanosheets heterojunction for enhancing photocatalytic activity. <b>2016</b> , 6, 10802-10809	69
608	One-step preparation of disposable multi-functionalized g-C <sub>3</sub> N <sub>4</sub> based electrochemiluminescence immunosensor for the detection of CA125. <b>2016</b> , 226, 62-68	58
607	In situ growth of Ag/Ag <sub>2</sub> O nanoparticles on g-C <sub>3</sub> N <sub>4</sub> by a natural carbon nanodot-assisted green method for synergistic photocatalytic activity. <b>2016</b> , 6, 3186-3197	26
606	Template-free synthesis of porous graphitic carbon nitride/carbon composite spheres for electrocatalytic oxygen reduction reaction. <b>2016</b> , 52, 1725-8	80
605	Flux-mediated doping of SrTiO <sub>3</sub> photocatalysts for efficient overall water splitting. <b>2016</b> , 4, 3027-3033	152
604	One-step hydrothermal synthesis of photoluminescent carbon nitride dots derived from ionic liquids. <b>2016</b> , 40, 320-324	21
603	Sol-gel carbons from ionothermal syntheses. <b>2017</b> , 81, 52-58	10
602	Design of Cu-Cu <sub>2</sub> O/g-C <sub>3</sub> N <sub>4</sub> nanocomponent photocatalysts for hydrogen evolution under visible light irradiation using water-soluble Erythrosin B dye sensitization. <b>2017</b> , 391, 404-414	163
601	A review on g-C <sub>3</sub> N <sub>4</sub> -based photocatalysts. <b>2017</b> , 391, 72-123	1687
600	An Efficient, Visible Light Driven, Selective Oxidation of Aromatic Alcohols and Amines with O <sub>2</sub> Using BiVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> Nanocomposite: A Systematic and Comprehensive Study toward the Development of a Photocatalytic Process. <b>2017</b> , 5, 2562-2577	139
599	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. <b>2017</b> , 27, 1605785	172
598	Enhancing the photodegradation of charged pollutants under visible light in Ag <sub>2</sub> O/g-C <sub>3</sub> N <sub>4</sub> catalyst by Coulombic interaction. <b>2017</b> , 52, 5147-5154	9
597	Enhanced Photoelectrochemical Method for Sensitive Detection of Protein Kinase A Activity Using TiO <sub>2</sub> /g-CN, PAMAM Dendrimer, and Alkaline Phosphatase. <b>2017</b> , 89, 2369-2376	129
596	Coupling polymorphic nanostructured carbon nitrides into an isotype heterojunction with boosted photocatalytic H evolution. <b>2017</b> , 53, 2978-2981	64
595	One-step exfoliation and fluorination of g-C <sub>3</sub> N <sub>4</sub> nanosheets with enhanced photocatalytic activities. <b>2017</b> , 41, 3061-3067	37
594	Enhanced debromination and degradation of 2,4-dibromophenol by an Z-scheme Bi <sub>2</sub> MoO <sub>6</sub> /CNTs/g-C <sub>3</sub> N <sub>4</sub> visible light photocatalyst. <b>2017</b> , 316, 461-470	91
593	First principle investigation of halogen-doped monolayer g-C <sub>3</sub> N <sub>4</sub> photocatalyst. <b>2017</b> , 207, 27-34	306
592	Enhancing visible light photocatalytic activity of nitrogen-deficient g-CN via thermal polymerization of acetic acid-treated melamine. <b>2017</b> , 495, 27-36	86

591	Tri-s-triazine-Based Crystalline Carbon Nitride Nanosheets for an Improved Hydrogen Evolution. <b>2017</b> , 29, 1700008	407
590	Resonance energy transfer based electrochemiluminescence and fluorescence sensing of riboflavin using graphitic carbon nitride quantum dots. <b>2017</b> , 973, 34-42	37
589	N,S co-doped carbon dots as a stable bio-imaging probe for detection of intracellular temperature and tetracycline. <b>2017</b> , 5, 3293-3299	83
588	The Performance of Nanoparticulate Graphitic Carbon Nitride as an Amphiphile. <b>2017</b> , 139, 6026-6029	97
587	Synthesis of Layered Carbonitrides from Biotic Molecules for Photoredox Transformations. <b>2017</b> , 129, 6727-6731	45
586	Synthesis, characterization and application of nitrogen-sulfur-doped carbon spheres as an efficient catalyst for the preparation of novel diamminophosphonates. <b>2017</b> , 14, 1971-1982	7
585	2D-2D MnO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction photocatalyst: In-situ synthesis and enhanced CO <sub>2</sub> reduction activity. <b>2017</b> , 120, 23-31	171
584	Carbon nitride as efficient catalyst for chemical fixation of CO <sub>2</sub> into chloropropene carbonate: Promotion effect of Cl in epichlorohydrin. <b>2017</b> , 436, 228-236	29
583	Synthesis of Layered Carbonitrides from Biotic Molecules for Photoredox Transformations. <b>2017</b> , 56, 6627-6631	131
582	Photocatalytic selective oxidation of biomass-derived 5-hydroxymethylfurfural to 2,5-diformylfuran on metal-free g-C <sub>3</sub> N <sub>4</sub> under visible light irradiation. <b>2017</b> , 436, 10-18	63
581	Graphitic carbon nitride quantum dots in situ coupling to Bi <sub>2</sub> MoO <sub>6</sub> nanohybrids with enhanced charge transfer performance and photoelectrochemical detection of copper ion. <b>2017</b> , 787, 66-71	30
580	Hydrothermal synthesis of an artificial Z-scheme visible light photocatalytic system using reduced graphene oxide as the electron mediator. <b>2017</b> , 313, 1567-1576	67
579	Photoluminescence of carbon dots and their applications in Hela cell imaging and Fe <sup>3+</sup> ion detection. <b>2017</b> , 52, 9979-9989	20
578	Graphitic carbon nitride supported platinum nanocomposites for rapid and sensitive colorimetric detection of mercury ions. <b>2017</b> , 980, 72-78	35
577	Photocatalytic overall water splitting by conjugated semiconductors with crystalline poly(triazine imide) frameworks. <b>2017</b> , 8, 5506-5511	134
576	Functional carbon nitride materials: Design strategies for electrochemical devices. <b>2017</b> , 2,	526
575	A multianalyte fluorescent carbon dots sensing system constructed based on specific recognition of Fe(III) ions. <b>2017</b> , 7, 28637-28646	49
574	Carbon nitrides: synthesis and characterization of a new class of functional materials. <b>2017</b> , 19, 15613-15638	231

573	Polymeric carbon nitride for solar hydrogen production. <b>2017</b> , 53, 7438-7446	37
572	Graphitic Carbon Nitride Isotype Heterostructures with Enhanced Visible Photocatalytic Properties. <b>2017</b> , 12, 1750042	3
571	Novel graphite-like carbon nitride/organic aluminum diethylhypophosphites nanohybrid: Preparation and enhancement on thermal stability and flame retardancy of polystyrene. <b>2017</b> , 99, 149-156	30
570	Novel Z-Scheme g-C <sub>3</sub> N <sub>4</sub> /C@Bi <sub>2</sub> MoO <sub>6</sub> composite with enhanced visible-light photocatalytic activity for Eaphthol degradation. <b>2017</b> , 183, 54-65	50
569	Photoelectrode nanomaterials for photoelectrochemical water splitting. <b>2017</b> , 42, 11078-11109	103
568	Preparation and characterization of ternary magnetic g-C <sub>3</sub> N <sub>4</sub> composite photocatalysts for removal of tetracycline under visible light. <b>2017</b> , 38, 447-457	19
567	Lasing behavior of surface functionalized carbon quantum dot/RhB composites. <b>2017</b> , 9, 5049-5054	21
566	Graphitic carbon nitride/phosphorus-rich aluminum phosphinates hybrids as smoke suppressants and flame retardants for polystyrene. <b>2017</b> , 332, 87-96	150
565	Simple preparation of MgO/g-C <sub>3</sub> N <sub>4</sub> catalyst and its application for catalytic synthesis of dimethyl carbonate via transesterification. <b>2017</b> , 95, 72-76	23
564	Graphitic carbon nitride: Synthesis, characterization and photocatalytic decomposition of nitrous oxide. <b>2017</b> , 193, 438-446	83
563	Determination of Crystal Structure of Graphitic Carbon Nitride: Ab Initio Evolutionary Search and Experimental Validation. <b>2017</b> , 29, 2694-2707	51
562	Novel magnetic BaFe <sub>12</sub> O <sub>19</sub> /g-C <sub>3</sub> N <sub>4</sub> composites with enhanced thermocatalytic and photo-Fenton activity under visible-light. <b>2017</b> , 710, 510-518	46
561	A new precursor to synthesize g-C <sub>3</sub> N <sub>4</sub> with superior visible light absorption for photocatalytic application. <b>2017</b> , 7, 1826-1830	27
560	Visible and near infrared light active photocatalysis based on conjugated polymers. <b>2017</b> , 51, 27-43	57
559	A facile and novel construction of attapulgite/Cu <sub>2</sub> O/Cu/g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic activity for antibiotic degradation. <b>2017</b> , 43, 3324-3329	55
558	Artificial Photosynthetic Z-scheme Photocatalyst for Hydrogen Evolution with High Quantum Efficiency. <b>2017</b> , 121, 107-114	53
557	A 2D-g-CN nanosheet as an eco-friendly adsorbent for various environmental pollutants in water. <b>2017</b> , 171, 192-201	85
556	Simple synthesis of oxygen functional layered carbon nitride with near-infrared light photocatalytic activity. <b>2017</b> , 91, 21-24	7

555	Covalent Cross-Linking of Porous Poly(ionic liquid) Membrane via a Triazine Network. <b>2017</b> , 6, 1-5	23
554	Distorted Carbon Nitride Structure with Substituted Benzene Moieties for Enhanced Visible Light Photocatalytic Activities. <b>2017</b> , 9, 40360-40368	50
553	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. <b>2017</b> , 56, 13445-13449	379
552	Synthesis, properties, and application of polymeric carbon nitrides. <b>2017</b> , 66, 782-807	7
551	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
550	Nanoscale, conformal films of graphitic carbon nitride deposited at room temperature: a method for construction of heterojunction devices. <b>2017</b> , 9, 16586-16590	18
549	Palladium-nitrogen coordinated cobalt alloy towards hydrogen oxidation and oxygen reduction reactions with high catalytic activity in renewable energy generations of proton exchange membrane fuel cell. <b>2017</b> , 208, 37-48	26
548	Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. <b>2017</b> , 129, 13630-13634	91
547	Molecularly dispersed nickel-containing species on the carbon nitride network as electrocatalysts for the oxygen evolution reaction. <b>2017</b> , 124, 180-187	45
546	One-step synthesis of CoO/g-C <sub>3</sub> N <sub>4</sub> composites by thermal decomposition for overall water splitting without sacrificial reagents. <b>2017</b> , 4, 1691-1696	41
545	Simulation-guided synthesis of graphitic carbon nitride beads with 3D interconnected and continuous meso/macropore channels for enhanced light absorption and photocatalytic performance. <b>2017</b> , 5, 21300-21312	53
544	Efficient Photocatalytic Hydrogen Evolution on Band Structure Tuned Polytriazine/Heptazine Based Carbon Nitride Heterojunctions with Ordered Needle-like Morphology Achieved by an In Situ Molten Salt Method. <b>2017</b> , 121, 21497-21509	45
543	New complete assignment of X-ray powder diffraction patterns in graphitic carbon nitride using discrete Fourier transform and direct experimental evidence. <b>2017</b> , 19, 26072-26084	39
542	An efficient eco advanced oxidation process for phenol mineralization using a 2D/3D nanocomposite photocatalyst and visible light irradiations. <b>2017</b> , 7, 9898	15
541	Enhanced room-temperature ferromagnetic properties in ultrathin two-dimensional metal-free poly(triazine imide) nanosheets. <b>2017</b> , 124, 486-491	5
540	Confined Catalysis in the g-CN/Pt(111) Interface: Feasible Molecule Intercalation, Tunable Molecule-Metal Interaction, and Enhanced Reaction Activity of CO Oxidation. <b>2017</b> , 9, 33267-33273	26
539	Fabrication of ZnO/g-C <sub>3</sub> N <sub>4</sub> nanocomposites for enhanced visible light driven photocatalytic activity. <b>2017</b> , 4, 075037	35
538	Metal-organic hybrid: Photoreduction of CO <sub>2</sub> using graphitic carbon nitride supported heteroleptic iridium complex under visible light irradiation. <b>2017</b> , 123, 371-379	57

