

# CITATION REPORT

List of articles citing

Surface charge modification via protonation of graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) for electrostatic self-assembly construction of 2D/2D reduced graphene oxide (rGO)/g-C<sub>3</sub>N<sub>4</sub> nanostructures toward enhanced photocatalytic reduction of carbon dioxide to methane

DOI: 10.1016/j.nanoen.2015.03.014  
Nano Energy, 2015, 13, 757-770.

**Source:** <https://exaly.com/paper-pdf/62322597/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
652	Modulation of the Reduction Potential of TiO <sub>2</sub> x by Fluorination for Efficient and Selective CH <sub>4</sub> Generation from CO <sub>2</sub> Photoreduction.		1
651	Interfacial Engineering of a Carbon NitrideGraphene OxideMolecular Ni Catalyst Hybrid for Enhanced Photocatalytic Activity.		
650	Anomalous dielectric relaxation of water confined in graphite oxide. <b>2015</b> , 118, 124104		6
649	Excellent visible-light-driven photocatalytic performance of Cu <sub>2</sub> O sensitized NaNbO <sub>3</sub> heterostructures. <b>2015</b> , 39, 6171-6177		29
648	Recent advances in the development of sunlight-driven hollow structure photocatalysts and their applications. <b>2015</b> , 3, 18345-18359		166
647	Noble metal free naphthylbisimide/TiO <sub>2</sub> /graphene: an efficient H <sub>2</sub> evolution photocatalyst. <b>2015</b> , 39, 6925-6934		6
646	Ultra small gold nanoparticlesgraphitic carbon nitride composite: an efficient catalyst for ultrafast reduction of 4-nitrophenol and removal of organic dyes from water. <b>2015</b> , 5, 38760-38773		91
645	Photocatalytic overall water splitting over an open-framework gallium borate loaded with various cocatalysts. <b>2015</b> , 71, 17-20		20
644	Pulsed-Electromagnetic-Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells. <b>2016</b> , 5, 2069-79		23
643	Photocatalytic CO <sub>2</sub> conversion to methanol by Cu <sub>2</sub> O/graphene/TNA heterostructure catalyst in a visible-light-driven dual-chamber reactor. <i>Nano Energy</i> , <b>2016</b> , 27, 320-329	17.1	88
642	Hydrogen from Water over Openly-Structured Graphitic Carbon Nitride Polymer through Photocatalysis. <b>2016</b> , 9, 478-84		21
641	Two-dimensional ZnO ultrathin nanosheets decorated with Au nanoparticles for effective photocatalysis. <b>2016</b> , 120, 074301		19
640	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		73 <sup>o</sup>
639	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?. <b>2016</b> , 116, 7159-329		4 <sup>o</sup> 18
638	Molten salt synthesis of water-dispersible polymeric carbon nitride nanoseaweeds and their application as luminescent probes. <b>2016</b> , 102, 477-486		72
637	Efficient and stable perovskite solar cells based on functional graphene-modified P3HT hole-transporting layer. <b>2016</b> , 6, 36356-36361		34
636	Facile fabrication of acidified g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> hybrids with enhanced photocatalysis performance under visible light irradiation. <b>2016</b> , 193, 22-35		283

- 635 Constructing a novel carbon nitride/polyaniline/ZnO ternary heterostructure with enhanced photocatalytic performance using exfoliated carbon nitride nanosheets as supports. **2016**, 314, 67-77 90
- 634 Preparation and characterization of green graphene using grape seed extract for bioapplications. **2016**, 65, 345-53 48
- 633 Graphene oxide: Exploiting its unique properties toward visible-light-driven photocatalysis. **2016**, 4, 9-16 90
- 632 A novel method for evaluating the photoelectrocatalytic performance of reduced graphene oxide/protonated g-C<sub>3</sub>N<sub>4</sub> composites. **2016**, 176, 209-212 13
- 631 Electrocatalytic hydrogen evolution using the MS@MoS<sub>2</sub>/rGO (M = Fe or Ni) hybrid catalyst. **2016**, 52, 11795-11798 31
- 630 Solar and visible light photocatalytic enhancement of halloysite nanotubes/g-C<sub>3</sub>N<sub>4</sub> heteroarchitectures. **2016**, 6, 86617-86626 40
- 629 Oxygen-Deficient BiOBr as a Highly Stable Photocatalyst for Efficient CO<sub>2</sub> Reduction into Renewable Carbon-Neutral Fuels. **2016**, 8, 3074-3081 91
- 628 Nanostructured hybrid materials based on reduced graphene oxide for solar energy conversion. **2016**, 3 3
- 627 Recent Advances in Heterogeneous Photocatalytic CO<sub>2</sub> Conversion to Solar Fuels. **2016**, 6, 7485-7527 744
- 626 Fluorescent graphene-like carbon nitrides: synthesis, properties and applications. **2016**, 4, 8146-8160 62
- 625 Macroscopic Foam-Like Holey Ultrathin g-C<sub>3</sub>N<sub>4</sub> Nanosheets for Drastic Improvement of Visible-Light Photocatalytic Activity. **2016**, 6, 1601273 354
- 624 The synthesis of elegant hierarchical CdS via a facile hydrothermal method assisted by inorganic salt, with photocorrosion inhibition. **2016**, 18, 7523-7529 9
- 623 n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. *Nano Energy*, **2016**, 28, 158-163 17.1 70
- 622 Toward High Performance 2D/2D Hybrid Photocatalyst by Electrostatic Assembly of Rationally Modified Carbon Nitride on Reduced Graphene Oxide. **2016**, 6, 37318 21
- 621 In situ hydrothermal synthesis and enhanced photocatalytic H<sub>2</sub>-evolution performance of suspended rGO/g-C<sub>3</sub>N<sub>4</sub> photocatalysts. **2016**, 424, 369-376 35
- 620 Utilization of a pyrrole derivative based antimicrobial functionality impregnated onto CaO/g-C<sub>3</sub>N<sub>4</sub> for dyes adsorption. **2016**, 6, 89367-89379 20
- 619 Electro-Oxidation of Ni<sub>42</sub> Steel: A Highly Active Bifunctional Electrocatalyst. **2016**, 26, 6402-6417 67
- 618 Facile hydrothermal reduction synthesis of porous Co<sub>3</sub>O<sub>4</sub> nanosheets@RGO nanocomposite and applied as a supercapacitor electrode with enhanced specific capacitance and excellent cycle stability. **2016**, 222, 976-982 31

617	A three-dimensional graphitic carbon nitride belt network for enhanced visible light photocatalytic hydrogen evolution. <b>2016</b> , 4, 19003-19010	87
616	Graphitic Carbon Nitride as a Catalyst Support in Fuel Cells and Electrolyzers. <b>2016</b> , 222, 44-57	83
615	Hexagonal 2H-MoSe broad spectrum active photocatalyst for Cr(VI) reduction. <b>2016</b> , 6, 35304	55
614	Graphene in Photocatalysis: A Review. <b>2016</b> , 12, 6640-6696	605
613	Characterization of urea derived polymeric carbon nitride and resultant thermally vacuum deposited amorphous thin films: Structural, chemical and photophysical properties. <b>2016</b> , 107, 415-425	16
612	Construction of heterostructured g-C <sub>3</sub> N <sub>4</sub> /Ag/Bi <sub>3</sub> .64Mo <sub>0.36</sub> O <sub>6.55</sub> nanospheres with enhanced visible-light photocatalytic activity. <b>2016</b> , 169, 9-16	33
611	Trilayer CdS/carbon nanofiber (CNF) mat/Pt-TiO <sub>2</sub> composite structures for solar hydrogen production: Effects of CNF mat thickness. <b>2016</b> , 196, 216-222	25
610	Metal-Organic Framework-Based Nanomaterials for Electrocatalysis. <b>2016</b> , 6, 1600423	444
609	A review of one-dimensional TiO <sub>2</sub> nanostructured materials for environmental and energy applications. <b>2016</b> , 4, 6772-6801	655
608	Photogalvanics: A sustainable and promising device for solar energy conversion and storage. <b>2016</b> , 59, 662-691	13
607	Facile synthesis of 3D porous thermally exfoliated g-C <sub>3</sub> N <sub>4</sub> nanosheet with enhanced photocatalytic degradation of organic dye. <b>2016</b> , 468, 211-219	134
606	Boron doped BiOBr nanosheets with enhanced photocatalytic inactivation of Escherichia coli. <b>2016</b> , 192, 35-45	156
605	Construction of carbon quantum dots/proton-functionalized graphitic carbon nitride nanocomposite via electrostatic self-assembly strategy and its application. <b>2016</b> , 370, 514-521	74
604	One-pot synthesis of Mn-doped TiO <sub>2</sub> grown on graphene and the mechanism for removal of Cr(VI) and Cr(III). <b>2016</b> , 310, 188-98	82
603	Carbon-based two-dimensional layered materials for photocatalytic CO <sub>2</sub> reduction to solar fuels. <b>2016</b> , 3, 24-35	146
602	Facile synthesis of a visible light Fe <sub>2</sub> O <sub>3</sub> /BiOBr composite with high photocatalytic performance. <b>2016</b> , 6, 4035-4042	33
601	Phosphorous-modified bulk graphitic carbon nitride: Facile preparation and application as an acid-base bifunctional and efficient catalyst for CO <sub>2</sub> cycloaddition with epoxides. <b>2016</b> , 100, 81-89	145
600	An overview of the modification of g-C <sub>3</sub> N <sub>4</sub> with high carbon containing materials for photocatalytic applications. <b>2016</b> , 3, 336-347	168

599	Metal-organic framework derived hollow polyhedron metal oxide posited graphene oxide for energy storage applications. <b>2016</b> , 52, 946-9	40
598	Enhancement in the photocatalytic activity of carbon nitride through hybridization with light-sensitive AgCl for carbon dioxide reduction to methane. <b>2016</b> , 6, 744-754	45
597	Visible-light-activated oxygen-rich TiO <sub>2</sub> as next generation photocatalyst: Importance of annealing temperature on the photoactivity toward reduction of carbon dioxide. <b>2016</b> , 283, 1254-1263	57
596	In situ surface alkalinized g-C <sub>3</sub> N <sub>4</sub> toward enhancement of photocatalytic H <sub>2</sub> evolution under visible-light irradiation. <b>2016</b> , 4, 2943-2950	191
595	Heterostructured AgX/g-C <sub>3</sub> N <sub>4</sub> (X = Cl and Br) nanocomposites via a sonication-assisted deposition-precipitation approach: Emerging role of halide ions in the synergistic photocatalytic reduction of carbon dioxide. <b>2016</b> , 180, 530-543	232
594	A review on g-C <sub>3</sub> N <sub>4</sub> -based photocatalysts. <b>2017</b> , 391, 72-123	1687
593	Alternative photocatalysts to TiO <sub>2</sub> for the photocatalytic reduction of CO <sub>2</sub> . <b>2017</b> , 391, 149-174	137
592	Construction of a crossed-layer-structure MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction with enhanced photocatalytic performance. <b>2017</b> , 7, 6131-6139	57
591	A novel sandwich-type electrochemical immunosensor for PSA detection based on PtCu bimetallic hybrid (2D/2D) rGO/g-CN. <b>2017</b> , 91, 441-448	103
590	Highly enhanced photocatalytic degradation of methylene blue over the indirect all-solid-state Z-scheme g-C <sub>3</sub> N <sub>4</sub> -RGO-TiO <sub>2</sub> nanoheterojunctions. <b>2017</b> , 405, 60-70	276
589	A novel 2D/2D carbonized poly-(furfural alcohol)/g-C <sub>3</sub> N <sub>4</sub> nanocomposites with enhanced charge carrier separation for photocatalytic H <sub>2</sub> evolution. <b>2017</b> , 115, 486-492	41
588	Self-surface charge exfoliation and electrostatically coordinated 2D hetero-layered hybrids. <b>2017</b> , 8, 14224	243
587	Hierarchical Porous O-Doped g-C <sub>3</sub> N <sub>4</sub> with Enhanced Photocatalytic CO <sub>2</sub> Reduction Activity. <b>2017</b> , 13, 1603938	732
586	Harnessing Vis-NIR broad spectrum for photocatalytic CO <sub>2</sub> reduction over carbon quantum dots-decorated ultrathin Bi <sub>2</sub> WO <sub>6</sub> nanosheets. <b>2017</b> , 10, 1720-1731	107
585	Graphitic C <sub>3</sub> N <sub>4</sub> based noble-metal-free photocatalyst systems: A review. <b>2017</b> , 206, 556-588	451
584	In-Situ Immobilization of H <sub>5</sub> PMo <sub>10</sub> V <sub>2</sub> O <sub>40</sub> on Protonated Graphitic Carbon Nitride under Hydrothermal Conditions: A Highly Efficient and Reusable Catalyst for Hydroxylation of Benzene. <b>2017</b> , 56, 2711-2721	30
583	Unravelling charge carrier dynamics in protonated g-C <sub>3</sub> N <sub>4</sub> interfaced with carbon nanodots as co-catalysts toward enhanced photocatalytic CO <sub>2</sub> reduction: A combined experimental and first-principles DFT study. <b>2017</b> , 10, 1673-1696	290
582	Engineering interfacial charge-transfer by phase transition realizing enhanced photocatalytic hydrogen evolution activity. <b>2017</b> , 4, 663-667	19