537	Fabrication of Bi modified Bi <sub>2</sub> S <sub>3</sub> pillared g-C <sub>3</sub> N <sub>4</sub> photocatalyst and its efficient photocatalytic reduction and oxidation performances. <b>2017</b> , 426, 427-436	60
536	Synergistic immobilization of UO <sub>2</sub> <sup>2+</sup> by novel graphitic carbon nitride @ layered double hydroxide nanocomposites from wastewater. <b>2017</b> , 330, 573-584	104
535	Probing $\pi$ -stacking modulation of g-CN/graphene heterojunctions and corresponding role of graphene on photocatalytic activity. <b>2017</b> , 508, 274-281	48
534	A nitrogen rich polymer as an organo-catalyst for cycloaddition of CO <sub>2</sub> to epoxides and its application for the synthesis of polyurethane. <b>2017</b> , 1, 1620-1629	37
533	Compact carbon nitride based copolymer films with controllable thickness for photoelectrochemical water splitting. <b>2017</b> , 5, 19062-19071	34
532	A Benchmark Quantum Yield for Water Photoreduction on Amorphous Carbon Nitride. <b>2017</b> , 27, 1702384	94
531	Experimental studies on photocatalytic reduction of CO <sub>2</sub> using AgBr decorated g-C <sub>3</sub> N <sub>4</sub> composite in TEA mediated system. <b>2017</b> , 22, 250-261	17
530	Simultaneous photodegradation of multi-herbicides by oxidized carbon nitride: performance and practical application. <b>2017</b> , 219, 194-199	30
529	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. <b>2017</b> , 17, 5891-5896	58
528	Effect of Cu(I) $\pi$ -Active Sites on the N <sub>2</sub> Photofixation Ability over Flowerlike Copper-Doped g-C <sub>3</sub> N <sub>4</sub> Prepared via a Novel Molten Salt-Assisted Microwave Process: The Experimental and Density Functional Theory Simulation Analysis. <b>2017</b> , 5, 6863-6872	53
527	Nitrogen doped carbon nanotubes and nanofibers: Composition, structure, electrical conductivity and capacity properties. <b>2017</b> , 122, 475-483	67
526	Mesoporous carbon nitrides: synthesis, functionalization, and applications. <b>2017</b> , 46, 72-101	427
525	Fabrication and photoelectrochemical properties of silicon nanowires/g-C <sub>3</sub> N <sub>4</sub> core/shell arrays. <b>2017</b> , 396, 609-615	41
524	Microwave-assisted molten-salt rapid synthesis of isotype triazine-/heptazine based g-C <sub>3</sub> N <sub>4</sub> heterojunctions with highly enhanced photocatalytic hydrogen evolution performance. <b>2017</b> , 203, 300-313	222
523	Near-Ultraviolet Fluorescent "ON-OFF-ON" Switching Sensors Based on Nitrogen-Enriched Dual-Color Single-Functional Polymer Carbon Nanosheets. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 6654-675	22
522	Connecting carbon porosity with dispersibility and friability. <b>2017</b> , 112, 117-129	6
521	A comparison of graphitic carbon nitrides synthesized from different precursors through pyrolysis. <b>2017</b> , 332, 32-44	84
520	Investigation for the effects of ball milling process on the physical characteristics, the behaviors of carriers and the photocatalytic activity of sulfur doped g-C <sub>3</sub> N <sub>4</sub> . <b>2017</b> , 42, 5485-5495	15



519	A "turn-off" fluorescent biosensor for the detection of mercury (II) based on graphite carbon nitride. <b>2017</b> , 162, 46-51	43
518	The selectivity of the carboxylate groups terminated carbon dots switched by buffer solutions for the detection of multi-metal ions. <b>2017</b> , 240, 941-948	59
517	Photocatalytic activity of modified g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> nanocomposites for NO <sub>x</sub> removal. <b>2017</b> , 280, 37-44	70
516	A comparison study of alkali metal-doped g-C <sub>3</sub> N <sub>4</sub> for visible-light photocatalytic hydrogen evolution. <b>2017</b> , 38, 1981-1989	183
515	Graphitic C <sub>3</sub> N <sub>4</sub> as a new saturable absorber for the mid-infrared spectral range. <b>2017</b> , 42, 286-289	31
514	Crystalline carbon nitride semiconductors prepared at different temperatures for photocatalytic hydrogen production. <b>2018</b> , 231, 234-241	152
513	Molecular engineering of polymeric carbon nitride: advancing applications from photocatalysis to biosensing and more. <b>2018</b> , 47, 2298-2321	362
512	Highly Crystalline Carbon Nitride Nanosheets for Ultrahigh Photocatalytic Hydrogen Evolution. <b>2018</b> , 2, 490-497	11
511	Effect of Interface Contact Between C and C <sub>3</sub> N <sub>4</sub> on Photocatalytic Water Splitting. <b>2018</b> , 148, 1435-1444	1
510	ZnCr-LDH/N-doped graphitic carbon-incorporated g-C <sub>3</sub> N <sub>4</sub> 2D/2D nanosheet heterojunction with enhanced charge transfer for photocatalysis. <b>2018</b> , 102, 379-390	43
509	Multiplexed ratiometric photoluminescent detection of pyrophosphate using anisotropic boron-doped nitrogen-rich carbon rugby ball-like nanodots. <b>2018</b> , 6, 1771-1781	16
508	Mechanistic insights into 4-nitrophenol degradation and benzyl alcohol oxidation pathways over MgO/g-C <sub>3</sub> N <sub>4</sub> model catalyst systems. <b>2018</b> , 8, 2825-2834	27
507	Chapter 2:Theoretical Design of PEC Materials. <b>2018</b> , 29-61	1
506	Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds. <b>2018</b> , 5, 642-652	82
505	Oxidation behavior of Si <sub>3</sub> N <sub>4</sub> fibers derived from polycarbosilane. <b>2018</b> , 136, 9-17	15
504	Dynamic Nuclear Polarization NMR Spectroscopy of Polymeric Carbon Nitride Photocatalysts: Insights into Structural Defects and Reactivity. <b>2018</b> , 130, 6964-6968	16
503	Dynamic Nuclear Polarization NMR Spectroscopy of Polymeric Carbon Nitride Photocatalysts: Insights into Structural Defects and Reactivity. <b>2018</b> , 57, 6848-6852	31
502	Visible-Light Heterogeneous Catalysts for Photocatalytic CO <sub>2</sub> Reduction. <b>2018</b> , 421-446	5

501	Multicationic Sr <sub>4</sub> Mn <sub>3</sub> O <sub>10</sub> mesostructures: molten salt synthesis, analytical electron microscopy study and reactivity. <b>2018</b> , 5, 480-485	4
500	Graphitic carbon subnitride: Synthesis, structure, electron and proton transport, photoluminescence and thermoelectric properties. <b>2018</b> , 209, 95-106	
499	Fe(III)-Doped g-CN Mediated Peroxymonosulfate Activation for Selective Degradation of Phenolic Compounds via High-Valent Iron-Oxo Species. <b>2018</b> , 52, 2197-2205	365
498	Fabrication and Photocatalytic Application of Aromatic Ring Functionalized Melem Oligomers. <b>2018</b> , 122, 3506-3512	12
497	Photocatalytic hydrogen peroxide production by anthraquinone-augmented polymeric carbon nitride. <b>2018</b> , 229, 121-129	96
496	Multiaspect insight into synergetic modification of carbon nitride with halide salt and water vapor. <b>2018</b> , 229, 204-210	11
495	2D Heterostructure Membranes with Sunlight-Driven Self-Cleaning Ability for Highly Efficient Oil/Water Separation. <b>2018</b> , 28, 1706545	123
494	Graphitic Carbon Nitride as a Distinct Solid Stabilizer for Emulsion Polymerization. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2286-2291	4.8 27
493	Enhanced Solar Light Absorption and Photoelectrochemical Conversion Using TiN Nanoparticle-Incorporated CN-C Dot Sheets. <b>2018</b> , 10, 2460-2468	46
492	Fluorescence sensor based on glutathione capped CdTe QDs for detection of Cr <sup>3+</sup> ions in vitamins. <b>2018</b> , 7, 71-76	11
491	Structuring phase junction between tri-s-triazine and triazine crystalline C <sub>3</sub> N <sub>4</sub> for efficient photocatalytic hydrogen evolution. <b>2018</b> , 227, 153-160	82
490	Graphitic carbon nitride nanosheets as highly efficient photocatalysts for phenol degradation under high-power visible LED irradiation. <b>2018</b> , 100, 322-332	52
489	Carbon nanotubes-modified graphitic carbon nitride photocatalysts with synergistic effect of nickel(II) sulfide and molybdenum(II) disulfide co-catalysts for more efficient H evolution. <b>2018</b> , 526, 374-383	21
488	Mesoporous g-C <sub>3</sub> N <sub>4</sub> nanosheets prepared by calcining a novel supramolecular precursor for high-efficiency photocatalytic hydrogen evolution. <b>2018</b> , 450, 46-56	63
487	Visible-light-driven dynamic cancer therapy and imaging using graphitic carbon nitride nanoparticles. <b>2018</b> , 90, 531-538	15
486	Synergetic combination of 1D-2D g-C <sub>3</sub> N <sub>4</sub> heterojunction nanophotocatalyst for hydrogen production via water splitting under visible light irradiation. <b>2018</b> , 127, 433-443	37
485	Moisture stable Ni-Zn MOF/g-CN nanoflowers: A highly efficient adsorbent for solid-phase microextraction of PAHs. <b>2018</b> , 1556, 37-46	49
484	Ammonia-evaporation-induced construction of three-dimensional NiO/g-C <sub>3</sub> N <sub>4</sub> composite with enhanced adsorption and visible light-driven photocatalytic performance. <b>2018</b> , 119, 122-133	18

483	Facile synthesis of carbon-rich g-C <sub>3</sub> N <sub>4</sub> by copolymerization of urea and tetracyanoethylene for photocatalytic degradation of Orange II. <b>2018</b> , 358, 61-69	21
482	An ultrasensitive electrochemiluminescent immunosensor based on graphene oxide coupled graphite-like carbon nitride and multiwalled carbon nanotubes-gold for the detection of diclofenac. <b>2018</b> , 101, 260-267	44
481	Enhanced NO <sub>2</sub> abatement by alkaline-earth modified g-C <sub>3</sub> N <sub>4</sub> nanocomposites for efficient air purification. <b>2018</b> , 430, 225-233	23
480	Direct catalytic hydroxylation of benzene to phenol catalyzed by vanadia supported on exfoliated graphitic carbon nitride. <b>2018</b> , 549, 31-39	31
479	Silver/Silver(II) oxide (Ag/AgO) loaded graphitic carbon nitride microspheres: An effective visible light active photocatalyst for degradation of acidic dyes and bacterial inactivation. <b>2018</b> , 221, 339-348	93
478	Unexpected ground-state structures and properties of carbon nitride C <sub>3</sub> N at ambient and high pressures. <b>2018</b> , 140, 45-53	2
477	Photocatalytic degradation of organic contaminants by g-CN/EPDM nanocomposite film: Viable, efficient and facile recoverable. <b>2018</b> , 84, 188-194	7
476	A nanosheet-like Bi <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterostructure modified by plasmonic metallic Bi and oxygen vacancies with high photodegradation activity of organic pollutants. <b>2018</b> , 193, 232-241	82
475	First principles investigation of the electronic properties of graphitic carbon nitride with different building block and sheet staggered arrangement. <b>2018</b> , 735, 131-139	23
474	Visible light-driven superoxide generation by conjugated polymers for organic synthesis. <b>2018</b> , 11, 1099-1108	8
473	Metal-Free Organic Semiconductors for Visible-Light-Active Photocatalytic Water Splitting. <b>2018</b> , 329-363	
472	Enhanced Z-scheme photocatalytic activity of a Bi-conjugated heterojunction: MIL-53(Fe)/Ag/g-C <sub>3</sub> N <sub>4</sub> . <b>2018</b> , 42, 18598-18607	20
471	Ordered Mesoporous C <sub>3</sub> N <sub>5</sub> with a Combined Triazole and Triazine Framework and Its Graphene Hybrids for the Oxygen Reduction Reaction (ORR). <b>2018</b> , 130, 17381-17386	44
470	Ordered Mesoporous C <sub>3</sub> N <sub>4</sub> with a Combined Triazole and Triazine Framework and Its Graphene Hybrids for the Oxygen Reduction Reaction (ORR). <b>2018</b> , 57, 17135-17140	92
469	Molecular Doping of Electrochemically Prepared Triazine-Based Carbon Nitride by 2,4,6-Triaminopyrimidine for Improved Photocatalytic Properties. <b>2018</b> , 3, 17042-17048	11
468	Comprehensive insight into the support effect of graphitic carbon nitride for zinc halides on the catalytic transformation of CO <sub>2</sub> into cyclic carbonates. <b>2018</b> , 8, 5582-5593	23
467	Photocatalytic Carbon Nitride Materials with Nanoscale Features Synthesized from the Rapid and Low-Temperature Decomposition of Trichloromelamine. <b>2018</b> , 1, 5944-5956	10
466	Synthesis, Structure and Electronic Properties of Graphitic Carbon Nitride Films. <b>2018</b> , 122, 25183-25194	38

465	Pressure-Tuneable Visible-Range Band Gap in the Ionic Spinel Tin Nitride. <b>2018</b> , 130, 11797-11802	3
464	Carbon nitrides and metal nanoparticles: from controlled synthesis to design principles for improved photocatalysis. <b>2018</b> , 47, 7783-7817	167
463	The electronic and optical properties of carbon nitride derivatives: A first principles study. <b>2018</b> , 453, 442-448	20
462	Nitrile chain reactions for cyano-based ionic liquid derived mesoporous carbon as efficient bifunctional electrocatalyst. <b>2018</b> , 280, 258-265	7
461	Effective Determination of Zn <sup>2+</sup> , Mn <sup>2+</sup> , and Cu <sup>2+</sup> Simultaneously By Using Dual-Emissive Carbon Dots as Colorimetric Fluorescent Probe. <b>2018</b> , 2018, 3418-3426	18
460	Synthesis of band gap-tunable alkali metal modified graphitic carbon nitride with outstanding photocatalytic H <sub>2</sub> O <sub>2</sub> production ability via molten salt method. <b>2018</b> , 34, 1932-1938	26
459	Molten salt assisted in-situ synthesis of TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> composites with enhanced visible-light-driven photocatalytic activity and adsorption ability. <b>2018</b> , 362, 1-13	32
458	Ionothermal Synthesis of Triazine-Heptazine-Based Copolymers with Apparent Quantum Yields of 60 % at 420 nm for Solar Hydrogen Production from "Sea Water". <b>2018</b> , 57, 9372-9376	259
457	Nanoscale Probing of Local Hydrogen Heterogeneity in Disordered Carbon Nitrides with Vibrational Electron Energy-Loss Spectroscopy. <b>2018</b> , 12, 5463-5472	33
456	High-performance NiO/g-C <sub>3</sub> N <sub>4</sub> composites for visible-light-driven photocatalytic overall water splitting. <b>2018</b> , 5, 1646-1652	58
455	Li <sup>ion</sup> -Conducting Pillar-Like Graphitic Carbon Nitrides as Novel Anodes for Li <sup>ion</sup> Batteries. <b>2018</b> , 3, 5364-5376	6
454	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. <b>2018</b> , 138, 69-75	15
453	Ni, Pd, and Pt-embedded graphitic carbon nitrides as excellent adsorbents for HCN removal: A DFT study. <b>2018</b> , 456, 882-889	26
452	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
451	Mechanical behaviors and electronic characteristics on two-dimensional C <sub>2</sub> N <sub>3</sub> and C <sub>2</sub> N <sub>3</sub> H: First principles calculations. <b>2018</b> , 103, 252-263	12
450	Chemical vs thermal exfoliation of g-C <sub>3</sub> N <sub>4</sub> for NO <sub>x</sub> removal under visible light irradiation. <b>2018</b> , 239, 16-26	102
449	Potential-resolved Faraday cage-type electrochemiluminescence biosensor for simultaneous determination of miRNAs using functionalized g-CN and metal organic framework nanosheets. <b>2018</b> , 118, 247-252	41
448	High wear-resistant performance of thermosetting polyimide reinforced by graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) under high temperature. <b>2018</b> , 113, 200-208	45

- 447 Graphitic carbon nitride prepared from urea as a photocatalyst for visible-light carbon dioxide reduction with the aid of a mononuclear ruthenium(II) complex. **2018**, 14, 1806-1812 23
- 446 Synthesis of a g-CN-CuO heterojunction with enhanced visible light photocatalytic activity by PEG. **2018**, 531, 28-36 39
- 445 An Electrochemical Sensor of Poly(EDOT-pyridine-EDOT)/Graphitic Carbon Nitride Composite for Simultaneous Detection of Cd and Pb. **2018**, 11, 21
- 444 Pressure-Tuneable Visible-Range Band Gap in the Ionic Spinel Tin Nitride. **2018**, 57, 11623-11628 16
- 443 Two channel photocatalytic hydrogen peroxide production using g-C<sub>3</sub>N<sub>4</sub> coated CuO nanorod heterojunction catalysts prepared via a novel molten salt-assisted microwave process. **2018**, 42, 13529-13535 22
- 442 Confining the polymerization degree of graphitic carbon nitride in porous zeolite-Y and its luminescence. **2018**, 8, 25057-25064 6
- 441 Review on fabrication of graphitic carbon nitride based efficient nanocomposites for photodegradation of aqueous phase organic pollutants. **2018**, 67, 28-51 204
- 440 Self assembly and controlled drug release of a nano-laminated graphite carbon nitride/methotrexate complex. **2018**, 29, 116 6
- 439 Facile synthesis of nitrogen deficient g-C<sub>3</sub>N<sub>4</sub> by copolymerization of urea and formamide for efficient photocatalytic hydrogen evolution. **2018**, 453, 85-92 27
- 438 Excitation-dependent carbon dots powders based on dehydration condensation by microwave hydrothermal method. **2018**, 53, 15907-15914 13
- 437 Ground-state structures, physical properties and phase diagram of carbon-rich nitride CN. **2018**, 30, 385402 7
- 436 One-Pot Fabrication of Perforated Graphitic Carbon Nitride Nanosheets Decorated with Copper Oxide by Controlled Ammonia and Sulfur Trioxide Release for Enhanced Catalytic Activity. **2018**, 3, 9318-9332 17
- 435 Ionothermal Synthesis of Triazine/Heptazine-Based Copolymers with Apparent Quantum Yields of 60 % at 420 nm for Solar Hydrogen Production from Sea Water **2018**, 130, 9516-9520 49
- 434 Facile synthesis of Fe-containing graphitic carbon nitride materials and their catalytic application in direct hydroxylation of benzene to phenol. **2018**, 39, 1263-1271 16
- 433 Photocatalytic coupled redox cycle for two organic transformations over Pd/carbon nitride composites. **2019**, 9, 5077-5089 16
- 432 Full-Color Chemically Modulated g-C<sub>3</sub>N<sub>4</sub> for White-Light-Emitting Device. **2019**, 7, 1900775 15
- 431 Electron Deficient Monomers that Optimize Nucleation and Enhance the Photocatalytic Redox Activity of Carbon Nitrides. **2019**, 58, 14950-14954 74
- 430 Electronic, structural, optical, and photocatalytic properties of graphitic carbon nitride. **2019**, 43, 13647-13653 17

429	Photoluminescence of carbon dots prepared by ball milling and their application in Hela cell imaging. <b>2019</b> , 125, 1	5
428	Electrochemiluminescence sensing platform for ultrasensitive DNA analysis based on resonance energy transfer between graphitic carbon nitride quantum dots and gold nanoparticles. <b>2019</b> , 297, 126790	23
427	Heterojunction semiconductor g-C3N4/BiVO4 with an enhanced photocatalytic activity based on the effective chemical bonding. <b>2019</b> , 34, 827-837	6
426	Boosting photocatalytic hydrogen evolution rate over carbon nitride through tuning its crystallinity and its nitrogen composition. <b>2019</b> , 555, 268-275	6
425	Elastic behavior and intrinsic carrier mobility for monolayer SnS and SnSe: First-principles calculations. <b>2019</b> , 492, 435-448	31
424	Steering charge kinetics boost the photocatalytic activity of graphitic carbon nitride: heteroatom-mediated spatial charge separation and transfer. <b>2019</b> , 53, 015502	23
423	Influence of Cu + g-C3N4 incorporation on the photocatalytic dye decomposition of ZnO film coated on stainless steel wire meshes. <b>2019</b> , 30, 19703-19717	8
422	Host-Guest Recognition on 2D Graphitic Carbon Nitride for Nanosensing. <b>2019</b> , 6, 1901429	20
421	Regulating Polymerization in Graphitic Carbon Nitride To Improve Photocatalytic Activity. <b>2019</b> , 31, 9188-9199	28
420	Holey g-C3N4 nanosheet wrapped Ag3PO4 photocatalyst and its visible-light photocatalytic performance. <b>2019</b> , 191, 70-77	23
419	Synthesis and characterization of Z-scheme Fe2O3 NTs/ruptured tubular g-C3N4 for enhanced photoelectrochemical water oxidation. <b>2019</b> , 193, 403-412	33
418	Bacillus licheniformis escapes from Myxococcus xanthus predation by deactivating myxovirescin A through enzymatic glucosylation. <b>2019</b> , 21, 4755-4772	12
417	Electron Deficient Monomers that Optimize Nucleation and Enhance the Photocatalytic Redox Activity of Carbon Nitrides. <b>2019</b> , 131, 15092-15096	12
416	Ionic Carbon Nitrides in Solar Hydrogen Production and Organic Synthesis: Exciting Chemistry and Economic Advantages. <b>2019</b> , 11, 6166-6176	34
415	Preparation of NiCoP-decorated g-C3N4 as an efficient photocatalyst for H2O2 production. <b>2019</b> , 45, 5907-5917	20
414	K and halogen binary-doped graphitic carbon nitride (g-C3N4) toward enhanced visible light hydrogen evolution. <b>2019</b> , 44, 27704-27712	21
413	Unraveling the Structure of the Poly(triazine imide)/LiCl Photocatalyst: Cooperation of Facile Syntheses and a Low-Temperature Synchrotron Approach. <b>2019</b> , 58, 15880-15888	9
412	Highly Sensitive and Selective Fluorescence Probe for 2,4-Dinitrophenylhydrazine Detection in Wastewater Using Water-Soluble CdTe QDs. <b>2019</b> , 95, 895-900	8

411	Structure Tuning of Polymeric Carbon Nitride for Solar Energy Conversion: From Nano to Molecular Scale. <b>2019</b> , 5, 2775-2813	54
410	Novel ternary BiOI/g-C3N4/CeO2 catalysts for enhanced photocatalytic degradation of tetracycline under visible-light radiation via double charge transfer process. <b>2019</b> , 809, 151804	41
409	Recent Advances in Graphene-like 2D Materials for Spintronics Applications. <b>2019</b> , 31, 8260-8285	60
408	Environmental remediation by microporous carbon: An efficient contender for CO2 and methylene blue adsorption. <b>2019</b> , 34, 656-667	32
407	Two-Dimensional COF with Rather Low Exciton Binding Energies Comparable to 3D Inorganic Semiconductors in the Visible Range for Water Splitting. <b>2019</b> , 123, 24626-24633	6
406	Rapid and template-free synthesis of copper(I) oxide-graphitic carbon nitride heterojunction for photocatalytic degradation of orange II dye in water. <b>2019</b> , 97, 105994	11
405	In situ growth of triazine/heptazine based carbon nitride film for efficient (photo)electrochemical performance. <b>2019</b> , 9, 425-435	15
404	Synergistic effect of g-C3N4, Ni(OH)2 and halloysite in nanocomposite photocatalyst on efficient photocatalytic hydrogen generation. <b>2019</b> , 138, 434-444	22
403	Solid salt confinement effect: An effective strategy to fabricate high crystalline polymer carbon nitride for enhanced photocatalytic hydrogen evolution. <b>2019</b> , 246, 349-355	62
402	One-Pot Ionothermal Synthesized Carbon Nitride Heterojunction Nanorods for Simultaneous Photocatalytic Reduction and Oxidation Reactions: Synergistic Effect and Mechanism Insight. <b>2019</b> , 7, 5122-5133	37
401	Formation of an ion-free crystalline carbon nitride and its reversible intercalation with ionic species and molecular water. <b>2019</b> , 10, 2519-2528	18
400	Carbon nanospheres with dual-color emission and their application in ratiometric pyrophosphate sensing. <b>2019</b> , 144, 550-558	11
399	Cesium Salts as Mild Chemical Scissors To Trim Carbon Nitride for Photocatalytic H2 Evolution. <b>2019</b> ,	1
398	Recent development in graphitic carbon nitride based photocatalysis for hydrogen generation. <b>2019</b> , 257, 117855	144
397	Whether Corrugated or Planar Vacancy Graphene-like Carbon Nitride (g-C3N4) Is More Effective for Nitrogen Reduction Reaction?. <b>2019</b> , 123, 17296-17305	27
396	Oxygen Reduction Reaction Activity of Microwave Mediated Solvothermal Synthesized CeO/g-CN Nanocomposite. <b>2019</b> , 7, 403	21
395	Atomic and electronic structures of graphene-decorated graphitic carbon nitride (g-C3N4) as a metal-free photocatalyst under visible-light. <b>2019</b> , 256, 117850	10
394	Self-Coupled g-C3N4 van der Waals Heterojunctions for Enhanced Photocatalytic Hydrogen Production. <b>2019</b> , 2, 4692-4699	16

393	Ultra-Thin Conductive Graphitic Carbon Nitride Assembly through van der Waals Epitaxy toward High-Energy-Density Flexible Supercapacitors. <b>2019</b> , 19, 4103-4111	55
392	Unique electronic structure of Mg/O co-decorated amorphous carbon nitride enhances the photocatalytic tetracycline hydrochloride degradation. <b>2019</b> , 40, 776-785	8
391	Fabrication of protonated g-CN nanosheets as promising proton conductive materials. <b>2019</b> , 55, 7414-7417	7
390	Directional Charge Transport in Layered Two-Dimensional Triazine-Based Graphitic Carbon Nitride. <b>2019</b> , 131, 9494-9498	10
389	Directional Charge Transport in Layered Two-Dimensional Triazine-Based Graphitic Carbon Nitride. <b>2019</b> , 58, 9394-9398	31
388	Three-dimensional network structure assembled by g-C <sub>3</sub> N <sub>4</sub> nanorods for improving visible-light photocatalytic performance. <b>2019</b> , 255, 117761	95
387	From Heptazines to Triazines [On the Formation of Poly(triazine imide)]. <b>2019</b> , 645, 857-862	20
386	Conjugated Electron Donor/Acceptor Hybrid Polymeric Carbon Nitride as a Photocatalyst for CO Reduction. <b>2019</b> , 24,	44
385	High-performance carbon monoxide gas sensor based on palladium/tin oxide/porous graphitic carbon nitride nanocomposite. <b>2019</b> , 795, 79-90	22
384	Influence of the gas atmosphere during the synthesis of g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic H <sub>2</sub> production from water on Au/g-C <sub>3</sub> N <sub>4</sub> composites. <b>2019</b> , 7, 14849-14863	48
383	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
382	Pyrolysis of functional cellulose by ionothermal method to synthesis of mesoporous triazine carbon for supporting of Pd and its application. <b>2019</b> , 217, 199-206	16
381	Semiconductor polymeric graphitic carbon nitride photocatalysts: the Holy grail for the photocatalytic hydrogen evolution reaction under visible light. <b>2019</b> , 12, 2080-2147	470
380	Fast photogenerated electron transfer in N-GQDs/PTI/ZnO-QDs ternary heterostructured nanosheets for photocatalytic H <sub>2</sub> evolution under visible light. <b>2019</b> , 485, 361-367	7
379	Enhanced Visible Light Photocatalytic Reduction of Cr(VI) over a Novel Square Nanotube Poly(Triazine Imide)/TiO <sub>2</sub> Heterojunction. <b>2019</b> , 9, 55	10
378	Doping-induced enhancement of crystallinity in polymeric carbon nitride nanosheets to improve their visible-light photocatalytic activity. <b>2019</b> , 11, 6876-6885	93
377	Molten salt assistant synthesis of three-dimensional cobalt doped graphitic carbon nitride for photocatalytic N <sub>2</sub> fixation: Experiment and DFT simulation analysis. <b>2019</b> , 368, 896-904	45
376	Acid Phosphatase Invoked Exquisite Enzyme Cascade for Amplified Colorimetric Bioassay. <b>2019</b> , 7, 7572-7579	14