581	P doped Co <sub>2</sub> Mo <sub>3</sub> Se nanosheets grown on carbon fiber cloth as an efficient hybrid catalyst for hydrogen evolution. <b>2017</b> , 5, 12043-12047	23
580	Impact of the crystallinity of mesoporous polymeric graphitic carbon nitride on the photocatalytic performance under UV and visible light. <b>2017</b> , 254, 136-145	7
579	Fabrication of Novel Ternary Three-Dimensional RuO <sub>2</sub> /Graphitic-C <sub>3</sub> N <sub>4</sub> @reduced Graphene Oxide Aerogel Composites for Supercapacitors. <b>2017</b> , 5, 4982-4991	61
578	Electrical properties and oxygen functionalities in ethanol-treated and thermally modified graphene oxide. <b>2017</b> , 121, 155105	4
577	H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> /mpg-C <sub>3</sub> N <sub>4</sub> as an efficient and reusable bifunctional catalyst in one-pot oxidation-Knoevenagel condensation tandem reaction. <b>2017</b> , 7, 405-417	52
576	Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS)-ZnO: A noble metal-free hybrid Z-scheme photocatalyst for enhanced solar-spectrum photocatalytic conversion of CO <sub>2</sub> to CH <sub>4</sub> . <b>2017</b> , 20, 301-311	60
575	Recent Progress in the Photocatalytic Reduction of Carbon Dioxide. <b>2017</b> , 2, 2740-2748	142
574	In Situ Construction of Globe-like Carbon Nitride as a Self-Cocatalyst Modified Tree-like Carbon Nitride for Drastic Improvement in Visible-Light Photocatalytic Hydrogen Evolution. <b>2017</b> , 9, 4035-4042	17
573	Ag-Modified BiOCl Single-Crystal Nanosheets: Dependence of Photocatalytic Performance on the Region-Selective Deposition of Ag Nanoparticles. <b>2017</b> , 121, 13191-13201	92
572	Controllable TiO <sub>2</sub> heterostructure with carbon hybrid materials for enhanced photoelectrochemical performance. <b>2017</b> , 41, 3460-3465	8
571	Enhanced photocatalytic activity by the construction of a TiO <sub>2</sub> /carbon nitride nanosheets heterostructure with high surface area via direct interfacial assembly. <b>2017</b> , 10, 2193-2209	57
570	Enriching CO <sub>2</sub> Activation Sites on Graphitic Carbon Nitride with Simultaneous Introduction of Electron-Transfer Promoters for Superior Photocatalytic CO <sub>2</sub> -to-Fuel Conversion. <b>2017</b> , 1, 1700003	50
569	In situ synthesis of cylindrical spongy polypyrrole doped protonated graphitic carbon nitride for cholesterol sensing application. <b>2017</b> , 94, 686-693	70
568	A Mussel-inspired method to fabricate reduced graphene oxide/g-C <sub>3</sub> N <sub>4</sub> composites membranes for catalytic decomposition and oil-in-water emulsion separation. <b>2017</b> , 322, 33-45	171
567	Carbon nitride supported AgPd alloy nanocatalysts for dehydrogenation of formic acid under visible light. <b>2017</b> , 5, 6382-6387	38
566	A novel Z-scheme BiPO <sub>4</sub> -BiO(OH)(NO) heterojunction structured hybrid for synergistic photocatalysis. <b>2017</b> , 171, 702-709	26
565	Two-dimensional porous architecture of protonated GCN and reduced graphene oxide via electrostatic self-assembly strategy for high photocatalytic hydrogen evolution under visible light. <b>2017</b> , 399, 139-150	56
564	TaOC chemical bond enhancing charge separation between Ta <sup>4+</sup> doped Ta <sub>2</sub> O <sub>5</sub> quantum dots and cotton-like g-C <sub>3</sub> N <sub>4</sub> . <b>2017</b> , 205, 271-280	56

563	Metal-free photocatalysts for various applications in energy conversion and environmental purification. <b>2017</b> , 19, 882-899	212
562	Effective Prevention of Charge Trapping in Graphitic Carbon Nitride with Nanosized Red Phosphorus Modification for Superior Photo(electro)catalysis. <b>2017</b> , 27, 1703484	113
561	A 2D self-assembled MoS/ZnInS heterostructure for efficient photocatalytic hydrogen evolution. <b>2017</b> , 9, 18290-18298	86
560	Sensitive electrochemical detection of tetrabromobisphenol A based on poly(diallyldimethylammonium chloride) modified graphitic carbon nitride-ionic liquid doped carbon paste electrode. <b>2017</b> , 254, 214-222	13
559	Twin defects engineered Pd cocatalyst on CN nanosheets for enhanced photocatalytic performance in CO reduction reaction. <b>2017</b> , 28, 484003	51
558	Furfuryl alcohol modified melamine sponge for highly efficient oil spill clean-up and recovery. <b>2017</b> , 5, 21893-21897	52
557	Prospects of electrochemically synthesized hematite photoanodes for photoelectrochemical water splitting: A review. <b>2017</b> , 33, 54-82	76
556	Formation of heterostructures via direct growth CN on h-BN porous nanosheets for metal-free photocatalysis. <i>Nano Energy</i> , <b>2017</b> , 42, 58-68	17.1 108
555	Amorphous CoB Grown on CoSe Nanosheets as a Hybrid Catalyst for Efficient Overall Water Splitting in Alkaline Medium. <b>2017</b> , 9, 39312-39317	63
554	Synthesis of 3D porous MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction as a high efficiency photocatalyst for boosting H <sub>2</sub> evolution activity. <b>2017</b> , 7, 40727-40733	31
553	Facile Construction of Metal-Free g-C <sub>3</sub> N <sub>4</sub> Isotype Heterojunction with Highly Enhanced Visible-light Photocatalytic Performance. <b>2017</b> , 2, 6970-6978	6
552	Two-dimensional nanomaterials for photocatalytic CO <sub>2</sub> reduction to solar fuels. <b>2017</b> , 1, 1875-1898	115
551	Antibacterial Activity of Graphene Oxide/g-C <sub>3</sub> N <sub>4</sub> Composite through Photocatalytic Disinfection under Visible Light. <b>2017</b> , 5, 8693-8701	169
550	2D Hybrid Nanomaterials for Selective Detection of NO and SO Using "Light On and Off" Strategy. <b>2017</b> , 9, 37191-37200	32
549	Assembling Hollow Cobalt Sulfide Nanocages Array on Graphene-like Manganese Dioxide Nanosheets for Superior Electrochemical Capacitors. <b>2017</b> , 9, 35040-35047	84
548	CO Reduction: From the Electrochemical to Photochemical Approach. <b>2017</b> , 4, 1700194	408
547	Photoassisted methanation using Cu <sub>2</sub> O nanoparticles supported on graphene as a photocatalyst. <b>2017</b> , 10, 2392-2400	68
546	Visible-Light Neural Stimulation on Graphitic-Carbon Nitride/Graphene Photocatalytic Fibers. <b>2017</b> , 9, 34736-34743	51

545	Spatial charge separation and transfer in ultrathin CdIn <sub>2</sub> S <sub>4</sub> /rGO nanosheet arrays decorated by ZnS quantum dots for efficient visible-light-driven hydrogen evolution. <i>Nano Energy</i> , <b>2017</b> , 39, 513-523	17.1	70
544	Nature-Mimic Method To Fabricate Polydopamine/Graphitic Carbon Nitride for Enhancing Photocatalytic Degradation Performance. <b>2017</b> , 5, 7840-7850		94
543	Carbon allotropes as sensors for environmental monitoring. <b>2017</b> , 3, 106-113		34
542	Graphene/graphitic carbon nitride hybrids for catalysis. <b>2017</b> , 4, 832-850		130
541	Uncondensed Graphitic Carbon Nitride on Reduced Graphene Oxide for Oxygen Sensing via a Photoredox Mechanism. <b>2017</b> , 9, 27142-27151		19
540	Preparation of an ultrathin 2D/2D rGO/g-C <sub>3</sub> N <sub>4</sub> nanocomposite with enhanced visible-light-driven photocatalytic performance. <b>2017</b> , 7, 36793-36799		21
539	Construction and preparation of novel 2D metal-free few-layer BN modified graphene-like g-CN with enhanced photocatalytic performance. <b>2017</b> , 46, 11250-11258		39
538	Enhanced Visible-Light-Driven Photocatalytic Disinfection Performance and Organic Pollutant Degradation Activity of Porous g-CN Nanosheets. <b>2017</b> , 9, 27727-27735		242
537	Solar-driven photodegradation of 17- $\beta$ -Estradiol and ciprofloxacin from waste water and CO <sub>2</sub> conversion using sustainable coal-char/polymeric-g-C <sub>3</sub> N <sub>4</sub> /RGO metal-free nano-hybrids. <b>2017</b> , 41, 10208-10224		72
536	High-Efficiency Broadband C <sub>3</sub> N <sub>4</sub> Photocatalysts: Synergistic Effects from Upconversion and Plasmons. <b>2017</b> , 7, 6225-6234		103
535	Highly enhanced and stable activity of defect-induced titania nanoparticles for solar light-driven CO <sub>2</sub> reduction into CH <sub>4</sub> . <b>2017</b> , 20, 507-515		84
534	The physics and chemistry of graphene-on-surfaces. <b>2017</b> , 46, 4417-4449		247
533	Graphenes as additives in photoelectrocatalysis. <b>2017</b> , 5, 16522-16536		19
532	A direct Z-scheme g-C <sub>3</sub> N <sub>4</sub> /SnS <sub>2</sub> photocatalyst with superior visible-light CO <sub>2</sub> reduction performance. <b>2017</b> , 352, 532-541		554
531	Protonation of Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) for an Electrostatically Self-Assembling Carbon@g-C <sub>3</sub> N <sub>4</sub> Core-shell Nanostructure toward High Hydrogen Evolution. <b>2017</b> , 5, 7093-7103		197
530	Carboxyl-rich g-C <sub>3</sub> N <sub>4</sub> nanoparticles: Synthesis, characterization and their application for selective fluorescence sensing of Hg <sup>2+</sup> and Fe <sup>3+</sup> in aqueous media. <b>2017</b> , 242, 244-252		90
529	Hydrogen production in the electrolysis of water in Brazil, a review. <b>2017</b> , 68, 563-571		69
528	Carbon nitride nanodots decorated brookite TiO <sub>2</sub> quasi nanocubes for enhanced activity and selectivity of visible-light-driven CO <sub>2</sub> reduction. <b>2017</b> , 203, 910-916		67



527	Recent Progress on Visible Light Responsive Heterojunctions for Photocatalytic Applications. <b>2017</b> , 33, 1-22	146
526	Synthesis of SnO <sub>2</sub> /B-P codoped g-C <sub>3</sub> N <sub>4</sub> nanocomposites as efficient cocatalyst-free visible-light photocatalysts for CO <sub>2</sub> conversion and pollutant degradation. <b>2017</b> , 201, 486-494	210
525	Incorporating a novel metal-free interlayer into g-C <sub>3</sub> N <sub>4</sub> framework for efficiency enhanced photocatalytic H <sub>2</sub> evolution activity. <b>2017</b> , 203, 65-71	111
524	Constructing a novel ternary composite (C <sub>16</sub> H <sub>33</sub> (CH <sub>3</sub> ) <sub>3</sub> N) <sub>4</sub> W <sub>10</sub> O <sub>32</sub> /g-C <sub>3</sub> N <sub>4</sub> /rGO with enhanced visible-light-driven photocatalytic activity for degradation of dyes and phenol. <b>2017</b> , 200, 283-296	78
523	A surface modification resultant thermally oxidized porous g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic hydrogen production. <b>2017</b> , 204, 335-345	217
522	Photocatalytic reduction of CO <sub>2</sub> with H <sub>2</sub> O over graphene oxide-supported oxygen-rich TiO <sub>2</sub> hybrid photocatalyst under visible light irradiation: Process and kinetic studies. <b>2017</b> , 308, 248-255	109
521	Surface modification and enhanced photocatalytic CO <sub>2</sub> reduction performance of TiO <sub>2</sub> : a review. <b>2017</b> , 392, 658-686	782
520	2D/2D Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) Heterojunction Nanocomposites for Photocatalysis: Why Does Face-to-Face Interface Matter?. <b>2017</b> , 4,	178
519	Synergistic effect of metal ion additives on graphitic carbon nitride nanosheet-templated electrodeposition of Cu@CuO for enzyme-free glucose detection. <b>2018</b> , 745, 155-163	19
518	Enhanced hydrogen production by the protonated, sulfur doped and Pt-loaded g-C <sub>3</sub> N <sub>4</sub> nanolayers. <b>2018</b> , 218, 169-172	9
517	Molecular engineering of polymeric carbon nitride: advancing applications from photocatalysis to biosensing and more. <b>2018</b> , 47, 2298-2321	362
516	Constructing a direct Z-scheme La <sub>2</sub> NiO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> hybrid photocatalyst with boosted visible light photocatalytic activity. <b>2018</b> , 201, 327-335	39
515	Porous graphitic carbon nitride nanosheets by pre-polymerization for enhanced photocatalysis. <b>2018</b> , 139, 89-99	46
514	Synthesis of In <sub>2</sub> Se <sub>3</sub> homojunction photocatalyst with $\beta$ and $\gamma$ phases for efficient photocatalytic performance. <b>2018</b> , 151, 74-82	19
513	Photocatalytic CO conversion by polymeric carbon nitrides. <b>2018</b> , 54, 5674-5687	126
512	Novel reduced graphene oxide-supported Cd <sub>0.5</sub> Zn <sub>0.5</sub> /g-C <sub>3</sub> N <sub>4</sub> Z-scheme heterojunction photocatalyst for enhanced hydrogen evolution. <b>2018</b> , 447, 783-794	88
511	Graphitic carbon nitride nanosheet wrapped mesoporous titanium dioxide for enhanced photoelectrocatalytic water splitting. <b>2018</b> , 315, 103-109	42
510	Protonated graphitic carbon nitride coated metal-organic frameworks with enhanced visible-light photocatalytic activity for contaminants degradation. <b>2018</b> , 441, 85-98	64

509	The synthesis and synergistic catalysis of iron phthalocyanine and its graphene-based axial complex for enhanced oxygen reduction. <i>Nano Energy</i> , <b>2018</b> , 46, 347-355	17.1	81
508	Role of Interfaces in Two-Dimensional Photocatalyst for Water Splitting. <b>2018</b> , 8, 2253-2276		558
507	Phosphorus-Doped Graphitic Carbon Nitride Nanotubes with Amino-rich Surface for Efficient CO Capture, Enhanced Photocatalytic Activity, and Product Selectivity. <b>2018</b> , 10, 4001-4009		224
506	Graphene Quantum-Dot-Modified Hexagonal Tubular Carbon Nitride for Visible-Light Photocatalytic Hydrogen Evolution. <b>2018</b> , 10, 1330-1335		64
505	Covalently bonded 2D/2D O-g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> heterojunction for enhanced visible-light photocatalytic hydrogen evolution. <b>2018</b> , 237, 1130-1138		89
504	Reduced Graphene Oxide-Cadmium Sulfide Nanorods Decorated with Silver Nanoparticles for Efficient Photocatalytic Reduction Carbon Dioxide Under Visible Light. <b>2018</b> , 10, 1627-1634		55
503	Engineering nanoscale p/n junction via the synergetic dual-doping of p-type boron-doped graphene hybridized with n-type oxygen-doped carbon nitride for enhanced photocatalytic hydrogen evolution. <b>2018</b> , 6, 3181-3194		95
502	Photocatalytic NH <sub>3</sub> versus H <sub>2</sub> evolution over g-C <sub>3</sub> N <sub>4</sub> /Cs <sub>x</sub> WO <sub>3</sub> :O <sub>2</sub> and methanol tipping the scale. <b>2018</b> , 235, 197-206		36
501	Multifunctional g-C <sub>3</sub> N <sub>4</sub> /graphene oxide wrapped sponge monoliths as highly efficient adsorbent and photocatalyst. <b>2018</b> , 235, 17-25		89
500	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
499	A facile dissolution strategy facilitated by H <sub>2</sub> SO <sub>4</sub> to fabricate a 2D metal-free g-C <sub>3</sub> N <sub>4</sub> /rGO heterojunction for efficient photocatalytic H <sub>2</sub> production. <b>2018</b> , 43, 7007-7019		34
498	Heteroatom-Doped Carbonaceous Photocatalysts for Solar Fuel Production and Environmental Remediation. <b>2018</b> , 10, 62-123		32
497	g-C <sub>3</sub> N <sub>4</sub> based composite photocatalysts for photocatalytic CO <sub>2</sub> reduction. <b>2018</b> , 300, 160-172		176
496	A self-assembled 2D/2D-type protonated carbon nitride-modified graphene oxide nanocomposite with improved photocatalytic activity. <b>2018</b> , 434, 456-463		41
495	Enhanced photocatalytic activity of mesoporous carbon/CN composite photocatalysts. <b>2018</b> , 512, 474-479		17
494	Bonding CdS-Sn <sub>2</sub> S <sub>3</sub> eutectic clusters on graphene nanosheets with unusually photoreaction-driven structural reconfiguration effect for excellent H <sub>2</sub> evolution and Cr(VI) reduction. <b>2018</b> , 222, 157-166		59
493	Graphene-based heterojunction photocatalysts. <b>2018</b> , 430, 53-107		293
492	Graphene and g-C <sub>3</sub> N <sub>4</sub> based photocatalysts for NO <sub>x</sub> removal: A review. <b>2018</b> , 430, 18-52		121

491	Photocatalytic fixation of nitrogen to ammonia: state-of-the-art advancements and future prospects. <b>2018</b> , 5, 9-27	435
490	Preparation of 2D/2D g-C <sub>3</sub> N <sub>4</sub> nanosheet@ZnIn <sub>2</sub> S <sub>4</sub> nanoleaf heterojunctions with well-designed high-speed charge transfer nanochannels towards high-efficiency photocatalytic hydrogen evolution. <b>2018</b> , 220, 542-552	236
489	g-C <sub>3</sub> N <sub>4</sub> -Based Heterostructured Photocatalysts. <b>2018</b> , 8, 1701503	1245
488	Immobilization of 2D/2D structured g-C <sub>3</sub> N <sub>4</sub> nanosheet/reduced graphene oxide hybrids on 3D nickel foam and its photocatalytic performance. <b>2018</b> , 97, 306-313	20
487	Exceptional photocatalytic activities for CO <sub>2</sub> conversion on Al O bridged g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> z-scheme nanocomposites and mechanism insight with isotopesZ. <b>2018</b> , 221, 459-466	128
486	Katalyse der Kohlenstoffdioxid-Photoreduktion an Nanoschichten: Grundlagen und Herausforderungen. <b>2018</b> , 130, 7734-7752	19
485	Boosting visible light photocatalytic hydrogen evolution of graphitic carbon nitride via enhancing its interfacial redox activity with cobalt/nitrogen doped tubular graphitic carbon. <b>2018</b> , 225, 512-518	50
484	Monolithic aerogel photocatalysts: a review. <b>2018</b> , 6, 754-775	100
483	Catalysis of Carbon Dioxide Photoreduction on Nanosheets: Fundamentals and Challenges. <b>2018</b> , 57, 7610-7627	242
482	CoMoS <sub>2</sub> /rGO/C <sub>3</sub> N <sub>4</sub> ternary heterojunctions catalysts with high photocatalytic activity and stability for hydrogen evolution under visible light irradiation. <b>2018</b> , 435, 1296-1306	26
481	2D/2D g-C <sub>3</sub> N <sub>4</sub> /MnO <sub>2</sub> Nanocomposite as a Direct Z-Scheme Photocatalyst for Enhanced Photocatalytic Activity. <b>2018</b> , 6, 965-973	392
480	Intercalative hybridization of layered double hydroxide nanocrystals with mesoporous g-CN for enhancing visible light-induced H <sub>2</sub> production efficiency. <b>2018</b> , 47, 2949-2955	10
479	Ruthenium Ion-Complexed Graphitic Carbon Nitride Nanosheets Supported on Reduced Graphene Oxide as High-Performance Catalysts for Electrochemical Hydrogen Evolution. <b>2018</b> , 11, 130-136	54
478	Alkali-assisted fabrication of holey carbon nitride nanosheet with tunable conjugated system for efficient visible-light-driven water splitting. <b>2018</b> , 224, 877-885	55
477	Toward noble-metal-free visible-light-driven photocatalytic hydrogen evolution: Monodisperse sub-15 nm Ni <sub>2</sub> P nanoparticles anchored on porous g-C <sub>3</sub> N <sub>4</sub> nanosheets to engineer 0D-2D heterojunction interfaces. <b>2018</b> , 221, 47-55	210
476	Boosted visible light photodegradation activity of boron doped rGO/g-C <sub>3</sub> N <sub>4</sub> nanocomposites: the role of C-B bonds. <b>2018</b> , 42, 17644-17651	12
475	Role of Graphene in Photocatalytic Solar Fuel Generation. <b>2018</b> ,	1
474	Graphene-Sensitized Perovskite Oxide Monolayer Nanosheets for Efficient Photocatalytic Reaction. <b>2018</b> , 28, 1806284	37

473	Requirements for efficient metal oxide photocatalysts for CO <sub>2</sub> reduction. <b>2018</b> , 275-301	2
472	Potassium-Functionalized Graphitic Carbon Nitride Supported on Reduced Graphene Oxide as a Sustainable Catalyst for Knoevenagel Condensation. <b>2018</b> , 1, 6711-6723	36
471	Effects of Protonation, Hydroxylamination, and Hydrazination of g-C <sub>3</sub> N <sub>4</sub> on the Performance of Matrimid/g-C <sub>3</sub> N <sub>4</sub> Membranes. <b>2018</b> , 8,	12
470	In Situ-Fabricated 2D/2D Heterojunctions of Ultrathin SiC/Reduced Graphene Oxide Nanosheets for Efficient CO Photoreduction with High CH Selectivity. <b>2018</b> , 11, 4237-4245	30
469	Rapid and energy-efficient preparation of boron doped g-C <sub>3</sub> N <sub>4</sub> with excellent performance in photocatalytic H <sub>2</sub> -evolution. <b>2018</b> , 43, 19984-19989	84
468	Z-Scheme Au@Void@g-CN/SnS Yolk-Shell Heterostructures for Superior Photocatalytic CO Reduction under Visible Light. <b>2018</b> , 10, 34123-34131	85
467	Ultralong Nanostructured Carbon Nitride Wires and Self-Standing C-Rich Filters from Supramolecular Microspheres. <b>2018</b> , 10, 39688-39694	26
466	Roles and Properties of Cocatalysts in Semiconductor-Based Materials for Efficient CO <sub>2</sub> Photoreduction. <b>2018</b> , 275-305	0
465	Improved interfacial bonding of graphene-TiO <sub>2</sub> with enhanced photocatalytic reduction of CO <sub>2</sub> into solar fuel. <b>2018</b> , 6, 6947-6957	32
464	The Ternary Heterostructures of BiOBr/Ultrathin g-C <sub>3</sub> N <sub>4</sub> /Black Phosphorous Quantum Dot Composites for Photodegradation of Tetracycline. <b>2018</b> , 10,	7
463	Carbon-Based, Metal-Free Catalysts for Photocatalysis. <b>2018</b> , 457-500	0
462	Carbon nitrides and metal nanoparticles: from controlled synthesis to design principles for improved photocatalysis. <b>2018</b> , 47, 7783-7817	167
461	Target preparation of multicomponent composites Au@CdS/g-C <sub>3</sub> N <sub>4</sub> as efficient visible light photocatalysts with the assistance of biomolecules. <b>2018</b> , 108, 176-186	19
460	Drastically enhanced visible light-driven H <sub>2</sub> evolution by anchoring TiO <sub>2</sub> nanoparticles on molecularly grafted carbon nitride nanosheets via a multiple modification strategy. <b>2018</b> , 47, 14556-14565	4
459	Facile construction of leaf-like WO <sub>3</sub> nanoflakes decorated on g-C <sub>3</sub> N <sub>4</sub> towards efficient oxidation of alcohols under mild conditions. <b>2018</b> , 42, 16523-16532	14
458	Highly Efficient Photo-Reduction of p-Nitrophenol by Protonated Graphitic Carbon Nitride Nanosheets. <b>2018</b> , 10, 4747-4754	27
457	Positioning cyanamide defects in g-C <sub>3</sub> N <sub>4</sub> : Engineering energy levels and active sites for superior photocatalytic hydrogen evolution. <b>2018</b> , 237, 24-31	131
456	Sunlight-driven water-splitting using two-dimensional carbon based semiconductors. <b>2018</b> , 6, 12876-12931	159