375	In situ growth of orthorhombic Sb <sub>2</sub> WO <sub>6</sub> hierarchical structures on reduced graphene oxide (RGO) sheets via solvothermal approach for superior and substantially improved visible-light driven photocatalytic activity. <b>2019</b> , 30, 5965-5977	7
374	Density functional calculations of efficient H <sub>2</sub> separation from impurity gases (H <sub>2</sub> , N <sub>2</sub> , H <sub>2</sub> O, CO, Cl <sub>2</sub> , and CH <sub>4</sub> ) via bilayer g-C <sub>3</sub> N <sub>4</sub> membrane. <b>2019</b> , 28, 048102	7
373	Single-stranded DNA modified protonated graphitic carbon nitride nanosheets: A versatile ratiometric fluorescence platform for multiplex detection of various targets. <b>2019</b> , 197, 422-430	4
372	A first blue fluorescence composite film based on graphitic carbon nitride nanosheets/polyoxometalate for application in reversible electroluminescence switching. <b>2019</b> , 7, 3253-3262	6
371	Effect of (super)alkali doping on the electronic and second-order nonlinear optical properties of graphitic C <sub>3</sub> N <sub>4</sub> . <b>2019</b> , 183, 455-462	13
370	Structure and reactivity of 2,4,6-tricyano-1,3,5-triazine under high-pressure conditions. <b>2019</b> , 21, 4493-4500	4
369	CN: A Low Bandgap Semiconductor Containing an Azo-Linked Carbon Nitride Framework for Photocatalytic, Photovoltaic and Adsorbent Applications. <b>2019</b> , 141, 5415-5436	208
368	Enhanced Visible-Light-Induced Photocatalytic Performance of g-C <sub>3</sub> N <sub>4</sub> /ZnS/CuS Ternary Composite for Environmental Remediation. <b>2019</b> , 678, 012129	2
367	Highly crystalline lithium chloride-intercalated graphitic carbon nitride hollow nanotubes for effective lead removal. <b>2019</b> , 6, 3324-3335	12
366	Quenching induced hierarchical 3D porous g-CN with enhanced photocatalytic CO reduction activity. <b>2019</b> , 55, 14023-14026	56
365	Construction of ZnO Hollow Spheres Coupled with g-C <sub>3</sub> N <sub>4</sub> as Enhanced Photocatalysts under Simulated Solar Light. <b>2019</b> , 678, 012128	1
364	A bromine-catalysis-synthesized poly(3,4-ethylenedioxythiophene)/graphitic carbon nitride electrochemical sensor for heavy metal ion determination.. <b>2019</b> , 9, 34691-34698	8
363	Facile oxalic acid-assisted construction of laminated porous N-deficient graphitic carbon nitride: Highly efficient visible-light-driven hydrogen evolution photocatalyst. <b>2019</b> , 33, 1-8	19
362	Sodium alginate-templated synthesis of g-CN/carbon spheres/Cu ternary nanohybrids for fire safety application. <b>2019</b> , 539, 1-10	46
361	A novel poly(triazine imide) hollow tube/ZnO heterojunction for tetracycline hydrochloride degradation under visible light irradiation. <b>2019</b> , 30, 359-365	8
360	The metal-free magnetism and ferromagnetic narrow gap semiconductor properties in graphene-like carbon nitride. <b>2019</b> , 555, 91-95	5
359	Tailoring the Grain Boundary Chemistry of Polymeric Carbon Nitride for Enhanced Solar Hydrogen Production and CO Reduction. <b>2019</b> , 58, 3433-3437	197
358	Tailoring the Grain Boundary Chemistry of Polymeric Carbon Nitride for Enhanced Solar Hydrogen Production and CO <sub>2</sub> Reduction. <b>2019</b> , 131, 3471-3475	44

357	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. <b>2019</b> , 131, 6225-6236	52
356	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. <b>2019</b> , 58, 6164-6175	312
355	Domestic LED light driven methylene blue degradation by g-C <sub>3</sub> N <sub>4</sub> -CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> composite. <b>2019</b> , 467-468, 543-553	12
354	Synthesis of Y-doped CeO <sub>2</sub> /PCN nanocomposited photocatalyst with promoted photoredox performance. <b>2019</b> , 243, 513-521	58
353	Enhanced visible-light-driven photocatalytic H <sub>2</sub> evolution on the novel nitrogen-doped carbon dots/CuBi <sub>2</sub> O <sub>4</sub> microrods composite. <b>2019</b> , 775, 511-517	67
352	Cyano group modified carbon nitride with enhanced photoactivity for selective oxidation of benzylamine. <b>2019</b> , 242, 67-75	54
351	Organic Photocatalysis: Carbon Nitride Semiconductors vs. Molecular Catalysts. <b>2020</b> , 2020, 1294-1309	40
350	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
349	Modifying Crystallinity, Morphology, and Photophysical Properties of Carbon Nitride by Using Crystals as Reactants. <b>2020</b> , 60, 544-549	1
348	Synthesis, characterization and application of silver doped graphitic carbon nitride as photocatalyst towards visible light photocatalytic hydrogen evolution. <b>2020</b> , 45, 23937-23946	21
347	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
346	Direct Catalytic Hydroxylation of Benzene to Phenol Catalyzed by FeCl <sub>3</sub> Supported on Exfoliated Graphitic Carbon Nitride. <b>2020</b> , 150, 301-311	4
345	Supramolecule self-assembly synthesis of condensed C-TA/g-C <sub>3</sub> N <sub>4</sub> composites for promoting charge transfer and photocatalytic H <sub>2</sub> evolution. <b>2020</b> , 504, 144354	11
344	Synthesis of nitrogen vacancies g-C <sub>3</sub> N <sub>4</sub> with increased crystallinity under the controlling of oxalyl dihydrazide: Visible-light-driven photocatalytic activity. <b>2020</b> , 505, 144576	14
343	A comparative photocatalytic study of pure and acid-etched template free graphitic C <sub>3</sub> N <sub>4</sub> on different dyes: An investigation on the influence of surface modifications. <b>2020</b> , 243, 122402	9
342	Mechanical and thermal performances of epoxy resin/graphitic carbon nitride composites. <b>2020</b> , 137, 48598	3
341	Experimental design for optimization of 4-nitrophenol reduction by green synthesized CeO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> /Ag catalyst using response surface methodology. <b>2020</b> , 38, 1171-1177	7
340	Novel application of g-C <sub>3</sub> N <sub>4</sub> /NaNbO <sub>3</sub> composite for photocatalytic selective oxidation of biomass-derived HMF to FFCA under visible light irradiation. <b>2020</b> , 31, 1148-1159	31

339	Phosphorus-doped porous carbon nitride for efficient sole production of hydrogen peroxide via photocatalytic water splitting with a two-channel pathway. <b>2020</b> , 8, 3701-3707	48
338	ZnCr-CO <sub>3</sub> LDH/ruptured tubular g-C <sub>3</sub> N <sub>4</sub> composite with increased specific surface area for enhanced photoelectrochemical water splitting. <b>2020</b> , 508, 145100	25
337	Polyacrylonitrile Nanofibers Incorporating Silver-Decorated Graphitic Carbon Nitride for the Visible-Light-Activated Selective Oxidation of Styrene, Benzylic Methylene Groups, and Benzene. <b>2020</b> , 3, 1922-1933	11
336	Highly efficient conversion of the nitroarenes to amines at the interface of a ternary hybrid containing silver nanoparticles doped reduced graphene oxide/ graphitic carbon nitride under visible light. <b>2020</b> , 387, 121700	23
335	Photocatalysis: an overview of recent developments and technological advancements. <b>2020</b> , 63, 149-181	63
334	Influence of nonmetal dopants on charge separation of graphitic carbon nitride by time-dependent density functional theory. <b>2020</b> , 22, 647-657	10
333	Recent developments in carbon nitride based films for photoelectrochemical water splitting. <b>2020</b> , 4, 485-503	44
332	Metal-free synthesis of dimethyl carbonate via transesterification of ethylene carbonate catalyzed by graphitic carbon nitride materials. <b>2020</b> , 44, 3215-3223	7
331	KOH-Assisted Band Engineering of Polymeric Carbon Nitride for Visible Light Photocatalytic Oxygen Reduction to Hydrogen Peroxide. <b>2020</b> , 8, 594-603	28
330	Facile synthesis of pure g-C <sub>3</sub> N <sub>4</sub> materials for peroxymonosulfate activation to degrade bisphenol A: Effects of precursors and annealing ambience on catalytic oxidation. <b>2020</b> , 387, 123726	47
329	Synthesis of Copolymerized Carbon Nitride Nanosheets from Urea and 2-Aminobenzonitrile for Enhanced Visible Light CO <sub>2</sub> Reduction with a Ruthenium(II) Complex Catalyst. <b>2020</b> , 4, 1900461	7
328	Fabrication and Photodegradation Application of Isopropanol-Functionalized Poly (Triazine Imide). <b>2020</b> , 49, 1518-1526	2
327	Graphitic carbon nitride with different dimensionalities for energy and environmental applications. <b>2020</b> , 13, 18-37	102
326	Precursor-Engineering Coupled Microwave Molten-Salt Strategy Enhances Photocatalytic Hydrogen Evolution Performance of g-C N Nanostructures. <b>2020</b> , 13, 827-837	26
325	Surface-state-induced upward band bending in P doped g-C <sub>3</sub> N <sub>4</sub> for the formation of an isotype heterojunction between bulk g-C <sub>3</sub> N <sub>4</sub> and P doped g-C <sub>3</sub> N <sub>4</sub> : photocatalytic hydrogen production. <b>2020</b> , 10, 8015-8025	6
324	Nickel hydroxide and zinc hydroxystannate dual modified graphite carbon nitride for the flame retardancy and smoke suppression of epoxy resin. <b>2020</b> , 182, 109366	11
323	Aquaporin-like water transport in nanoporous crystalline layered carbon nitride. <b>2020</b> , 6,	7
322	Integrating Z-scheme heterojunction of Co <sub>1</sub> -C <sub>3</sub> N <sub>4</sub> @Fe <sub>2</sub> O <sub>3</sub> for efficient visible-light-driven photocatalytic CO <sub>2</sub> reduction. <b>2020</b> , 22, 7552-7559	15

321	Crystalline carbon nitride for photocatalytic phenol degradation: Effect of precursor and salt melt amounts. <b>2020</b> ,	
320	Decomposition of ammonium perchlorate: Exploring catalytic activity of nanocomposites based on nano Cu/Cu <sub>2</sub> O dispersed on graphitic carbon nitride. <b>2020</b> , 691, 178720	13
319	Optimizing the crystallization process of conjugated polymer photocatalysts to promote electron transfer and molecular oxygen activation. <b>2020</b> , 389, 636-645	22
318	Synthesis of Zn doped g-C <sub>3</sub> N <sub>4</sub> in KCl-ZnCl <sub>2</sub> molten salts: The temperature window for promoting the photocatalytic activity. <b>2020</b> , 533, 147429	10
317	LiClO <sub>4</sub> /TiO <sub>2</sub> nanotubes ceramic films with highly efficient visible light - Driven photocatalytic active for bisphenol A degradation and efficient regeneration process. <b>2020</b> , 46, 26492-26501	5
316	Colloidal properties of the metal-free semiconductor graphitic carbon nitride. <b>2020</b> , 283, 102229	21
315	Binder-free heterostructure (g-C <sub>3</sub> N <sub>4</sub> /PPy) based thin film on semi-flexible nickel foam via hybrid spray technique for energy storage application. <b>2020</b> , 30, 298-307	7
314	A new concept: Volume photocatalysis for efficient H <sub>2</sub> generation __ Using low polymeric carbon nitride as an example. <b>2020</b> , 279, 119379	49
313	Enhanced production of H <sub>2</sub> under visible light via co-deposited Pt and Ir species on g-C <sub>3</sub> N <sub>4</sub> . <b>2020</b> , 10, 6378-6386	2
312	First Principle Study of Na and P Co-Doped Heptazine Based Monolayer g-C <sub>3</sub> N <sub>4</sub> . <b>2020</b> , 978, 369-376	1
311	LaOCl-Coupled Polymeric Carbon Nitride for Overall Water Splitting through a One-Photon Excitation Pathway. <b>2020</b> , 59, 20919-20923	37
310	LaOCl-Coupled Polymeric Carbon Nitride for Overall Water Splitting through a One-Photon Excitation Pathway. <b>2020</b> , 132, 21105-21109	4
309	Ionothermal Route to Phase-Pure RuB <sub>2</sub> Catalysts for Efficient Oxygen Evolution and Water Splitting in Acidic Media. <b>2020</b> , 5, 2909-2915	56
308	Exploring The Effect of Precursors of Polymeric Carbon Nitride Nanosheets on their Photo and Electrocatalytic Applications. <b>2020</b> , 5, 12679-12689	1
307	Selective adsorption of propene over propane on Li-decorated poly (triazine imide). <b>2020</b> , 7, 307-307	2
306	g-C <sub>3</sub> N <sub>4</sub> -based photoelectrodes for photoelectrochemical water splitting: a review. <b>2020</b> , 8, 21474-21502	57
305	One-Step Synthesis of Visible Range Luminescent Multicomponent Semiconductor Composites Based on Graphitic Carbon Nitride. <b>2020</b> , 1, 2000004	2
304	Self-supported CdSe nanowire/nanosheet photoanodes on cadmium foil via in situ hydrothermal transformation of CdSe(en) complex nanostructures. <b>2020</b> , 12, 19241-19252	1