455	Research on the techniques of ultrasound-assisted liquid-phase peeling, thermal oxidation peeling and acid-base chemical peeling for ultra-thin graphite carbon nitride nanosheets. <b>2018</b> , 48, 181-187	14
454	g-C <sub>3</sub> N <sub>4</sub> @Fe <sub>2</sub> O <sub>3</sub> /C Photocatalysts: Synergistically Intensified Charge Generation and Charge Transfer for NADH Regeneration. <b>2018</b> , 8, 5664-5674	99
453	Coaddition of Phosphorus and Proton to Graphitic Carbon Nitride for Synergistically Enhanced Visible Light Photocatalytic Degradation and Hydrogen Evolution. <b>2018</b> , 6, 8167-8177	24
452	Facile fabrication of a BiOI/TiO <sub>2</sub> p-n junction via a surface charge-induced electrostatic self-assembly method. <b>2018</b> , 457, 59-68	33
451	Synthesized Hollow TiO <sub>2</sub> @g-C <sub>3</sub> N <sub>4</sub> Composites for Carbon dioxide Reduction Under Visible Light. <b>2018</b> , 148, 2812-2821	10
450	Metal-Free Flexible Protonated g-C <sub>3</sub> N <sub>4</sub> /Carbon Dots Photoanode for Photoelectrochemical Water Splitting. <b>2018</b> , 5, 2734-2737	16
449	Synergistic effects of MoO <sub>2</sub> nanosheets and graphene-like C <sub>3</sub> N <sub>4</sub> for highly improved visible light photocatalytic activities. <b>2018</b> , 457, 1142-1150	20
448	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
447	Immobilization of g-CN nanosheets on diatomite electrostatic adsorption and their photocatalytic activity.. <b>2018</b> , 8, 28032-28040	13
446	Graphene-Based Photocatalytic Materials for Conversion of Carbon Dioxide to Solar Fuels. <b>2018</b> , 396-412	2
445	Construction of 3D porous g-C <sub>3</sub> N <sub>4</sub> /AgBr/rGO composite for excellent visible light photocatalytic activity. <b>2018</b> , 458, 586-596	73
444	Facile preparation with high yield of a 3D porous graphitic carbon nitride for dramatically enhanced photocatalytic H <sub>2</sub> evolution under visible light. <b>2018</b> , 238, 294-301	30
443	Covalent Functionalization of Carbon Nitride Frameworks through Cross-Coupling Reactions. <b>2018</b> , 24, 14921-14927	33
442	Selective Production of Benzaldehyde Using Metal-Free Reduced Graphene Oxide/Carbon Nitride Hybrid Photocatalysts. <b>2018</b> , 3, 8070-8081	12
441	g-C <sub>3</sub> N <sub>4</sub> -Based Nanomaterials for Visible Light-Driven Photocatalysis. <b>2018</b> , 8, 74	141
440	Label-Free Simultaneous Analysis of Fe(III) and Ascorbic Acid Using Fluorescence Switching of Ultrathin Graphitic Carbon Nitride Nanosheets. <b>2018</b> , 10, 26118-26127	59
439	Controllable synthesis of graphitic carbon nitride nanomaterials for solar energy conversion and environmental remediation: the road travelled and the way forward. <b>2018</b> , 8, 4576-4599	72
438	Dramatic visible photocatalytic performance of g-C <sub>3</sub> N <sub>4</sub> -based nanocomposite due to the synergistic effect of AgBr and ZnO semiconductors. <b>2018</b> , 122, 174-183	18

437	Converting CO into fuels by graphitic carbon nitride-based photocatalysts. <b>2018</b> , 29, 412001	40
436	A critical review on TiO <sub>2</sub> based photocatalytic CO <sub>2</sub> reduction system: Strategies to improve efficiency. <b>2018</b> , 26, 98-122	179
435	Black phosphorus quantum dot/g-C <sub>3</sub> N <sub>4</sub> composites for enhanced CO <sub>2</sub> photoreduction to CO. <b>2018</b> , 61, 1159-1166	84
434	In-situ self-sacrificial fabrication of lanthanide hydroxycarbonates/graphitic carbon nitride heterojunctions: nitrogen photofixation under simulated solar light irradiation. <b>2018</b> , 347, 849-859	44
433	Recent progress on band and surface engineering of graphitic carbon nitride for artificial photosynthesis. <b>2018</b> , 462, 693-712	35
432	Construction of Bi <sub>2</sub> WO <sub>6</sub> /RGO/g-C <sub>3</sub> N <sub>4</sub> 2D/2D/2D hybrid Z-scheme heterojunctions with large interfacial contact area for efficient charge separation and high-performance photoreduction of CO <sub>2</sub> and H <sub>2</sub> O into solar fuels. <b>2018</b> , 239, 586-598	189
431	Effect of porous modification on the synthesis and photocatalytic activity of graphitic carbon nitride/carbon quantum dot nanocomposite. <b>2018</b> , 29, 17454-17462	5
430	The ultra-rapid synthesis of rGO/g-C <sub>3</sub> N <sub>4</sub> composite via microwave heating with enhanced photocatalytic performance. <b>2018</b> , 232, 107-109	14
429	Enhanced Schottky effect of a 2D-2D CoP/g-CN interface for boosting photocatalytic H evolution. <b>2018</b> , 10, 12315-12321	137
428	Bismuth Vanadate with Electrostatically Anchored 3D Carbon Nitride Nano-networks as Efficient Photoanodes for Water Oxidation. <b>2018</b> , 11, 2510-2516	18
427	Anchoring Active Pt /Pt Hybrid Nanodots on g-C N Nitrogen Vacancies for Photocatalytic H Evolution. <b>2019</b> , 12, 2029-2034	35
426	Plasma-based surface modification of g-C <sub>3</sub> N <sub>4</sub> nanosheets for highly efficient photocatalytic hydrogen evolution. <b>2019</b> , 495, 143520	52
425	Self-assembly method assisted synthesis of g-C <sub>3</sub> N <sub>4</sub> /ZnO heterostructure nanocomposites with enhanced photocatalytic performance. <b>2019</b> , 96, 109266	18
424	Visible light-driven enhanced CO <sub>2</sub> reduction by water over Cu modified S-doped g-C <sub>3</sub> N <sub>4</sub> . <b>2019</b> , 9, 4598-4613	32
423	Fabricated rGO-modified AgS nanoparticles/g-CN nanosheets photocatalyst for enhancing photocatalytic activity. <b>2019</b> , 554, 468-478	53
422	Real-time optical and electronic sensing with a $\beta$ -amino enone linked, triazine-containing 2D covalent organic framework. <b>2019</b> , 10, 3228	63
421	Two-Dimensional Cobaltporphyrin-based CobaltOrganic Framework as an Efficient Photocatalyst for CO <sub>2</sub> Reduction Reaction: A Computational Study. <b>2019</b> , 7, 14102-14110	21
420	Light-driven carbon dioxide reduction to methane by Methanosarcina barkeri-CdS biohybrid. <b>2019</b> , 257, 117916	48

419	Improved photocatalytic activity of WO <sub>3</sub> /C <sub>3</sub> N <sub>4</sub> : By constructing an anchoring morphology with a Z-scheme band structure. <b>2019</b> , 95, 105926	11
418	Protonation and microwave-assisted heating induced excitation of lone-pair electrons in graphitic carbon nitride for increased photocatalytic hydrogen generation. <b>2019</b> , 7, 20223-20228	36
417	N-doped C dot/CoAl-layered double hydroxide/g-C <sub>3</sub> N <sub>4</sub> hybrid composites for efficient and selective solar-driven conversion of CO <sub>2</sub> into CH <sub>4</sub> . <b>2019</b> , 176, 107212	47
416	Construction of silver/graphitic-C <sub>3</sub> N <sub>4</sub> /bismuth tantalate Z-scheme photocatalyst with enhanced visible-light-driven performance for sulfamethoxazole degradation. <b>2019</b> , 378, 122122	96
415	Steering charge kinetics boost the photocatalytic activity of graphitic carbon nitride: heteroatom-mediated spatial charge separation and transfer. <b>2019</b> , 53, 015502	23
414	PVDF Nanofibers with Embedded Polyaniline/Graphitic Carbon Nitride Nanosheet Composites for Piezoelectric Energy Conversion. <b>2019</b> , 2, 7328-7339	29
413	1D/2D MnWO <sub>4</sub> nanorods anchored on g-C <sub>3</sub> N <sub>4</sub> nanosheets for enhanced photocatalytic degradation ofloxacin under visible light irradiation. <b>2019</b> , 581, 123845	22
412	rGO/g-C <sub>3</sub> N <sub>4</sub> photocatalyst with an enhanced catalytic activity for NO removal. <b>2019</b> , 6, 125509	6
411	The zeta potentials of g-C <sub>3</sub> N <sub>4</sub> nanoparticles: Effect of electrolyte, ionic strength, pH, and humic acid. <b>2019</b> , 21, 1	13
410	Two-dimensional carbon nitride-based composites for photocatalytic hydrogen evolution. <b>2019</b> , 44, 30935-30948	48
409	Ultrathin Graphitic Carbon Nitride Nanosheets as Efficient Catalysts for Degradation of Pollutants under Visible Light. <b>2019</b> , 4, 11815-11821	3
408	Rational Construction of Z-Scheme CuInS <sub>2</sub> /Au/g-C <sub>3</sub> N <sub>4</sub> Heterostructure: Experimental Results and Theoretical Calculation. <b>2019</b> , 11, 6372-6383	18
407	Powerful combination of g-CN and LDHs for enhanced photocatalytic performance: A review of strategy, synthesis, and applications. <b>2019</b> , 272, 101999	80
406	Stimulating antibacterial activities of graphitic carbon nitride nanosheets with plasma treatment. <b>2019</b> , 11, 18416-18425	24
405	Enhanced CH <sub>4</sub> selectivity in CO <sub>2</sub> photocatalytic reduction over carbon quantum dots decorated and oxygen doping g-C <sub>3</sub> N <sub>4</sub> . <b>2019</b> , 12, 2749-2759	63
404	Recent trends in photocatalytic materials for reduction of carbon dioxide to methanol. <b>2019</b> , 116, 109389	37
403	Black Phosphorus, a Rising Star 2D Nanomaterial in the Post-Graphene Era: Synthesis, Properties, Modifications, and Photocatalysis Applications. <b>2019</b> , 15, e1804565	168
402	Powerful combination of MOFs and C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic performance. <b>2019</b> , 247, 24-48	170

401	Novel CoAl-LDH/g-CN/RGO ternary heterojunction with notable 2D/2D/2D configuration for highly efficient visible-light-induced photocatalytic elimination of dye and antibiotic pollutants. <b>2019</b> , 368, 778-787	84
400	Comparison of TiO <sub>2</sub> and g-C <sub>3</sub> N <sub>4</sub> 2D/2D nanocomposites from three synthesis protocols for visible-light induced hydrogen evolution. <b>2019</b> , 9, 75-85	29
399	Enhanced solar light photoreduction of innovative TiO <sub>2</sub> nanospherical shell by reduced graphene oxide for removal silver ions from aqueous media. <b>2019</b> , 7, 103168	6
398	Recent advances in 3D g-C <sub>3</sub> N <sub>4</sub> composite photocatalysts for photocatalytic water splitting, degradation of pollutants and CO <sub>2</sub> reduction. <b>2019</b> , 802, 196-209	151
397	Synthesis and characterization of 2D/0D g-C <sub>3</sub> N <sub>4</sub> /CdS-nitrogen doped hollow carbon spheres (NHCs) composites with enhanced visible light photodegradation activity for antibiotic. <b>2019</b> , 374, 479-493	78
396	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
395	Voltammetric determination of adefovir dipivoxil by using a nanocomposite prepared from molecularly imprinted poly(o-phenylenediamine), multi-walled carbon nanotubes and carbon nitride. <b>2019</b> , 186, 427	8
394	Constructing electrostatic self-assembled 2D/2D ultra-thin ZnIn <sub>2</sub> S <sub>4</sub> /protonated g-C <sub>3</sub> N <sub>4</sub> heterojunctions for excellent photocatalytic performance under visible light. <b>2019</b> , 256, 117862	104
393	Effective photoreduction of graphene oxide for photodegradation of volatile organic compounds.. <b>2019</b> , 9, 18076-18086	30
392	CO <sub>2</sub> , water, and sunlight to hydrocarbon fuels: a sustained sunlight to fuel (Joule-to-Joule) photoconversion efficiency of 1%. <b>2019</b> , 12, 2685-2696	71
391	Well-dispersed CoS <sub>x</sub> nanoparticles modified tubular sulfur doped carbon nitride for enhanced photocatalytic H <sub>2</sub> production activity. <b>2019</b> , 44, 14550-14560	23
390	Hydroxylated carbon nanotube/carbon nitride nanobelt composites with enhanced photooxidation and H <sub>2</sub> evolution efficiency. <b>2019</b> , 150, 340-348	35
389	Hierarchical Nanostructured Photocatalysts for CO <sub>2</sub> Photoreduction. <b>2019</b> , 9, 370	34
388	Effect of heterojunctions and phase-junctions on visible-light photocatalytic hydrogen evolution in BCN-TiO <sub>2</sub> photocatalysts. <b>2019</b> , 727, 11-18	13
387	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
386	A study on divergent functional properties of sphere-like CuWO <sub>4</sub> anchored on 2D graphene oxide sheets towards the photocatalysis of ciprofloxacin and electrocatalysis of methanol. <b>2019</b> , 30, 10172-10182	8
385	Nanophotocatalysis and Environmental Applications. <b>2019</b> ,	4
384	Interfacial engineering of graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )-based metal sulfide heterojunction photocatalysts for energy conversion: A review. <b>2019</b> , 40, 289-319	309



383	Nano CuO/g-CN sheets-based ultrafiltration membrane with enhanced interfacial affinity, antifouling and protein separation performances for water treatment application. <b>2019</b> , 82, 57-69	62
382	Reconstructing Dual-Induced {0 0 1} Facets Bismuth Oxychloride Nanosheets Heterostructures: An Effective Strategy to Promote Photocatalytic Oxygen Evolution. <b>2019</b> , 3, 1900059	28
381	Atomically dispersed Mo atoms on amorphous g-C3N4 promotes visible-light absorption and charge carriers transfer. <b>2019</b> , 250, 273-279	57
380	A graphitic carbon nitride (g-C3N4/Fe3O4) nanocomposite: an efficient electrode material for the electrochemical determination of tramadol in human biological fluids. <b>2019</b> , 11, 2064-2071	31
379	Carbon Nitride: A Wonder Photocatalyst. <b>2019</b> , 167-209	1
378	Role of SnS2 in 2D SnS2/TiO2 Nanosheet Heterojunctions for Photocatalytic Hydrogen Evolution. <b>2019</b> , 2, 2144-2151	44
377	Tin disulfide based ternary composites for visible light driven photoelectrochemical water splitting. <b>2019</b> , 44, 11584-11592	10
376	Indirect Z-Scheme Assembly of 2D ZnV2O6/RGO/g-C3N4 Nanosheets with RGO/pCN as Solid-State Electron Mediators toward Visible-Light-Enhanced CO2 Reduction. <b>2019</b> ,	64
375	BiOCl/AgCl-BiOI/AgI quaternary nanocomposite for the efficient photodegradation of organic wastewaters and pathogenic bacteria under visible light. <b>2019</b> , 29, 100789	18
374	Functionality of TERGO Powders during the Synthesis of PANI-Based Composites for Electrical Devices. <b>2019</b> , 2019, 1-17	1
373	rGO/Fe-doped g-C3N4 visible-light driven photocatalyst with improved NO removal performance. <b>2019</b> , 375, 40-47	14
372	Surface P atom grafting of g-C3N4 for improved local spatial charge separation and enhanced photocatalytic H2 production. <b>2019</b> , 7, 7628-7635	34
371	Modulating charge transfer dynamics for g-C3N4 through a dimension and interface engineered transition metal phosphide co-catalyst for efficient visible-light photocatalytic hydrogen generation. <b>2019</b> , 7, 6939-6945	42
370	2D/2D heterojunction of TiC/g-CN nanosheets for enhanced photocatalytic hydrogen evolution. <b>2019</b> , 11, 8138-8149	197
369	Cocatalysts for Selective Photoreduction of CO into Solar Fuels. <b>2019</b> , 119, 3962-4179	965
368	On the Colloidal Stability of Nitrogen-Rich Carbon Nanodots Aqueous Dispersions. <b>2019</b> , 5, 74	6
367	Fabrication of a Cu2-xSe/rGO heterojunction photocatalyst to achieve efficient photocatalytic H2 generation. <b>2019</b> , 44, 32042-32053	14
366	Surface modification of porous g-C3N4 materials using a waste product for enhanced photocatalytic performance under visible light. <b>2019</b> , 21, 5934-5944	19

365	Core/Shell Structure of Mesoporous Carbon Spheres and g-C3N4 for Acid Red 18 Decolorization. <b>2019</b> , 9, 1007	5
364	Graphitic Carbon Nitride and Titanium Dioxide Modified with 1 D and 2 D Carbon Structures for Photocatalysis. <b>2019</b> , 12, 612-620	21
363	In-situ deposition of gold nanoparticles onto polydopamine-decorated g-CN for highly efficient reduction of nitroaromatics in environmental water purification. <b>2019</b> , 534, 357-369	160
362	Facile fabrication of BiOCl/RGO/protonated g-C3N4 ternary nanocomposite as Z-scheme photocatalyst for tetracycline degradation and benzyl alcohol oxidation. <b>2019</b> , 54, 1275-1290	20
361	Construction of 2D heterojunction system with enhanced photocatalytic performance: Plasmonic Bi and reduced graphene oxide co-modified Bi5O7I with high-speed charge transfer channels. <b>2019</b> , 361, 245-258	97
360	The evaluation of super-capacitive performance of novel g-C3N4/PPy nanocomposite electrode material with sandwich-like structure. <b>2019</b> , 162, 369-377	38
359	Photo-removal of 2,2',4,4'-tetrabromodiphenyl ether in liquid medium by reduced graphene oxide bridged artificial Z-scheme system of Ag@Ag3PO4/g-C3N4. <b>2019</b> , 361, 373-386	74
358	Z-Scheme 2D/2D Heterojunction of Black Phosphorus/Monolayer Bi2WO6 Nanosheets with Enhanced Photocatalytic Activities. <b>2019</b> , 131, 2095-2099	50
357	Z-Scheme 2D/2D Heterojunction of Black Phosphorus/Monolayer Bi WO Nanosheets with Enhanced Photocatalytic Activities. <b>2019</b> , 58, 2073-2077	266
356	Two-dimensional materials as catalysts for solar fuels: hydrogen evolution reaction and CO2 reduction. <b>2019</b> , 7, 430-454	87
355	Integrating non-precious-metal cocatalyst Ni3N with g-C3N4 for enhanced photocatalytic H2 production in water under visible-light irradiation. <b>2019</b> , 40, 160-167	37
354	In situ derived Ni2P/Ni encapsulated in carbon/g-C3N4 hybrids from metal-organic frameworks/g-C3N4 for efficient photocatalytic hydrogen evolution. <b>2019</b> , 246, 72-81	90
353	Strengthened spatial charge separation over Z-scheme heterojunction photocatalyst for efficient photocatalytic H2 evolution. <b>2019</b> , 475, 453-461	13
352	Monolithic g-C3N4/reduced graphene oxide aerogel with in situ embedding of Pd nanoparticles for hydrogenation of CO2 to CH4. <b>2019</b> , 475, 953-960	50
351	Sub-5 nm Ultra-Fine FeP Nanodots as Efficient Co-Catalysts Modified Porous g-CN for Precious-Metal-Free Photocatalytic Hydrogen Evolution under Visible Light. <b>2019</b> , 11, 5651-5660	162
350	2D/2D Wg-C3N4/g-C3N4 composite as Adsorb and Shuttle-model photocatalyst for pollution mitigation. <b>2019</b> , 370, 117-126	21
349	Facilitating a high-performance photocatalyst for Suzuki reaction: Palladium nanoparticles immobilized on reduced graphene oxide-doped graphitic carbon nitride. <b>2019</b> , 33, e4623	6
348	Heterostructures Based on 2D Materials: A Versatile Platform for Efficient Catalysis. <b>2019</b> , 31, e1804828	78

347	Guiding Principles for Designing Highly Efficient Metal-Free Carbon Catalysts. <b>2019</b> , 31, e1805252	74
346	2D-Bi <sub>2</sub> MoO <sub>6</sub> /2D-g-C <sub>3</sub> N <sub>4</sub> nanosheet heterojunction composite: synthesis and enhanced visible light photocatalytic mechanism. <b>2019</b> , 52, 085302	7
345	Synthesis of Zr-based MOF nanocomposites for efficient visible-light photocatalytic degradation of contaminants. <b>2019</b> , 45, 1263-1279	20
344	Two-dimensional g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> nanocomposites as vertical Z-scheme heterojunction for improved photocatalytic water disinfection. <b>2019</b> , 335, 243-251	58
343	Recent Developments in Graphitic Carbon Nitride Based Hydrogels as Photocatalysts. <b>2019</b> , 12, 1794-1806	70
342	Mechanistic investigation in degradation mechanism of 5-Fluorouracil using graphitic carbon nitride. <b>2019</b> , 50, 311-321	21
341	Well-designed ZnV <sub>2</sub> O <sub>6</sub> /g-C <sub>3</sub> N <sub>4</sub> 2D/2D nanosheets heterojunction with faster charges separation via pCN as mediator towards enhanced photocatalytic reduction of CO <sub>2</sub> to fuels. <b>2019</b> , 242, 312-326	125
340	Electroless plating Ni-P cocatalyst decorated g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic water splitting for H <sub>2</sub> generation. <b>2019</b> , 466, 847-853	113
339	Synergistic improvement of Cr(VI) reduction and RhB degradation using RP/g-C <sub>3</sub> N <sub>4</sub> photocatalyst under visible light irradiation. <b>2020</b> , 13, 3836-3848	19
338	Inactivation of antibiotic resistance gene by ternary nanocomposites of carbon nitride, reduced graphene oxide and iron oxide under visible light. <b>2020</b> , 382, 122857	14
337	Nitrogen doped carbon ribbons modified g-C <sub>3</sub> N <sub>4</sub> for markedly enhanced photocatalytic H <sub>2</sub> -production in visible to near-infrared region. <b>2020</b> , 382, 122870	126
336	Visible-light responsive organic nano-heterostructured photocatalysts for environmental remediation and H <sub>2</sub> generation. <b>2020</b> , 38, 93-106	26
335	Nanostructured Carbon Nitrides for CO Capture and Conversion. <b>2020</b> , 32, e1904635	104
334	Efficient Z-scheme photocatalysts of ultrathin g-C <sub>3</sub> N <sub>4</sub> -wrapped Au/TiO <sub>2</sub> -nanocrystals for enhanced visible-light-driven conversion of CO <sub>2</sub> with H <sub>2</sub> O. <b>2020</b> , 263, 118314	140
333	Molecular engineering of polymeric carbon nitride based Donor-Acceptor conjugated copolymers for enhanced photocatalytic full water splitting. <b>2020</b> , 560, 743-754	41
332	An overview of graphene oxide supported semiconductors based photocatalysts: Properties, synthesis and photocatalytic applications. <b>2020</b> , 297, 111826	43
331	Research progress of graphene-based nanomaterials for the environmental remediation. <b>2020</b> , 31, 1462-1473	31
330	Ultrastable metal-free near-infrared-driven photocatalysts for H <sub>2</sub> production based on protonated 2D g-C <sub>3</sub> N <sub>4</sub> sensitized with Chlorin e6. <b>2020</b> , 260, 118137	45