303	Emerging Concepts in Carbon Nitride Organic Photocatalysis. <b>2020</b> , 85, 2499-2517		11
302	Density Functional Theory Study of Single-Atom V, Nb, and Ta Catalysts on Graphene and Carbon Nitride for Selective Nitrogen Reduction. <b>2020</b> , 3, 5149-5159		25
301	Fabrication of spherical-graphitic carbon nitride via hydrothermal method for enhanced photo-degradation ability towards antibiotic. <b>2020</b> , 753, 137604		11
300	Efficient hydroxylation of benzene to phenol by H <sub>2</sub> O <sub>2</sub> using Ni-doped CuWO <sub>4</sub> on carbon nitride as a catalyst under solar irradiation and its structure–activity correlation. <b>2020</b> , 8, 12774-12789		18
299	Polymeric carbon nitrides and related metal-free materials for energy and environmental applications. <b>2020</b> , 8, 11075-11116		82
298	Biuret-A Crucial Reaction Intermediate for Understanding Urea Pyrolysis To Form Carbon Nitrides: Crystal-Structure Elucidation and In Situ Diffractometric, Vibrational and Thermal Characterisation. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 14366-14376	4.8	4
297	One-step synthesis of P-doped poly(triazine imide) nanotubes with hybrid 1D/1D architecture and high-efficiency photocatalytic performance. <b>2020</b> , 55, 13675-13686		5
296	Graphitic carbon nitride-Based nanocomposite materials for photocatalytic hydrogen generation. <b>2020</b> , 293-324		3
295	Tuning the nitrogen content of carbon dots in carbon nitride nanoflakes. <b>2020</b> , 167, 230-243		8
294	Structure of Photoluminescence Spectra of Oxygen-Doped Graphitic Carbon Nitride. <b>2020</b> , 87, 9-14		3
293	High-efficiency photocatalytic water splitting by a N-doped porous g-C <sub>3</sub> N <sub>4</sub> nanosheet polymer photocatalyst derived from urea and N,N-dimethylformamide. <b>2020</b> , 7, 1770-1779		68
292	Molecular-level insights on the reactive facet of carbon nitride single crystals photocatalysing overall water splitting. <b>2020</b> , 3, 649-655		173
291	Novel synthesis of Z-scheme Bi <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> composite photocatalyst and its enhanced visible light photocatalytic performance: Influence of calcination temperature. <b>2020</b> , 31, 2705-2711		19
290	Bi <sub>2</sub> O <sub>3</sub> / g-C <sub>3</sub> N <sub>4</sub> nanocomposites as proficient photocatalysts for hydrogen generation from aqueous glycerol solutions beneath visible light. <b>2020</b> , 46, 24873-24881		10
289	Novel torus shaped g-C <sub>3</sub> N <sub>4</sub> photocatalysts. <b>2020</b> , 268, 118733		31
288	Metal-free photocatalysts for hydrogen evolution. <b>2020</b> , 49, 1887-1931		190
287	Ultra-thin deaminated tri-s-triazine-based crystalline nanosheets with high photocatalytic hydrogen evolution performance. <b>2020</b> , 827, 154307		10
286	A sensitive method to monitor catechol by using graphitic carbon nitride quantum dots as coreactants in Ru(bpy) <sub>3</sub> <sup>2+</sup> -based electrochemiluminescent system. <b>2020</b> , 860, 113910		10

285	ZnO-Modified g-CN: A Potential Photocatalyst for Environmental Application. <b>2020</b> , 5, 3828-3838	60
284	A Novel Approach to Synthesize Nitrogen-Deficient g-C <sub>3</sub> N <sub>4</sub> for the Enhanced Photocatalytic Contaminant Degradation and Electrocatalytic Hydrogen Evolution. <b>2020</b> , 15, 2050006	6
283	Integrating nitrogen vacancies into crystalline graphitic carbon nitride for enhanced photocatalytic hydrogen production. <b>2020</b> , 56, 3179-3182	15
282	Detection of Silver Nanoparticles Using Green Synthesis of Fluorescent Nitrogen-Doped Carbon Dots. <b>2020</b> , 44, 379-387	3
281	Influence of nitrogen vacancies on selective oxidation of aromatic alcohols on g-C <sub>3</sub> N <sub>4</sub> : A comparative DFT study. <b>2020</b> , 482, 110747	3
280	Cobalt-Exchanged Poly(Heptazine Imides) as Transition Metal-N Electrocatalysts for the Oxygen Evolution Reaction. <b>2020</b> , 32, e1903942	30
279	Large-scale synthesis of crystalline g-CN nanosheets and high-temperature H sieving from assembled films. <b>2020</b> , 6, eay9851	59
278	Electronic Structure Engineering of Carbon Nitride Materials by Using Polycyclic Aromatic Hydrocarbons. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 6622-6628	4.8 11
277	Recovery Behavior of the Luminescence Peak from Graphitic Carbon Nitride as a Function of the Synthesis Temperature. <b>2020</b> , 55, 1900163	8
276	Mainstream avenues for boosting graphitic carbon nitride efficiency: towards enhanced solar light-driven photocatalytic hydrogen production and environmental remediation. <b>2020</b> , 8, 10571-10603	38
275	Properties and mechanism of hexavalent chromium removal by FeS@ graphite carbon nitride nanocomposites. <b>2020</b> , 597, 124751	17
274	Exploring recent advances in silver halides and graphitic carbon nitride-based photocatalyst for energy and environmental applications. <b>2020</b> , 13, 8271-8300	17
273	Visible light photocatalytic degradation of tetracycline with porous Ag/graphite carbon nitride plasmonic composite: Degradation pathways and mechanism. <b>2020</b> , 574, 110-121	57
272	Spatial Separation of Charge Carriers via Heterogeneous Structural Defects in Graphitic Carbon Nitride for Photocatalytic Hydrogen Evolution. <b>2020</b> , 3, 4428-4436	14
271	Defects Engineering Leads to Enhanced Photocatalytic H Evolution on Graphitic Carbon Nitride-Covalent Organic Framework Nanosheet Composite. <b>2020</b> , 16, e2001100	41
270	Conventional and Current Methods of Toxic Metals Removal from Water Using g-C <sub>3</sub> N <sub>4</sub> -Based Materials. <b>2021</b> , 31, 1419-1442	7
269	Graphitic Carbon Nitride for Enhancing Humidity Sensing of Microfibers. <b>2021</b> , 39, 3896-3902	3
268	Construction of few-layered black phosphorus/graphite-like carbon nitride binary hybrid nanostructure for reducing the fire hazards of epoxy resin. <b>2021</b> , 586, 692-707	16

267	Green sonochemical synthesis and fabrication of cubic MnFeO electrocatalyst decorated carbon nitride nano hybrid for neurotransmitter detection in serum samples. <b>2021</b> , 70, 105305	2
266	Increasing Electron availability in benzene ring incorporated graphitic carbon nitride for increased photocatalytic hydrogen generation. <b>2021</b> , 65, 164-170	8
265	Sunlight-induced uranium extraction with triazine-based carbon nitride as both photocatalyst and adsorbent. <b>2021</b> , 282, 119523	34
264	Atomically dispersed and nanoscaled Co species embedded in micro-/mesoporous carbon nanosheet/nanotube architecture with enhanced oxygen reduction and evolution bifunction for Zn-Air batteries. <b>2021</b> , 404, 127112	14
263	One-pot synthesis of novel ternary Fe <sub>3</sub> N/Fe <sub>2</sub> O <sub>3</sub> /C <sub>3</sub> N <sub>4</sub> photocatalyst for efficient removal of rhodamine B and CO <sub>2</sub> reduction. <b>2021</b> , 852, 156955	37
262	Platinum and zinc oxide modified carbon nitride electrode as non-enzymatic highly selective and reusable electrochemical diabetic sensor in human blood. <b>2021</b> , 137, 107645	15
261	Localized surface plasmonic resonance role of silver nanoparticles in the enhancement of long-chain hydrocarbons of the CO <sub>2</sub> reduction over Ag-gC <sub>3</sub> N <sub>4</sub> /ZnO nanorods photocatalysts. <b>2021</b> , 229, 116049	15
260	BoxBehnken design and experimental study of ciprofloxacin degradation over Ag <sub>2</sub> O/CeO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposites. <b>2021</b> , 18, 2303-2324	2
259	Mixing concentrated sulfuric acid and diethylenetriamine at room temperature: A rapid and facile approach to synthesize fluorescent carbon polymer hollow spheres as peroxidase mimics. <b>2021</b> , 582, 405-411	1
258	Self-assembly approach toward polymeric carbon nitrides with regulated heptazine structure and surface groups for improving the photocatalytic performance. <b>2021</b> , 409, 127370	8
257	The exploration of metal-free catalyst g-CN for NO degradation. <b>2021</b> , 404, 124153	7
256	Graphitic carbon nitride-supported cobalt oxides as a potential catalyst for decomposition of N <sub>2</sub> O. <b>2021</b> , 538, 148157	7
255	Highly selective and rapid non-enzymatic glucose sensing at ultrathin layered Nb doped C <sub>3</sub> N <sub>4</sub> for extended linearity range. <b>2021</b> , 160, 105774	2
254	A simple approach for controlling the morphology of g-C <sub>3</sub> N <sub>4</sub> nanosheets with enhanced photocatalytic properties. <b>2021</b> , 111, 108214	17
253	Organic wastewater treatment by a single-atom catalyst and electrolytically produced HO. <b>2021</b> , 4, 233-241	105
252	Co and Ni assisted CdS@g-C <sub>3</sub> N <sub>4</sub> nano hybrid: A photocatalytic system for efficient hydrogen evolution reaction. <b>2021</b> , 259, 124140	6
251	Microwave-assisted fabrication of g-CN nanosheets sustained BiS heterojunction composites for the catalytic reduction of 4-nitrophenol. <b>2021</b> , 42, 826-841	7
250	Thermomechanical and anticorrosion characteristics of metal-organic frameworks. <b>2021</b> , 295-330	4

249	Palladium nanoparticles supported on exfoliated g-C <sub>3</sub> N <sub>4</sub> as efficient catalysts for selective oxidation of benzyl alcohol by molecular oxygen. <b>2021</b> , 45, 13519-13528	3
248	Creation of carbon defects and in-plane holes with the assistance of NH <sub>4</sub> Br to enhance the photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> .	5
247	DFT calculations for single-atom confinement effects of noble metals on monolayer g-CN for photocatalytic applications.. <b>2021</b> , 11, 4276-4285	14
246	Z-Scheme versus type-II junction in g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> and g-C <sub>3</sub> N <sub>4</sub> /SrTiO <sub>3</sub> /TiO <sub>2</sub> heterostructures. <b>2021</b> , 11, 3589-3598	5
245	Molecular Mechanism for the Self-Supported Synthesis of Graphitic Carbon Nitride from Urea Pyrolysis. <b>2021</b> , 12, 1396-1406	4
244	Ultratough and ultrastrong graphene oxide hybrid films via a polycationitrile approach. <b>2021</b> , 6, 341-347	3
243	CHAPTER 9:Combination of Carbon Nitride and Semiconductors for the Enhancement of the Photocatalytic Degradation of Organic Pollutants and Hydrogen Production. <b>2021</b> , 318-370	
242	Photochemistry of carbon nitrides and heptazine derivatives. <b>2021</b> , 57, 9330-9353	4
241	Understanding spontaneous dissolution of crystalline layered carbon nitride for tuneable photoluminescent solutions and glasses. <b>2021</b> , 9, 2175-2183	5
240	Graphitic carbon nitride-based metal-free photocatalyst. <b>2021</b> , 449-484	0
239	A comparative study on modified graphitic carbon nitride: Synthesis, characterization, and applications. <b>2021</b> , 629-670	0
238	Carbon nitride derivatives as photocatalysts for the CO reduction reaction: computational study. <b>2021</b> , 23, 3401-3406	1
237	Uracil-Doped Graphitic Carbon Nitride for Enhanced Photocatalytic Performance. <b>2021</b> , 13, 12118-12130	5
236	A novel phosphorus-nitrogen flame retardant for improving the flame retardancy of polyamide 6: Preparation, properties, and flame retardancy mechanism. <b>2021</b> , 32, 2508-2516	5
235	Long-Lived Triplet Excited State in a Heterogeneous Modified Carbon Nitride Photocatalyst. <b>2021</b> , 143, 4646-4652	12
234	Preparation and application of defective graphite phase carbon nitride photocatalysts. <b>2021</b> ,	
233	Platinum nanocomposites with mesoporous carbon nitride: synthesis and evaluation of the hydrogenation activity. <b>2021</b> , 70, 677-684	2
232	A Z-scheme iron-based hollow microsphere with enhanced photocatalytic performance for tetracycline degradation. <b>2021</b> , 36, 1600-1613	0