329	Tailoring the surface properties of carbon nitride incorporated thin film nanocomposite membrane for forward osmosis desalination. <b>2020</b> , 33, 101005	20
328	Construction of 2D all-solid-state Z-scheme g-C3N4/BiOI/RGO hybrid structure immobilized on Ni foam for CO2 reduction and pollutant degradation. <b>2020</b> , 122, 110682	35
327	Facile synthesis of sulfur-doped polymeric carbon nitride/MoS2 face-to-face heterojunction for highly efficient photocatalytic interfacial charge separation. <b>2020</b> , 384, 123330	35
326	Facile synthesis of highly fluorescent free-standing films comprising graphitic carbon nitride (g-C3N4) nanolayers. <b>2020</b> , 44, 2644-2651	17
325	CN/rGO@BPQDs high-low junctions with stretching spatial charge separation ability for photocatalytic degradation and H2O2 production. <b>2020</b> , 266, 118602	165
324	Carbon-based photocatalysts for enhanced photocatalytic reduction of CO2 to solar fuels. <b>2020</b> , 4, 469-484	47
323	Construction of DyVO4/nitrogen deficient g-C3N4 composite for enhanced visible-light photocatalytic activity for tetracycline degradation. <b>2020</b> , 124, 110766	21
322	Photocatalytic H2 generation via CoP quantum-dot-modified g-C3N4 synthesized by electroless plating. <b>2020</b> , 41, 114-121	84
321	Graphitic Carbon Nitride-Based Low-Dimensional Heterostructures for Photocatalytic Applications. <b>2020</b> , 4, 1900435	40
320	Magnetically responsive SnFe2O4/g-C3N4 hybrid photocatalysts with remarkable visible-light-induced performance for degradation of environmentally hazardous substances and sustainable hydrogen production. <b>2020</b> , 506, 144939	15
319	Fabrication and Photodegradation Application of Isopropanol-Functionalized Poly (Triazine Imide). <b>2020</b> , 49, 1518-1526	2
318	Ternary Hybrid Aerogels of g-C3N4/Fe2O3 on a 3D Graphene Network: An Efficient and Recyclable Z-Scheme Photocatalyst. <b>2020</b> , 85, 169-175	11
317	Ternary g-C3N4/ZnNCN@ZIF-8 Hybrid Photocatalysts with Robust Interfacial Interactions and Enhanced CO2 Reduction Performance. <b>2020</b> , 4, 1900440	25
316	An enhanced non-noble perovskite-based oxygen electrocatalyst for efficient oxygen reduction and evolution reactions. <b>2020</b> , 282, 121119	12
315	Energy Band Engineering of Polymeric Carbon Nitride with Indium Doping for High Enhancement in Charge Separation and Photocatalytic Performance. <b>2020</b> , 3, 377-386	18
314	Band structure engineering and efficient injection rich-electrons into ultrathin g-C3N4 for boosting photocatalytic H2-production. <b>2020</b> , 505, 144564	16
313	Superior uniform carbon nanofibers@g-CN core-shell nanostructures embedded by Au nanoparticles for high-efficiency photocatalyst. <b>2020</b> , 388, 121759	8
312	Bio-inspired superior barrier self-healing coating: Self-assemble of graphene oxide and polydopamine-coated halloysite nanotubes for enhancing corrosion resistance of waterborne epoxy coating. <b>2020</b> , 139, 105402	18

311	Z-scheme g-C <sub>3</sub> N <sub>4</sub> /BiVO <sub>4</sub> photocatalysts with RGO as electron transport accelerator. <b>2020</b> , 31, 667-676	5
310	Enhancement of photocatalytic H <sub>2</sub> evolution from water splitting by construction of two dimensional gC <sub>3</sub> N <sub>4</sub> /NiAl layered double hydroxides. <b>2020</b> , 509, 144656	30
309	Interfaces of graphitic carbon nitride-based composite photocatalysts. <b>2020</b> , 7, 4754-4793	16
308	Monotonic strain sensing behavior of self-assembled carbon nanotubes/graphene silicone rubber composites under cyclic loading. <b>2020</b> , 200, 108474	21
307	Multidimensional (0D-3D) functional nanocarbon: Promising material to strengthen the photocatalytic activity of graphitic carbon nitride. <b>2020</b> ,	15
306	Photocatalytic carbon dioxide reforming of methane as an alternative approach for solar fuel production-a review. <b>2020</b> , 134, 110363	17
305	Emerging Chemical Functionalization of g-CN: Covalent/Noncovalent Modifications and Applications. <b>2020</b> , 14, 12390-12469	88
304	Graphene/graphitic carbon nitride-based ternary nanohybrids: Synthesis methods, properties, and applications for photocatalytic hydrogen production. <b>2020</b> , 24, 100200	38
303	Graphitic carbon nitride-graphene nanoplates; Application in the sensitive electrochemical detection of nospapine. <b>2020</b> , 268, 116489	2
302	Engineering Heterostructured Nanocatalysts for CO Transformation Reactions: Advances and Perspectives. <b>2020</b> , 13, 6090-6123	6
301	Enhanced photocatalytic performance of protonated graphite carbon nitride/molybdenum sulphide heterojunction for degradation of methyl orange dye. <b>2020</b> , 1-12	5
300	Electric and Photocatalytic Properties of Graphene Oxide Depending on the Degree of Its Reduction. <b>2020</b> , 10,	2
299	Biomimetic synthesis of 2D/2D mixed graphitic carbon nitride /carbonized polydopamine nanosheets with excellent photocatalytic performance. <b>2020</b> , 256, 123621	8
298	Surface decoration of MnWO <sub>4</sub> nanoparticles with g-C <sub>3</sub> N <sub>4</sub> nanosheets to build hetero-structure and its structural, optical and enhanced visible light photocatalytic activity. <b>2020</b> , 31, 14823-14837	2
297	Novel Au@C modified g-C <sub>3</sub> N <sub>4</sub> (Au@C/g-C <sub>3</sub> N <sub>4</sub> ) as efficient visible-light photocatalyst for toxic organic pollutant degradation: Synthesis, performance and mechanism insight. <b>2020</b> , 252, 117485	19
296	Outstanding photocatalytic activity of CoFe <sub>2</sub> O <sub>4</sub> /rGO nanocomposite in degradation of organic dyes. <b>2020</b> , 108, 110193	28
295	Vertical graphene nano-antennas for solar-to-hydrogen energy conversion. <b>2020</b> , 208, 379-387	7
294	Design of Three-Dimensional Hollow-Sphere Architecture of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene with Graphitic Carbon Nitride Nanoshells for Efficient Photocatalytic Hydrogen Evolution. <b>2020</b> , 3, 9226-9233	32

293	Direct growth of uniform carbon nitride layers with extended optical absorption towards efficient water-splitting photoanodes. <b>2020</b> , 11, 4701	37
292	Recent Progress, Challenges, and Prospects in Two-Dimensional Photo-Catalyst Materials and Environmental Remediation. <b>2020</b> , 12, 167	35
291	Understanding the enhanced catalytic activity of bimetallic AuCu/TiO <sub>2</sub> in CO <sub>2</sub> adsorption and activation: a density functional theory study. <b>2020</b> , 44, 14662-14669	4
290	Construction of rGO Supported Integrative NiFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> Nanocomposite: Role of Charge Transfer for Boosting the OH <sup>•</sup> Radical Production to Enhance the Photo-Fenton Degradation. <b>2020</b> , 5, 9765-9775	8
289	Dual enhancement of capturing photogenerated electrons by loading CoP nanoparticles on N-deficient graphitic carbon nitride for efficient photocatalytic degradation of tetracycline under visible light. <b>2020</b> , 246, 116930	52
288	Ultrafast and large-scale synthesis of Co <sub>3</sub> O <sub>4</sub> quantum dots-C <sub>3</sub> N <sub>4</sub> /rGO as an excellent ORR electrocatalyst via a controllable deflagration strategy. <b>2020</b> , 525, 146624	6
287	Highly Efficient Polymeric Carbon Nitride Photoanode with Excellent Electron Diffusion Length and Hole Extraction Properties. <b>2020</b> , 20, 4618-4624	34
286	3D anisotropic photocatalytic architectures as bioactive nerve guidance conduits for peripheral neural regeneration. <b>2020</b> , 253, 120108	44
285	Graphitic nitride-catalyzed advanced oxidation processes (AOPs) for landfill leachate treatment: A mini review. <b>2020</b> , 139, 230-240	27
284	Photogenerated charge behavior of BiOI/g-C <sub>3</sub> N <sub>4</sub> photocatalyst in photoreduction of Cr (VI): A novel understanding for high-performance. <b>2020</b> , 252, 123194	21
283	Synthesis of nanosized Ag-modified 2D/2D hydroxylated g-C <sub>3</sub> N <sub>4</sub> /TS-1 Z-scheme nanocomposites for efficient photocatalytic CO <sub>2</sub> reduction. <b>2020</b> , 130, 110926	20
282	2D/2D Heterostructured Photocatalysts: An Emerging Platform for Artificial Photosynthesis. <b>2020</b> , 4, 2000132	70
281	Bioinspired Construction of g-C <sub>3</sub> N <sub>4</sub> Nanolayers on a Carbonized Polydopamine Nanosphere Surface with Excellent Photocatalytic Performance. <b>2020</b> , 59, 12389-12398	7
280	rGO supported self-assembly of 2D nano sheet of (g-CN) into rod-like nano structure and its application in sonophotocatalytic degradation of an antibiotic. <b>2020</b> , 68, 105218	22
279	Porous Two-Dimensional Materials for Photocatalytic and Electrocatalytic Applications. <b>2020</b> , 2, 1377-1413	88
278	Engineering the Photocatalytic Behaviors of g/C <sub>3</sub> N <sub>4</sub> -Based Metal-Free Materials for Degradation of a Representative Antibiotic. <b>2020</b> , 30, 2002353	58
277	Rational Design of Carbon-Based 2D Nanostructures for Enhanced Photocatalytic CO Reduction: A Dimensionality Perspective. <b>2020</b> , 26, 9710-9748	83
276	Encapsulating CuO quantum dots in MIL-125(Ti) coupled with g-C <sub>3</sub> N <sub>4</sub> for efficient photocatalytic CO <sub>2</sub> reduction. <b>2020</b> , 399, 125782	40

275	Hybrid 2D/3D g-C <sub>3</sub> N <sub>4</sub> /BiVO <sub>4</sub> photocatalyst decorated with RGO for boosted photoelectrocatalytic hydrogen production from natural lake water and photocatalytic degradation of antibiotics. <b>2020</b> , 314, 113530	17
274	Nanotechnology for Energy and Environmental Engineering. <b>2020</b> ,	3
273	Reduced graphene-decorated covalent organic framework as a novel coating for solid-phase microextraction of phthalate esters coupled to gas chromatography-mass spectrometry. <b>2020</b> , 187, 256	11
272	Mo-doped carbon nitride homojunction to promote oxygen activation for enhanced photocatalytic performance. <b>2020</b> , 401, 126028	10
271	Construction of a push-pull system in g-C <sub>3</sub> N <sub>4</sub> for efficient photocatalytic hydrogen evolution under visible light. <b>2020</b> , 8, 13299-13310	18
270	Facile synthesis of graphitic carbon nitride via copolymerization of melamine and TCNQ for photocatalytic hydrogen evolution. <b>2020</b> , 31, 475406	2
269	All-solid-state Z-scheme photocatalysts of g-C <sub>3</sub> N <sub>4</sub> /Pt/macroporous-(TiO <sub>2</sub> @carbon) for selective boosting visible-light-driven conversion of CO <sub>2</sub> to CH <sub>4</sub> . <b>2020</b> , 389, 440-449	48
268	Construction of novel n-type semiconductor anchor on 2D honey comb like FeNbO <sub>4</sub> /RGO for visible light drive photocatalytic degradation of norfloxacin. <b>2020</b> , 400, 112712	10
267	Facile synthesis and photoelectrochemical properties of novel TiN/C <sub>3</sub> N <sub>4</sub> /CdS nanotube core/shell arrays. <b>2020</b> , 41, 1645-1653	6
266	Photocatalytic activity enhanced via surface hybridization. <b>2020</b> , 2, 308-349	25
265	Novel torus shaped g-C <sub>3</sub> N <sub>4</sub> photocatalysts. <b>2020</b> , 268, 118733	31
264	Recent advances in visible-light-driven conversion of CO <sub>2</sub> by photocatalysts into fuels or value-added chemicals. <b>2020</b> , 3, 46-59	33
263	Powerful combination of 2D g-C <sub>3</sub> N <sub>4</sub> and 2D nanomaterials for photocatalysis: Recent advances. <b>2020</b> , 390, 124475	98
262	Hydrophilic hierarchical carbon with TiO <sub>2</sub> nanofiber membrane for high separation efficiency of dye and oil-water emulsion. <b>2020</b> , 241, 116709	50
261	The nonmetal modulation of composition and morphology of g-C <sub>3</sub> N <sub>4</sub> -based photocatalysts. <b>2020</b> , 269, 118828	112
260	Preparation of glycine mediated graphene oxide/g-C <sub>3</sub> N <sub>4</sub> lamellar membranes for nanofiltration. <b>2020</b> , 601, 117948	29
259	Fabrication of graphene oxide wrapped Ti/CoO nanowire photoanode and its superior photoelectrocatalytic performance. <b>2020</b> , 31, 225303	2
258	Mesoporous carbon/graphitic carbon nitride spheres for photocatalytic H <sub>2</sub> evolution under solar light irradiation. <b>2020</b> , 45, 8618-8628	16

257	A multifunctional thermal management paper based on functionalized graphene oxide nanosheets decorated with nanodiamond. <b>2020</b> , 161, 132-145	41
256	Construction of Z-scheme heterojunction of PANI-Ag-CN sandwich structure with efficient photocatalytic hydrogen evolution. <b>2020</b> , 509, 145296	6
255	Fe <sub>3</sub> O <sub>4</sub> nanoparticles functionalized GO/g-C <sub>3</sub> N <sub>4</sub> nanocomposite: An efficient magnetic nanoadsorbent for adsorptive removal of organic pollutants. <b>2020</b> , 244, 122710	35
254	Two-dimensional materials for energy conversion and storage. <b>2020</b> , 111, 100637	73
253	Construction of 2D/2D/2D rGO/p-C <sub>3</sub> N <sub>4</sub> /Cu <sub>3</sub> Mo <sub>2</sub> O <sub>9</sub> heterostructure as an efficient catalytic platform for cascade photo-degradation and photoelectrochemical activity. <b>2020</b> , 511, 145469	17
252	Boosting near-infrared-driven photocatalytic H <sub>2</sub> evolution using protoporphyrin-sensitized g-C <sub>3</sub> N <sub>4</sub> . <b>2020</b> , 396, 112517	15
251	Free-standing composite films of multiple 2D nanosheets: Synergetic photothermocatalysis/photocatalysis for efficient removal of formaldehyde under ambient condition. <b>2020</b> , 394, 125014	32
250	Hierarchical Architected Ternary Nanostructures Photocatalysts with In(OH) <sub>3</sub> Nanocube on ZnIn <sub>2</sub> S <sub>4</sub> /NiS Nanosheets for Photocatalytic Hydrogen Evolution. <b>2020</b> , 4, 2000027	21
249	2D/2D heterostructured photocatalyst: Rational design for energy and environmental applications. <b>2020</b> , 63, 2119-2152	33
248	Multi-interface Mn <sub>3</sub> O <sub>4</sub> @ZnO/TiO <sub>2</sub> with controllable charge transfer routes for highly selective denitrification under ultrasonic-assisted visible light photocatalysis. <b>2020</b> , 394, 124997	17
247	Embedding few-layer TiCT into alkalized g-CN nanosheets for efficient photocatalytic degradation. <b>2020</b> , 571, 297-306	34
246	A review on TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> visible-light- responsive photocatalysts for sustainable energy generation and environmental remediation. <b>2020</b> , 8, 103896	97
245	A review of recent progress in gas phase CO <sub>2</sub> reduction and suggestions on future advancement. <b>2020</b> , 16, 100264	15
244	Metal-free Z-scheme 2D/2D VdW heterojunction for high-efficiency and durable photocatalytic H <sub>2</sub> production. <b>2020</b> , 395, 125150	98
243	Novel g-CN/Fe-ZnO/RGO nanocomposites with boosting visible light photocatalytic activity for MB, Cr (VI), and outstanding catalytic activity toward para-nitrophenol reduction. <b>2020</b> , 31, 325603	22
242	In situ construction of protonated g-C <sub>3</sub> N <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> MXene Schottky heterojunctions for efficient photocatalytic hydrogen production. <b>2021</b> , 42, 107-114	68
241	Transparent floatable magnetic alginate sphere used as photocatalysts carrier for improving photocatalytic efficiency and recycling convenience. <b>2021</b> , 254, 117281	11
240	DFT-Guided Design and Fabrication of Carbon-Nitride-Based Materials for Energy Storage Devices: A Review. <b>2020</b> , 13, 13	27



- 239 Graphitic Carbon Nitride-Based Z-Scheme Structure for Photocatalytic CO<sub>2</sub> Reduction. **2021**, 35, 7-24 42
- 238 Superior photoelectrocatalytic performance of ternary structural BiVO<sub>4</sub>/GQD/g-CN heterojunction. **2021**, 586, 785-796 19
- 237 Investigations on effect of graphitic carbon nitride loading on the properties and electrochemical performance of g-C<sub>3</sub>N<sub>4</sub>/TiO<sub>2</sub> nanocomposites for energy storage device applications. **2021**, 121, 105328 17
- 236 Designed synthesis of a porous ultrathin 2D CN@graphene@CN sandwich structure for superior photocatalytic hydrogen evolution under visible light. **2021**, 404, 126455 15
- 235 Nanoconfined fusion of g-C<sub>3</sub>N<sub>4</sub> within edge-rich vertically oriented graphene hierarchical networks for high-performance photocatalytic hydrogen evolution utilizing superhydrophilic and superaerophobic responses in seawater. **2021**, 280, 119461 14
- 234 One-pot thermal polymerization route to prepare N-deficient modified g-C<sub>3</sub>N<sub>4</sub> for the degradation of tetracycline by the synergistic effect of photocatalysis and persulfate-based advanced oxidation process. **2021**, 406, 126844 96
- 233 Future roadmap on nonmetal-based 2D ultrathin nanomaterials for photocatalysis. **2021**, 406, 126780 21
- 232 In situ fabrication of ultrathin-g-C<sub>3</sub>N<sub>4</sub>/AgI heterojunctions with improved catalytic performance for photodegrading rhodamine B solution. **2021**, 538, 148132 19
- 231 Recent Progress on Carbon Nitride and Its Hybrid Photocatalysts for CO<sub>2</sub> Reduction. **2021**, 5, 2000478 16
- 230 Carbon-Graphitic Carbon Nitride Hybrids for Heterogeneous Photocatalysis. **2021**, 17, e2005231 37
- 229 CO<sub>2</sub> selectivity of flower-like MoS<sub>2</sub> grown on TiO<sub>2</sub> nanofibers coated with acetic acid-treated graphitic carbon nitride. **2021**, 221, 110890 6
- 228 Proton-Functionalized Graphitic Carbon Nitride for Efficient Metal-Free Destruction of Escherichia coli under Low-Power Light Irradiation. **2021**, 27, 3085-3090 4
- 227 Metal-organic framework-based photocatalysts for carbon dioxide reduction to methanol: A review on progress and application. **2021**, 43, 101374 17
- 226 Functionally integrated g-C<sub>3</sub>N<sub>4</sub>@wood-derived carbon with an orderly interconnected porous structure. **2021**, 540, 148440 11
- 225 Facile synthesis of GO as middle carrier modified flower-like BiOBr and C<sub>3</sub>N<sub>4</sub> nanosheets for simultaneous treatment of chromium(VI) and tetracycline. **2021**, 32, 2187-2191 10
- 224 Multifunctional 3D GO/g-C<sub>3</sub>N<sub>4</sub>/TiO<sub>2</sub> foam for oil-water separation and dye adsorption. **2021**, 541, 148638 14
- 223 Plasmon induced hot electron generation in two dimensional carbonaceous nanosheets decorated with Au nanostars: enhanced photocatalytic activity under visible light. **2021**, 5, 1448-1467 27
- 222 High visible light photocatalytic activities obtained by integrating g-C<sub>3</sub>N<sub>4</sub> with ferroelectric PbTiO<sub>3</sub>. **2021**, 74, 128-135 21

221	Facial synthesis of two-dimensional In <sub>2</sub> S <sub>3</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> heterostructures with boosted photoactivity for the hydrogenation of nitroaromatic compounds. <b>2021</b> , 5, 6883-6890	1
220	Defective Graphitic Carbon Nitride Modified Separators with Efficient Polysulfide Traps and Catalytic Sites for Fast and Reliable Sulfur Electrochemistry. <b>2021</b> , 31, 2010455	25
219	Recent progress on strategies for the preparation of 2D/2D MXene/g-C <sub>3</sub> N <sub>4</sub> nanocomposites for photocatalytic energy and environmental applications. <b>2021</b> , 11, 1222-1248	29
218	Photodegradation of Organic Pollutants Via Carbon Nitride/Graphene-Oxide Nanocomposite Loaded on Polyacrylic Acid Hydrogel with Free Separation. <b>2021</b> , 25, 159-167	2
217	Study on Photoelectrochemical Properties of Colorful Carbon Nitrides Synthesized in Liquid-Phase. <b>2021</b> , 79, 506	2
216	Nanomaterials for Photocatalytic Energy Conversion. <b>2021</b> , 43-84	
215	Graphitic carbon nitride-based metal-free photocatalyst. <b>2021</b> , 449-484	0
214	Engineering graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) for catalytic reduction of CO <sub>2</sub> to fuels and chemicals: strategy and mechanism. <b>2021</b> , 23, 5394-5428	35
213	Artificial photosynthesis system for the reduction of carbon dioxide to value-added fuels. <b>2021</b> , 917-938	
212	MOF-Based Hybrids for Solar Fuel Production. <b>2021</b> , 11, 2003052	25
211	Visible-Light-Responsive Heterostructured Nanophotocatalysts for Organic Pollutants Decomposition. <b>2021</b> , 35-84	
210	Recent advances in g-C <sub>3</sub> N <sub>4</sub> -based photocatalysts for reduction of CO <sub>2</sub> . <b>2021</b> , 675, 012181	
209	Fabricating 2D/2D/2D heterojunction of graphene oxide mediated g-C <sub>3</sub> N <sub>4</sub> and ZnV <sub>2</sub> O <sub>6</sub> composite with kinetic modelling for photocatalytic CO <sub>2</sub> reduction to fuels under UV and visible light. <b>2021</b> , 56, 9985-10007	6
208	Precursor Controlled Strategy for N, S, F-Reduced Graphene Oxide (RGO) Preparation and Its Electro-Degradation Toward Bisphenol A. <b>2021</b> , 151, 3170-3188	1
207	Enhanced solar-to-chemical energy conversion of graphitic carbon nitride by two-dimensional cocatalysts. <b>2021</b> , 3, 100051	45
206	Boron-doped nitrogen-deficient carbon nitride-based Z-scheme heterostructures for photocatalytic overall water splitting. <b>2021</b> , 6, 388-397	219
205	Development of versatile CdMoO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposite for enhanced photoelectrochemical oxygen evolution reaction and photocatalytic dye degradation applications. <b>2021</b> , 19, 100392	19
204	Self-assembly synthesis of phosphorus-doped tubular g-C <sub>3</sub> N <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> MXene Schottky junction for boosting photocatalytic hydrogen evolution. <b>2021</b> ,	6