231	Effects of sonochemical approach and induced contraction of core-shell bismuth sulfide/graphitic carbon nitride as an efficient electrode materials for electrocatalytic detection of antibiotic drug in foodstuffs. <b>2021</b> , 72, 105445	13
230	Heterogeneous Fenton-like surface properties of oxygenated graphitic carbon nitride. <b>2021</b> , 587, 479-488	6
229	Molecular TriazineHeptazine Junctions Promoting Exciton Dissociation for Overall Water Splitting with Visible Light. <b>2021</b> , 125, 9818-9826	21
228	An Overview of the Recent Progress in Polymeric Carbon Nitride Based Photocatalysis. <b>2021</b> , 21, 1811-1844	15
227	Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. <b>2021</b> , 37, 101059	24
226	EFFECT OF STRUCTURE AND SURFACE STATE OF NITROGEN DOPED CARBON NANOTUBES ON THEIR FUNCTIONAL AND CATALYTIC PROPERTIES. <b>2021</b> , 62, 771-781	2
225	DFT and experimental study of elemental mercury (Hg <sup>0</sup> ) removal by 2D-g-C <sub>3</sub> N <sub>4</sub> . <b>2021</b> , 6, 100095	5
224	Wafer-scale growth of two-dimensional graphitic carbon nitride films. <b>2021</b> , 4, 1625-1638	27
223	Energy harvesting from g-C <sub>3</sub> N <sub>4</sub> piezoelectric nanogenerators. <b>2021</b> , 83, 105743	16
222	Injectable hydrogels based on oxidized alginate-gelatin reinforced by carbon nitride quantum dots for tissue engineering. <b>2021</b> , 602, 120660	9
221	Mechanistic analysis of multiple processes controlling solar-driven HO <sub>2</sub> synthesis using engineered polymeric carbon nitride. <b>2021</b> , 12, 3701	35
220	Constructing BiOBr/g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> Z-scheme photocatalyst with enhanced photocatalytic activity. <b>2021</b> , 32, 20539-20547	3
219	A Tour-Guide through Carbon Nitride-Land: Structure- and Dimensionality-Dependent Properties for Photo(Electro)Chemical Energy Conversion and Storage. 2101078	17
218	Crystalline carbon nitride anchored on MXene as an ordered Schottky heterojunction photocatalyst for enhanced visible-light hydrogen evolution. <b>2021</b> , 179, 387-399	26
217	Photoredox-Catalyzed Simultaneous Olefin Hydrogenation and Alcohol Oxidation over Crystalline Porous Polymeric Carbon Nitride. <b>2021</b> , 14, 3344-3350	4
216	Synergistic Effect of K and I Codoped Porous Graphitic Carbon Nitride Sphere for Photocatalytic Hydrogen Evolution: Experimental and Theoretical Study. <b>2021</b> , 5, 2100292	2
215	Facile Fabrication of Novel SrMoO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> Hybrid Composite for High-Performance Photocatalytic Degradation of Dye Pollutant under Sunlight. <b>2021</b> , 6, 7711-7721	1
214	Fluorescent carbon-dots enhance light harvesting and photosynthesis by overexpressing PsbP and PsiK genes. <b>2021</b> , 19, 260	4

213	Carbon nitride materials: impact of synthetic method on photocatalysis and immobilization for photocatalytic pollutant degradation. <b>2021</b> , 56, 18608	2
212	Synthesis of crystalline carbon nitride with enhanced photocatalytic NO removal performance: An experimental and DFT theoretical study. <b>2021</b> , 83, 113-122	6
211	Photocatalytic selective oxidation of HMF to DFF over Bi <sub>2</sub> WO <sub>6</sub> /mpg-C <sub>3</sub> N <sub>4</sub> composite under visible light. <b>2021</b> , 35, e6404	3
210	Accelerating interlayer charge transport of alkali metal-intercalated carbon nitride for enhanced photocatalytic hydrogen evolution. 1	2
209	Fabrication of highly sensitive anticancer drug sensor based on heterostructured ZnO-Co <sub>3</sub> O <sub>4</sub> capped on carbon nitride nanomaterials. <b>2021</b> , 167, 106244	9
208	Novel Nonradical Oxidation of Sulfonamide Antibiotics with Co(II)-Doped g-CN-Activated Peracetic Acid: Role of High-Valent Cobalt-Oxo Species. <b>2021</b> , 55, 12640-12651	13
207	On-Surface Polymerization of In-Plane Highly Ordered Carbon Nitride Nanosheets toward Photocatalytic Mineralization of Mercaptan Gas. <b>2021</b> , 33, e2101466	25
206	Electrochemical Determination of Diclofenac by Using ZIF-67/g-C <sub>3</sub> N <sub>4</sub> Modified Electrode. <b>2021</b> , 2021, 1-14	0
205	An ultra-sensitive room temperature toluene sensor based on molten-salts modified carbon nitride. <b>2021</b> ,	0
204	Direct Atomic-Scale Structure and Electric Field Imaging of Triazine-Based Crystalline Carbon Nitride. <b>2021</b> , 33, e2106359	3
203	Synthesis of hexagonal rosettes of g-CN with boosted charge transfer for the enhanced visible-light photocatalytic hydrogen evolution and hydrogen peroxide production. <b>2021</b> , 597, 345-360	11
202	Introduction of crystalline hexagonal-C <sub>3</sub> N <sub>4</sub> into g-C <sub>3</sub> N <sub>4</sub> with enhanced charge separation efficiency. <b>2021</b> , 559, 149876	2
201	Graphitic carbon nitride heterojunction photocatalysts for solar hydrogen production. <b>2021</b> ,	5
200	Carbon self-doped polytriazine imide nanotubes with optimized electronic structure for enhanced photocatalytic activity. <b>2021</b> , 22, 751-759	0
199	Performance improvement of $\beta$ borophene in nitrogen fixation using single-atom anchoring: A first-principles study. <b>2021</b> , 560, 149667	3
198	Preparation of g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> by template method and its photocatalytic performance. <b>2021</b> , 624, 126756	9
197	Investigation of kinetic parameters for ammonium perchlorate thermal decomposition in presence of gCN/CuO by TG-MS analysis and kinetic compensation correction. <b>2021</b> , 301, 122301	4
196	Roles of oxygen-containing functional groups of O-doped g-C <sub>3</sub> N <sub>4</sub> in catalytic ozonation: Quantitative relationship and first-principles investigation. <b>2021</b> , 292, 120155	38

195	Ultrasensitive prostate specific antigen monitoring based on electrochemiluminescent immunesystem with synergistic signal amplification effect of resonance energy transfer coupling with K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> -H <sub>2</sub> O <sub>2</sub> dual coreactants. <b>2021</b> , 899, 115697	1
194	Ascorbic acid-assisted hydrothermal route to create mesopores in polymeric carbon nitride for increased photocatalytic hydrogen generation. <b>2021</b> ,	3
193	Synthesis of 3,5-diaminobenzoic acid containing crosslinked porous polyamine resin as a new adsorbent for efficient removal of cationic and anionic dyes from aqueous solutions. <b>2021</b> , 43, 102304	6
192	Eutectic iodide-based salt as a melem-to-PTI conversion stopping agent for all-in-one graphitic carbon nitride. <b>2021</b> , 294, 120222	3
191	Directional modulation of triazine and heptazine based carbon nitride for efficient photocatalytic H <sub>2</sub> evolution. <b>2021</b> , 562, 150103	2
190	Single molecular precursors for C <sub>x</sub> N <sub>y</sub> materials- Blending of carbon and nitrogen beyond g-C <sub>3</sub> N <sub>4</sub> . <b>2021</b> , 183, 332-354	7
189	Graphitic carbon nitride composites as electro catalysts: Applications in energy conversion/storage and sensing system. <b>2021</b> , 320, 128693	1
188	Sustainable one-step synthesis of nanostructured potassium poly(heptazine imide) for highly boosted photocatalytic hydrogen evolution. <b>2021</b> , 424, 130332	6
187	Recent advances in crystalline carbon nitride for photocatalysis. <b>2021</b> , 91, 224-240	15
186	Macroscopic graphitic carbon nitride monolith for efficient hydrogen production by photocatalytic reforming of glucose under sunlight. <b>2021</b> , 283, 131174	2
185	Insight into metallic oxide semiconductor (SnO <sub>2</sub> , ZnO, CuO, Fe <sub>2</sub> O <sub>3</sub> , WO <sub>3</sub> )-carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) heterojunction for gas sensing application. <b>2021</b> , 332, 113128	3
184	Sodium doped flaky carbon nitride with nitrogen defects for enhanced photoreduction carbon dioxide activity. <b>2021</b> , 603, 210-219	4
183	Exploration of photocatalytic seawater splitting on Pt/GaP-C <sub>3</sub> N <sub>4</sub> under simulated sunlight. <b>2022</b> , 572, 151346	2
182	Band alignment of homojunction by anchoring CN quantum dots on g-C <sub>3</sub> N <sub>4</sub> (0D/2D) enhance photocatalytic hydrogen peroxide evolution. <b>2022</b> , 300, 120736	11
181	Z-scheme junction Bi <sub>2</sub> O <sub>2</sub> (NO <sub>3</sub> )(OH)/g-C <sub>3</sub> N <sub>4</sub> for promoting CO <sub>2</sub> photoreduction. <b>2022</b> , 429, 132268	4
180	Copolymerization of urea and murexide for efficient photocatalytic hydrogen evolution and tetracycline degradation. <b>2021</b> , 45, 1977-1983	0
179	Development of metal-free layered semiconductors for 2D organic field-effect transistors. <b>2021</b> , 50, 11559-11576	6
178	2D g-C <sub>3</sub> N <sub>4</sub> as a bifunctional photocatalyst for co-catalyst and sacrificial agent-free photocatalytic N <sub>2</sub> fixation and dye photodegradation. <b>2021</b> , 45, 7174-7184	5

177	Colorimetric detection of hypoxanthine in aquatic products based on the enzyme mimic of cobalt-doped carbon nitride.	4
176	Crucial roles of triazinic-NO and CO groups in photocatalytic water splitting on graphitic carbon nitride. <b>2021</b> , 9, 5522-5532	4
175	Current Perspective on Synthesis, Properties, and Application of Graphitic Carbon Nitride Related-Compounds. <b>2020</b> , 413-432	1
174	Molten salt synthesis of tetragonal carbon nitride hollow tubes and their application for removal of pollutants from wastewater. <b>2018</b> , 225, 307-313	97
173	Metal-free catalytic conversion of CO <sub>2</sub> into cyclic carbonate by hydroxyl-functionalized graphitic carbon nitride materials. <b>2020</b> , 491, 110979	6
172	Metal Doped-C <sub>3</sub> N <sub>4</sub> /Fe <sub>2</sub> O <sub>4</sub> : Efficient and Versatile Heterogenous Catalysts for Organic Transformations. <b>2019</b> , 23, 1284-1306	2
171	Multifunctional rare earth molecular ferroelectrics with a piezoelectric response: ((nBu) <sub>4</sub> N) <sub>3</sub> [Ce(NO <sub>3</sub> ) <sub>4</sub> (SCN) <sub>2</sub> ](CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> ) <sub>4</sub> N = tetrabutylammonium).	3
170	Highly active photocatalytic asphalt pavement for NO <sub>x</sub> removal using iron-doped g-C <sub>3</sub> N <sub>4</sub> . 1-16	0
169	Tailoring the Pore Size, Basicity, and Binding Energy of Mesoporous C N for CO Capture and Conversion. <b>2021</b> , 16, 3999-4005	2
168	Simultaneous realization of holey in-plane defects and expanded interlayers in N-containing nanocarbons from a non-covalent-bonded organic framework for efficient oxygen reduction reaction. <b>2021</b> , 400, 139475	1
167	Optimized synthesis of solution-processable crystalline poly(triazine imide) with minimized defects for OLED application.	
166	Gradient Zn-Doped Poly Heptazine Imides Integrated with a van der Waals Homojunction Boosting Visible Light-Driven Water Oxidation Activities. 13463-13471	10
165	Optimized synthesis of solution-processable crystalline poly(triazine imide) with minimized defects for OLED application. <b>2021</b> , 61, e202111749	4
164	Study of photoluminescence quenching behavior of polystyrene thin film by nano graphitic carbon nitride. <b>2021</b> , 248, 168204	0
163	Research Progress on Improving the Photocatalysis of Graphite-C <sub>3</sub> N <sub>4</sub> via O, S and P Doping. <b>2017</b> , 06, 84-96	2
162	Modeling of Non-Covalent Interactions of Vat Dyes with Carbon Nitride Fragments. <b>2018</b> , 10, 37-42	
161	Synthesis of Poly(3,4-Ethelenedioxythio-Phene)/Graphitic Carbon Nitride Electrochemical Sensor for Heavy Metal Ion Determination. <b>2019</b> , 09, 580-588	
160	Materials From Extreme High Pressure Conditions. <b>2019</b> ,	0

159	Orientation and crystal structure of two-dimensional carbon nitride films. <b>2020</b> , 59, 080907	
158	One-Dimensional Conjugated Carbon Nitrides: Synthesis and Structure Determination by HRTEM and Solid-State NMR. <b>2021</b> , 12, 10359-10365	2
157	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
156	Multifunctional Cl-S double-doped carbon nitride nanotube unit in catalytic ozone oxidation synergistic photocatalytic system: Generation of ROS-rich region and effective treatment of organic wastewater. <b>2022</b> , 430, 132843	4
155	H <sub>2</sub> and CH <sub>4</sub> production from bio-alcohols using condensed poly(heptazine imide) with visible light.	2
154	A novel electrochemical sensor for the detection of fipronil and its toxic metabolite fipronil sulfone using TiO <sub>2</sub> -polytriazine imide submicrostructured composite as an efficient electrocatalyst. <b>2022</b> , 238, 123025	0
153	Solvent-Assisted Synthesis of Supramolecular-Assembled Graphitic Carbon Nitride for Visible Light Induced Hydrogen Evolution [A Review].	1
152	Fully Condensed Poly (Triazine Imide) Crystals: Extended $\pi$ Conjugation and Structural Defects for Overall Water Splitting.	2
151	Creating triazine units to bridge carbon nitride with titania for enhanced hydrogen evolution performance. <b>2021</b> , 608, 2768-2768	0
150	Fully Condensed Poly (Triazine Imide) Crystals: Extended $\pi$ Conjugation and Structural Defects for Overall Water Splitting. <b>2021</b> ,	11
149	Carbon Nitride/Metal Oxide Hybrids for Visible Light Harvesting and Water Remediation. <b>2021</b> , 53-79	2
148	Efficient photocatalytic H <sub>2</sub> -evolution coupled with valuable furfural-production on exquisite 2D/2D LaVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> heterostructure. <b>2022</b> , 92, 106714	8
147	Synergistic effect of KCl mixing and melamine/urea mixture in the synthesis of g-C <sub>3</sub> N <sub>4</sub> for photocatalytic removal of tetracycline. <b>2021</b> , 107, 118-118	2
146	Boosting photocatalytic hydrogen production by creating isotype heterojunctions and single-atom active sites in highly-crystallized carbon nitride. <b>2021</b> ,	1
145	Polytriazine imide-LiCl semiconductor for highly efficient photooxidation of benzyl alcohol to benzaldehyde. <b>2021</b> , 133, 1	
144	Synthesis of Large Area Graphitic Carbon Nitride Nanosheet by Chemical Vapor Deposition.	
143	KNO <sub>3</sub> -Assisted incorporation of K dopants and N defects into g-C <sub>3</sub> N <sub>4</sub> with enhanced visible light driven photocatalytic H <sub>2</sub> O <sub>2</sub> production. <b>2021</b> , 45, 22591-22601	1
142	Nanostructural synergism as MnNC channels in manganese (IV) oxide and fluffy g-CN layered composite with exceptional catalytic capabilities.. <b>2021</b> , 610, 258-270	

- 141 Synthesis of large area graphitic carbon nitride nanosheet by chemical vapor deposition. **2022**, 900, 163310 0
- 140 A brief review of s-triazine graphitic carbon nitride. 1 2
- 139 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. **2022**, 105, 9
- 138 Multi-omics analyses revealed key factors involved in fluorescent carbon-dots-regulated secondary metabolism in *Tetrastigma hemsleyanum*.. **2022**, 20, 63 0
- 137 Plasmonic Ag nanoparticles decorated g-C<sub>3</sub>N<sub>4</sub> for enhanced visible-light driven photocatalytic degradation and H<sub>2</sub> production. **2022**, 1, 1-7 1
- 136 Phase engineering in graphitic carbon nitride with imidazolium sulfonic acid chloride ionic liquid functionalization for photocatalytic side-chain oxidation of toluene. **2022**, 633, 118515 0
- 135 Highly efficient photocatalytic degradation for antibiotics and mechanism insight for Bi<sub>2</sub>S<sub>3</sub>/g-C<sub>3</sub>N<sub>4</sub> with fast interfacial charges transfer and excellent stability. **2022**, 15, 103689 3
- 134 Atmospheric CO<sub>2</sub> mediated formation of Ag<sub>2</sub>O-Ag<sub>2</sub>CO<sub>3</sub>/g-C<sub>3</sub>N<sub>4</sub> (p-n/n-n dual heterojunctions) with enhanced photoreduction of hexavalent chromium and nitrophenols. **2022**, 427, 113800 2
- 133 Graphitic carbon nitride-based nanoplatfoms for biosensors: design strategies and applications. **2022**, 24, 100770 2
- 132 Nitrogen-defect induced trap states steering electron-hole migration in graphite carbon nitride. **2022**, 306, 121142 9
- 131 The tremendous boost for photocatalytic properties of g-C<sub>3</sub>N<sub>4</sub>: regulation from polymerization kinetics to crystal structure engineering.
- 130 KCl/LiCl molten salt synthesis of LaOCl/CeO<sub>2</sub>-g-C<sub>3</sub>N<sub>4</sub> with excellent photocatalytic-adsorbed removal performance for organic dye pollutant. **2022**, 2 2
- 129 Recent Advancement of the Current Aspects of g-C N for its Photocatalytic Applications in Sustainable Energy System.. **2022**, e202100310 3
- 128 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
- 127 Synthesis of an iso-type graphitic carbon nitride heterojunction derived from oxamide and urea in molten salt for high-performance visible-light driven photocatalysis. 0
- 126 New functionalisation reactions of graphitic carbon nitrides: Computational and experimental studies. **2022**, 46, 174751982110738
- 125 The solvent-free and aerobic oxidation of benzyl alcohol catalyzed by Pd supported on carbon nitride/CeO<sub>2</sub> composites. 1
- 124 Rational Design of graphitic Carbon Nitride Catalytic-Biocatalytic As a Photocatalytic Platform for Solar Fine Chemical Production From CO<sub>2</sub>. 2

123	Allochromic Platinum/Carbon Nitride with Photoactivated Ohmic Contact for Efficient Visible-Light Photocatalytic Hydrogen Evolution.	
122	Chemical Vapor Deposition of 2D Crystallized g-C <sub>3</sub> N <sub>4</sub> Layered Films. <b>2022</b> , 126, 4710-4714	0
121	Crystalline C <sub>3</sub> N <sub>4</sub> /CeO <sub>2</sub> composites as photocatalyst for hydrogen production in visible light. <b>2022</b> , 997, 012018	
120	Photocatalytic Water-Splitting by Organic Conjugated Polymers: Opportunities and Challenges.. <b>2022</b> , e202100336	1
119	Metal-free Knoevenagel condensation catalyzed by mesoporous and nitrogen-distribution-tunable supported carbon nitride. 1	1
118	State of the art advancement in rational design of g-C <sub>3</sub> N <sub>4</sub> photocatalyst for efficient solar fuel transformation, environmental decontamination and future perspectives. <b>2022</b> , 47, 10837-10867	4
117	K <sup>+</sup> Co-doped crystalline carbon nitride with outstanding visible light photocatalytic activity for H <sub>2</sub> evolution. <b>2022</b> , 47, 12569-12581	0
116	One-step fabrication of crystalline carbon nitride with tunable in-plane/interlayer crystallinity for enhanced photocatalytic hydrogen evolution. <b>2022</b> , 164828	1
115	Enhancement of photoluminescence intensity of epoxy thin-film resin by nano graphitic carbon nitride. <b>2022</b> , 632, 413718	0
114	The amalgamation of g-C <sub>3</sub> N <sub>4</sub> and VO <sub>2</sub> (D) as a facile electrode for enhanced storage of energy. <b>2022</b> , 286, 117046	1
113	Degradation of mixed cationic dye pollutant by metal free melem derivatives and graphitic carbon nitride.. <b>2022</b> , 134249	1
112	Local Spatial Polarization Induced Efficient Charge Separation of Squaraine-Linked COF for Enhanced Photocatalytic Performance. <b>2022</b> , 32, 2104519	6
111	Titania-Carbon Nitride Interfaces in Gold-Catalyzed CO Oxidation.. <b>2021</b> ,	0
110	Size Effects of the Anions in the Ionothermal Synthesis of Carbon Nitride Materials.. <i>Chemistry - A European Journal</i> , <b>2022</b> ,	4.8 0
109	Photocatalytic hydrogen evolution based on carbon nitride and organic semiconductors.. <b>2022</b> ,	0
108	In Situ Construction of Li <sup>3n</sup> -Enriched Interface Enabling Ultra-Stable Solid-State Lini <sub>0.8</sub> co <sub>0.1</sub> mn <sub>0.1</sub> o <sub>2</sub> /Lithium Metal Batteries.	
107	Sustained delivery of gambogic acid from mesoporous rod-structure hydroxyapatite for efficient in vitro cancer therapy. <b>2022</b> , 212821	1
106	Synthesis of palladium-chelated poly(triazine imide) heterogeneous nanocatalysts for reduction of p-nitrophenol to p-aminophenol.	

105	Promoting intramolecular charge transfer of graphitic carbon nitride by donor-acceptor modulation for visible-light photocatalytic H <sub>2</sub> evolution. <b>2022</b> , 1, 294-308	5
104	Integrating coral-like morphology into cyano-containing carbon nitride towards efficient photocatalytic H <sub>2</sub> evolution and Cr(VI) reduction. <b>2022</b> ,	0
103	Crystalline Intramolecular Ternary Carbon Nitride Homojunction for Photocatalytic Hydrogen Evolution. 6345-6358	7
102	In situ Growth of Graphitic Carbon Nitride on Multiwalled Carbon Nanotubes for Interfacial Thermal Management. <b>2022</b> , 129232	0
101	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
100	Facile fabrication of a metal-free 2D-2D Nb <sub>2</sub> CTx@g-C <sub>3</sub> N <sub>4</sub> MXene-based Schottky-heterojunction with the potential application in photocatalytic processes. <b>2022</b> , 165459	1
99	Geoinspired syntheses of materials and nanomaterials.	0
98	Synthesis of Z-scheme g-C <sub>3</sub> N <sub>4</sub> /Gd-doped Bi <sub>2</sub> WO <sub>6</sub> heterojunction with enhanced visible-light photodegradation of organic dyes.	
97	Nanocomposite ZnO/g-C <sub>3</sub> N <sub>4</sub> for Improved Degradation of Dyes under Visible Light: Facile Preparation, Characterization, and Performance Investigations. <b>2022</b> , 17, 403-419	3
96	Porous and Few-Layer Carbon Nitride Nanosheets via Surface Steam Etching for Enhanced Photodegradation Activity.	2
95	Magnetic Nanoparticles Supported on g-C <sub>3</sub> N <sub>4</sub> : An Efficient Heterogeneous Catalyst for Selective Transfer Hydrogenation of Furfural to Furfuryl alcohol. <b>2022</b> , 7,	
94	Fabrication of Enzyme-Free and Rapid Electrochemical Detection of Glucose Sensor Based on ZnO Rod and Ru Doped Carbon Nitride Modified Gold Transducer. <b>2022</b> , 12, 1778	1
93	Enhanced photocatalytic degradation of tetracycline over magnetic La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> p-n heterojunction arising from the synergistic effects of oxygen vacancy defects and high-potential photogenerated electrons. <b>2022</b> , 165699	1
92	Electrostatic self-assembly combined with microwave hydrothermal strategy: construction of 1D/1D carbon nanofibers/crystalline g-C <sub>3</sub> N <sub>4</sub> heterojunction for boosting photocatalytic hydrogen production. <b>2022</b> , 99, 107432	1
91	Enhanced photocatalytic overall water splitting from an assembly of donor-acceptor conjugated polymeric carbon nitride. <b>2022</b> , 624, 411-422	1
90	Influence of the Precursors Selection on the Porous Structure and Adsorption Properties of C/g-C <sub>3</sub> N <sub>4</sub> Composites. <b>2022</b> , 7,	
89	In situ construction of Li <sub>3</sub> N-enriched interface enabling ultra-stable solid-state LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> /lithium metal batteries. <b>2022</b> , 100, 107470	3
88	Green and efficient synthesis of carbon quantum dots from cordia myxa L. and their application in photocatalytic degradation of organic dyes. <b>2022</b> , 1266, 133456	1



- 87 Carbon nitride photocatalysts for water treatment and purification. **2022**, 137-174
- 86 Piezoelectric Induced Reversal Photocatalytic Performances for Carbon Nitride with Different Structures. 0
- 85 Solar energy harvesting with carbon nitrides. **2022**, 81-107
- 84 Prolific intercalation of VO<sub>2</sub> (D)/polypyrrole/g-C<sub>3</sub>N<sub>4</sub> as an energy storing electrode with remarkable capacitance. 0
- 83 ZrO<sub>2</sub> Supported on Graphitic Carbon Nitride Based on Metal-Nitrogen Interaction for Enhanced Catalytic Cycloaddition of CO<sub>2</sub> to Cyclic Carbonates. 1
- 82 Donor-acceptor anchoring nanoarchitectonics in polymeric carbon nitride for rapid charge transfer and enhanced visible-light photocatalytic hydrogen evolution reaction. **2022**, 197, 378-388
- 81 Novel visible light driven crystalline carbon nitride-tungsten oxide composites for photodegradation of phenol. **2022**, 128, 109246 0
- 80 Constructing Ni<sub>4</sub>/Fe@Fe<sub>3</sub>O<sub>4</sub>-g-C<sub>3</sub>N<sub>4</sub> nanocomposites for highly efficient degradation of carbon tetrachloride from aqueous solution. **2022**, 136169
- 79 Smart apparel using nano graphitic carbon nitride/PVA in a cotton cloth for military application. **2022**, e10345 1
- 78 Ultrafast Electron Transfer from Crystalline g-C<sub>3</sub>N<sub>4</sub> to Pt Revealed by Femtosecond Transient Absorption Spectroscopy. 2
- 77 Carbon Nitride Photoredox Catalysis Enables the Generation of the Dioxolanyl Radical for Conjugate Addition Reactions. 10787-10792 1
- 76 Unblocking Ion-occluded Pore Channels in Poly(triazine imide) Framework for Proton Conduction.
- 75 Regulating polymerization degree of heptazines in carbon nitride with fumaric acid to enhance photocatalytic activity. **2022**, 136210
- 74 Unblocking Ion-occluded Pore Channels in Poly(triazine imide) Framework for Proton Conduction. 0
- 73 Perspectives on Advances in the Catalytic Desulfurization and Denitrogenation of Transportation Fuel Oils Using Graphitic Carbon Nitride and Boron Nitride. **2022**, 36, 8900-8924 2
- 72 Pyridazine doped g-C<sub>3</sub>N<sub>4</sub> with nitrogen defects and spongy structure for efficient tetracycline photodegradation and photocatalytic H<sub>2</sub> evolution. **2022**, 307, 136087 0
- 71 Construction of rGO-coupled C<sub>3</sub>N<sub>4</sub>/C<sub>3</sub>N<sub>5</sub> 2D/2D Z-scheme heterojunction to accelerate charge separation for efficient visible light H<sub>2</sub> evolution. **2022**, 318, 121822 3
- 70 MOF-derived tunable spin-state Mn<sup>III</sup> doped g-C<sub>3</sub>N<sub>4</sub> photocatalysts with enhanced photocatalytic activity. **2022**, 302, 122146 1

- 69 Recent advances of high-crystalline conjugated organic polymeric materials for photocatalytic CO<sub>2</sub> conversion. 1
- 68 Particulate photocatalysts for overall water splitting and implications regarding panel reactors for large-scale applications. **2022**, 221-250 0
- 67 A review on recent advances in selective and sensitive detection of heavy toxic metal ions in water using g-C<sub>3</sub>N<sub>4</sub>-based heterostructured composites. **2022**, 6, 2610-2650 0
- 66 ENi(OH)<sub>2</sub> supported over g-C<sub>3</sub>N<sub>4</sub>: A novel catalyst for para-nitrophenol reduction and supercapacitor electrode. **2022**, 4, 100498 0
- 65 Exploring the evolution patterns of melem from thermal synthesis of melamine to graphitic carbon nitride. **2022**, 12, 24311-24318 0
- 64 Ionothermally synthesized S-scheme isotype heterojunction of carbon nitride with significantly enhanced photocatalytic performance for hydrogen evolution and carbon dioxide reduction. **2023**, 201, 815-828 1
- 63 Mechanochemical bottom-up synthesis of phosphorus-linked, heptazine-based carbon nitrides using sodium phosphide. 18, 1203-1209 0
- 62 Embedding Thiophene-Amide into g-C<sub>3</sub>N<sub>4</sub> Skeleton with Induction and Delocalization Effects for High Photocatalytic H<sub>2</sub> Evolution. **2022**, 12, 1043 0
- 61 Improved Charge Separation in Poly(heptazine-triazine) Imides with Semi-coherent Interfaces for Photocatalytic Hydrogen Evolution. 0
- 60 Rapid thermal vapor condensation towards crystalline carbon nitride film with improved photoelectrochemical activity. **2022**, 55, 444001 0
- 59 Improved Charge Separation in Poly(heptazine-triazine) Imides with Semi-coherent Interfaces for Photocatalytic Hydrogen Evolution. 4
- 58 Catalytic mechanism and activity of N<sub>2</sub> reduction on boron-decorated crystalline carbon nitride. **2022**, 9, 045035 0
- 57 Applications of Bi<sub>2</sub>S<sub>3</sub>-based nanomaterials in photoelectric chemical sensors and biosensors. **2022**, 100440 0
- 56 Modification g-C<sub>3</sub>N<sub>4</sub> by MgO and its application for glycerol carbonate synthesis from glycerol and dimethyl carbonate. 0
- 55 Highly Dispersed Vanadia Anchored on Protonated g-C<sub>3</sub>N<sub>4</sub> as an Efficient and Selective Catalyst for the Hydroxylation of Benzene into Phenol. **2022**, 27, 6965 0
- 54 A facile pyrolysis synthesis of Ni doped Ce<sub>2</sub>O<sub>3</sub>@CeO<sub>2</sub>/CN composites for adsorption removal of Congo red: Activation of carbon nitride structure. **2022**, 122505 1
- 53 Rapid fabrication of MgO@g-C<sub>3</sub>N<sub>4</sub> heterojunctions for photocatalytic nitric oxide removal. 13, 1141-1154 0
- 52 Synthesis of Crystalline g-C<sub>3</sub>N<sub>4</sub> with Rock/Molten Salts for Efficient Photocatalysis and Piezocatalysis. **2022**, 0

51	Efficient synthesis of cyclic carbonate via transformation of CO <sub>2</sub> catalyzed by solid-base bifunctional graphitic carbon nitride materials.	0
50	Polymeric Carbon Nitride/Iron Oxide Composites: A Novel Class of Catalysts with Reduced Metal Content for Ammonium Perchlorate Thermal Decomposition. <b>2022</b> , 7, 38512-38524	0
49	Graphite-Like C <sub>3</sub> N <sub>4</sub> Nanocatalysts Containing Ru, Ni, Co, Fe, Au, Ag, Cu or Zn for Photocatalytic Degradation of Organic Dyes.	0
48	An overview of the current progress of graphitic carbon nitride and its multifunctional applications. <b>2022</b> , 10, 108745	0
47	Electropositive far-ultraviolet carbon nanoparticles-based photoluminescent photoinduced-electron transfer sensor for sodium dodecyl sulfate and sodium lauryl sulfonate detection. <b>2022</b> , 208, 110859	0
46	Trio obtainment through polypyrrole insertions in argentum/graphitic carbon nitride for accelerating super-capacitive energy parameters. <b>2022</b> , 56, 105879	0
45	Polymeric Carbon Nitride from Inorganic Precursor in Eutectic Salts: Enhanced Exciton Dissociation and Photocatalytic H <sub>2</sub> O <sub>2</sub> Production.	2
44	Development of Efficient and Recyclable ZnO/g-C <sub>3</sub> N <sub>4</sub> Nanocomposite for Enhanced Adsorption of Arsenic from Wastewater. <b>2022</b> , 12, 3984	1
43	Morphology-effects of four different dimensional graphitic carbon nitrides on photocatalytic performance of dye degradation, water oxidation and splitting. <b>2023</b> , 173, 111109	0
42	Partially cross-linked carbon nitride with unimpeded charge transfer between different chains for boosting photocatalytic hydrogen production.	0
41	One-step nitrogen defect engineering of polymeric carbon nitride for visible light-driven photocatalytic O <sub>2</sub> reduction to H <sub>2</sub> O <sub>2</sub> . <b>2023</b> , 634, 138-147	0
40	Understanding the intermediates and carbon dioxide adsorption of potassium chloride-incorporated graphitic carbon nitride with tailoring melamine and urea as precursors. <b>2023</b> , 633, 598-607	0
39	Role of Seawater Ions in Forming an Effective Interface between Photocatalyst/Cocatalyst.	0
38	Photocatalytic Degradation of Methylene Blue by ZnO/g-C <sub>3</sub> N <sub>4</sub> . <b>2023</b> , 13, 17-25	0
37	Recent Advances in g-C <sub>3</sub> N <sub>4</sub> -Based Photocatalysts for NO <sub>x</sub> Removal. <b>2023</b> , 13, 192	0
36	Growth of Robust Carbon Nitride Films by Double Crystallization with Exceptionally Boosted Electrochemiluminescence for Visual DNA Detection. 2202737	0
35	Controlled Synthesis of Nitro-Terminated Oligothiophene/Crystallinity-Improved g-C <sub>3</sub> N <sub>4</sub> Heterojunctions for Enhanced Visible-Light Catalytic H <sub>2</sub> Production.	1
34	Fabrication of visible-active ZnO-gC <sub>3</sub> N <sub>4</sub> nanocomposites for photodegradation and cytotoxicity of methyl orange and antibacterial activity towards drug resistance pathogens. <b>2023</b> , 136, 113392	2

- 33 Optical and quantitative detection of cobalt ion using graphitic carbon nitride-based chemosensor for hydrometallurgy of waste lithium-ion batteries. **2023**, 315, 137789 ○
- 32 Visible-light-driven photocatalytic hydrogen production on defective, sulfur self-doped g-C<sub>3</sub>N<sub>4</sub> nanofiber fabricate via electrospinning method. **2023**, 11, 109318 1
- 31 Conjugated Polymer Coupled with Graphitic Carbon Nitride for Boosting Photocatalytic Hydrogen Generation under Visible Light. ○
- 30 Cooperative Role of Nitrogen Defects and Cyano-group Functionalization in Carbon Nitride Towards Enhancing its CO<sub>2</sub> Photoreduction Activity. ○
- 29 Potassium and Sulfur Dual Sites on Highly Crystalline Carbon Nitride for Photocatalytic Biorefinery and CO<sub>2</sub> Reduction. **2023**, 13, 2106-2117 ○
- 28 Structure and Optical Properties of Polymeric Carbon Nitrides from Atomistic Simulations. **2023**, 35, 1547-1559 ○
- 27 Complete removal of 4-fluorophenol using a novel optical fiber photocatalysisBiodegradationIbn-adsorption system. **2023**, 464, 142631 ○
- 26 Metal derivative (MD)/g-C<sub>3</sub>N<sub>4</sub> association in hydrogen production: A study on the fascinating chemistry behind, current trend & future direction. **2023**, 80, 562-583 ○
- 25 Maximization of the photocatalytic degradation of diclofenac using polymeric g-C<sub>3</sub>N<sub>4</sub> by tuning the precursor and the synthetic protocol. **2023**, 418, 114075 ○
- 24 Highly selective and real-time detection of 5-hydroxymethylcytosine in genomic DNA using a carbon nitride-modified gold transducer-based electrochemical sensor. **2023**, 948, 169715 ○
- 23 Promotion of photocatalytic hydrogen evolution induced by graphitic carbon nitride transformation from 2D flakes to 1D nanowires. **2023**, 163, 112210 ○
- 22 Exploring nanoengineering strategies for the preparation of graphitic carbon nitride nanostructures. **2023**, 38, 100473 1
- 21 Upgrading of g-C<sub>3</sub>N<sub>4</sub> semiconductor by a Nitrogen-doped carbon material: A photocatalytic degradation application. **2023**, 11, 109381 1
- 20 Nanoarchitecture Manipulation by Polycondensation on KCl Crystals toward Crystalline Lamellar Carbon Nitride for Efficient H<sub>2</sub>O<sub>2</sub> Photoproduction. **2023**, 15, 8232-8240 ○
- 19 Nanostructured Layered Lithium Iridates as Electrocatalysts for Improved Oxygen Evolution Reaction. **2023**, 6, 2577-2584 ○
- 18 The Directional Crystallization Process of Poly (triazine imide) Single Crystals in Molten Salts. **2023**, 135, ○
- 17 The Directional Crystallization Process of Poly (triazine imide) Single Crystals in Molten Salts. **2023**, 62, ○
- 16 Frontier nanoarchitectonics of graphitic carbon nitride based plasmonic photocatalysts and photoelectrocatalysts for energy, environment and organic reactions. **2023**, 7, 1197-1247 ○

- 15 Designing Black Phosphorus and Heptazine-Based Crystalline Carbon Nitride Composites for Photocatalytic Water Splitting. **2023**, 13, 312
- 14 Green Light Photoelectrocatalysis with Sulfur-Doped Carbon Nitride: Using Triazole-Purpald for Enhanced Benzylamine Oxidation and Oxygen Evolution Reactions. 2300099
- 13 Crystallinity-defect matching relationship of g-C3N4: Experimental and theoretical perspectives. **2023**,
- 12 In Situ Polycondensation Synthesis of NiS-g-C3N4 Nanocomposites for Catalytic Hydrogen Generation from NaBH4. **2023**, 13, 938
- 11 Salt-melt Synthesis of Poly Heptazine Imides with Enhanced Optical Absorption for Photocatalytic Hydrogen Production.
- 10 Allochroic platinum/carbon nitride with photoactivated ohmic contact for efficient visible-light photocatalytic hydrogen evolution. **2023**, 462, 142337
- 9 Preparation of carbon quantum dots from ionic liquid modified biomass for the detection of Fe<sup>3+</sup> and Pd<sup>2+</sup> in environmental water. **2023**, 255, 114795
- 8 Anchored Cu single atoms on porous g-C3N4 for superior photocatalytic H<sub>2</sub> evolution from water splitting. **2023**, 13, 8915-8922
- 7 Potassium Molten Salt-Mediated In Situ Structural Reconstruction of a Carbon Nitride Photocatalyst. **2023**, 15, 18898-18906
- 6 A bimetallic co-doped iron and copper in polymeric graphitic carbon nitride to enhance catalytic activity and reusability of Fenton-like oxidation. **2023**, 316, 123782
- 5 Salt-Mediated Structural Transformation in Carbon Nitride: From Regulated Atomic Configurations to Enhanced Photocatalysis. **2023**, 13, 717
- 4 Stable and fast oil recovery by environmentally friendly and easy to synthesize pristine graphitic carbon nitride.
- 3 Comparative Investigation of Doping Cobalt in Graphitic Carbon Nitride with Different Precursors for Peracetic Acid Activation: Decontamination Performance, Catalytic Mechanisms, and Practicability.
- 2 Realigning the melon chains in carbon nitride by rubidium ions to promote photo-reductive activities for hydrogen evolution and environmental remediation. **2023**, 453, 131435
- 1 Advances in Organic Semiconductors for Photocatalytic Hydrogen Evolution Reaction.