203	Low-Temperature CO <sub>2</sub> Thermal Reduction to Graphitic and Diamond-like Carbons Using Perovskite-Type Titanium Nanoceramics by Quasi-High-Pressure Reactions. <b>2021</b> , 9, 3860-3873	2
202	Embedding 1D WO <sub>3</sub> Nanotubes into 2D Ultrathin Porous g-C <sub>3</sub> N <sub>4</sub> to Improve the Stability and Efficiency of Photocatalytic Hydrogen Production. <b>2021</b> , 4, 4365-4375	5
201	Thermal coupled photocatalysis to enhance CO <sub>2</sub> reduction activities on Ag loaded g-C <sub>3</sub> N <sub>4</sub> catalysts. <b>2021</b> , 23, 101006	6
200	Fullerene-Intercalated Graphitic Carbon Nitride as a High-Performance Anode Material for Sodium-Ion Batteries.	2
199	Effect of amination of titanium dioxide in the TiO <sub>2</sub> /rGO composite on the efficient photocatalytic removal of gaseous formaldehyde at room temperature. <b>2021</b> , 114, 110913	5
198	Molecular Triazine/Imidazole Junctions Promoting Exciton Dissociation for Overall Water Splitting with Visible Light. <b>2021</b> , 125, 9818-9826	21
197	Nanostructure rod-like TiO <sub>2</sub> -reduced graphene oxide composite aerogels for highly-efficient visible-light photocatalytic CO <sub>2</sub> reduction. <b>2021</b> , 861, 158598	9
196	An Overview of the Recent Progress in Polymeric Carbon Nitride Based Photocatalysis. <b>2021</b> , 21, 1811-1844	15
195	Point-Defect Engineering: Leveraging Imperfections in Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) Photocatalysts toward Artificial Photosynthesis. <b>2021</b> , 17, e2006851	49
194	Light-storing assisted photocatalytic composite g-C <sub>3</sub> N <sub>4</sub> /Sr <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :(Eu,Dy) with sustained activity. <b>2021</b> , 411, 113202	5
193	Synthesis and characterization of conductive polymer coated graphitic carbon nitride embedded sulfonated poly (ether ether ketone) membranes for direct methanol fuel cell applications. <b>2021</b> , 45, 16649-16666	2
192	Anchoring of graphitic carbon nitride on reduced graphene sheets by UV pulsed laser irradiation for augmented photoelectrochemical water splitting. <b>2021</b> , 45, 15936-15947	0
191	Double S-scheme AgBr heterojunction co-modified with g-C <sub>3</sub> N <sub>4</sub> and black phosphorus nanosheets greatly improves the photocatalytic activity and stability. <b>2021</b> , 329, 115540	9
190	Ternary hybrid nanocomposites of polypyrrole nanotubes with 2D self-assembled heterostructures of protonated g-C <sub>3</sub> N <sub>4</sub> -rGO as supercapacitor electrodes. <b>2021</b> , 27, 3153-3168	1
189	Directing photocatalytic pathway to exceedingly high antibacterial activity in water by functionalizing holey ultrathin nanosheets of graphitic carbon nitride. <b>2021</b> , 198, 117125	15
188	Photocatalytic conversion of CO to fuels with water by B-doped graphene/g-C <sub>3</sub> N <sub>4</sub> heterostructure. <b>2021</b> , 66, 1186-1193	6
187	A Facile One Step Synthesis of MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> Photocatalyst with Enhanced Visible Light Photocatalytic Hydrogen Production. 1	3
186	Engineering 2D multi-hetero-interface in the well-designed nanosheet composite photocatalyst with broad electron-transfer channels for highly-efficient solar-to-fuels conversion. <b>2021</b> , 286, 119944	10

185	Nitrogen-Doped Reduced Graphene Oxide Covalently Coupled with Graphitic Carbon Nitride/Sulfur-Doped Graphitic Carbon Nitride Heterojunction Nanocatalysts for Photoreduction and Degradation of 4-Nitrophenol. <b>2021</b> , 4, 7145-7161	6
184	Graphitic carbon nitride-based materials for photocatalytic antibacterial application. <b>2021</b> , 145, 100610	55
183	Carbon nitride assisted 2D conductive metal-organic frameworks composite photocatalyst for efficient visible light-driven H <sub>2</sub> O <sub>2</sub> production. <b>2021</b> , 289, 120035	25
182	N-Fe-Cu co-doped carbon materials for efficient electrocatalytic water splitting. <b>2021</b> , 299, 122179	3
181	Boosting photocatalytic degradation of tetracycline under visible light over hierarchical carbon nitride microrods with carbon vacancies. <b>2021</b> , 413, 125376	27
180	Direct Electrochemical Storage of Solar Energy in C-Rich Polymeric Carbon Nitride Cell. 2100111	1
179	In situ self-assembled S-scheme BiOBr/pCN hybrid with enhanced photocatalytic activity for organic pollutant degradation and CO <sub>2</sub> reduction. <b>2021</b> , 556, 149828	15
178	Conceptually Novel Few-Layer Black Phosphorus/Supramolecular Coalition: Noncovalent Functionalization Toward Fire Safety Enhancement. <b>2021</b> , 60, 12579-12591	1
177	The reduction of CO <sub>2</sub> / bicarbonate to ethanol driven by Bio-electrochemical system using reduced graphene oxide modified nickel foam. <b>2021</b> , 119437	
176	Developing N-Rich Carbon from C <sub>3</sub> N <sub>4</sub> -Polydopamine Composites for Efficient Oxygen Reduction Reaction. <b>2021</b> , 8, 3954	
175	Indirect Z-scheme heterojunction of NH <sub>2</sub> -MIL-125(Ti) MOF/g-C <sub>3</sub> N <sub>4</sub> nanocomposite with RGO solid electron mediator for efficient photocatalytic CO <sub>2</sub> reduction to CO and CH <sub>4</sub> . <b>2021</b> , 9, 105600	21
174	The cooperation of photothermal conversion, photocatalysis and sulfate radical-based advanced oxidation process on few-layered graphite modified graphitic carbon nitride. <b>2021</b> , 417, 127993	4
173	Construction of mesoporous C <sub>3</sub> N <sub>4</sub> /rGO composite with enhanced visible light photocatalytic activity. <b>2021</b> , 241, 167159	4
172	Construction of NiCo <sub>2</sub> O <sub>4</sub> /O-g-C <sub>3</sub> N <sub>4</sub> Nanocomposites: A Battery-Type Electrode Material for High-Performance Supercapacitor Application.	5
171	Novel carbon nitride@polydopamine/molybdenum disulfide nanoflake retardant improves fire performance of composite coatings. <b>2021</b> , 127575	6
170	Efficient ultra-trace electrochemical detection of Cd <sup>2+</sup> , Pb <sup>2+</sup> and Hg <sup>2+</sup> based on hierarchical porous S-doped C <sub>3</sub> N <sub>4</sub> tube bundles/graphene nanosheets composite. <b>2021</b> , 420, 130317	13
169	Construction of Electrostatic Self-Assembled 2D/2D CdInS/g-CN Heterojunctions for Efficient Visible-Light-Responsive Molecular Oxygen Activation. <b>2021</b> , 11,	2
168	Photocatalytic CO <sub>2</sub> reduction to CO and CH <sub>4</sub> using g-C <sub>3</sub> N <sub>4</sub> /RGO on titania nanotube arrays (TNTAs). <b>2021</b> , 56, 18989	0

167	In-situ synthesis of CN@La(OH) <sub>3</sub> nanocomposite for improved the charge separation and enhanced the photocatalytic activity towards Cr(VI) reduction under visible light. <b>2021</b> , 7, 100048	3
166	Photocatalytic CO <sub>2</sub> Reduction. <b>2022</b> , 605-646	
165	Photocatalytic water splitting hydrogen production via environmental benign carbon based nanomaterials. <b>2021</b> , 46, 33696-33717	27
164	Nanoporous Ni <sub>0.85</sub> Se Electrocatalyst Anchored on rGO for Hydrazine Oxidation.	4
163	Bioinspired construction of carbonized poly(tannic acid)/g-C <sub>3</sub> N <sub>4</sub> nanorod photocatalysts for organics degradation. <b>2021</b> , 562, 150256	6
162	Amphiphilic engineering of reduced graphene oxides using a carbon nitride coating for superior removal of organic pollutants from wastewater. <b>2021</b> , 184, 479-491	0
161	Life cycle assessment of environmental impacts associated with oxidative desulfurization of diesel fuels catalyzed by metal-free reduced graphene oxide. <b>2021</b> , 288, 117677	6
160	Hybrid of cerium dioxide nanoparticles/reduced graphene oxide as an electrode material for supercapacitor applications. <b>2021</b> , 159, 110284	3
159	Highly efficient clean water production: Reduced graphene oxide/ graphitic carbon nitride/wood. <b>2021</b> , 279, 119788	18
158	Photocatalytic carbon dioxide reduction: Exploring the role of ultrathin 2D graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ). <b>2021</b> , 425, 131402	15
157	Facile fabrication of well-designed 2D/2D porous g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> nanocomposite for photocatalytic methane reforming (DRM) with CO <sub>2</sub> towards enhanced syngas production under visible light. <b>2021</b> , 305, 121558	8
156	Photocatalytic conversion of CO <sub>2</sub> into valuable products using emerging two-dimensional graphene-based nanomaterials: A step towards sustainability. <b>2021</b> , 425, 131401	4
155	Selective graphene-like metal-free 2D nanomaterials and their composites for photocatalysis. <b>2021</b> , 284, 131254	9
154	Synergistic poly(lactic acid) photoreforming and H <sub>2</sub> generation over ternary NiCoP/reduced graphene oxide/g-CN composite. <b>2022</b> , 286, 131905	1
153	2D/2D g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> with exposed (001) facets Z-Scheme composites accelerating separation of interfacial charge and visible photocatalytic degradation of Rhodamine B. <b>2022</b> , 160, 110339	6
152	A nanocubicle-like 3D adsorbent fabricated by in situ growth of 2D heterostructures for removal of aromatic contaminants in water. <b>2022</b> , 423, 127004	13
151	Recent advances in g-C <sub>3</sub> N <sub>4</sub> -based photocatalysts incorporated by MXenes and their derivatives. <b>2021</b> , 9, 13722-13745	17
150	Recent advancements and opportunities of decorated graphitic carbon nitride toward solar fuel production and beyond. <b>2021</b> , 5, 4457-4511	8

- 149 Interface chemistry of two-dimensional heterostructures - fundamentals to applications. **2021**, 50, 4684-4729 51
- 148 Pd supported on graphene modified g-C<sub>3</sub>N<sub>4</sub> hybrid: a highly efficient catalyst for hydrogenation of nitroarenes. **2020**, 34, e5684 3
- 147 Designing Novel Photocatalysts for Disinfection of Multidrug-Resistant Waterborne Bacteria. **2020**, 441-476 1
- 146 Surface modification to control the secondary pollution of photocatalytic nitric oxide removal over monolithic protonated g-CN/graphene oxide aerogel. **2020**, 397, 122822 16
- 145 Stepping toward the carbon circular economy (CCE): Integration of solar chemistry and biosystems for an effective CO<sub>2</sub> conversion into added value chemicals and fuels. **2021**, 78, 289-351 3
- 144 g-C<sub>3</sub>N<sub>4</sub>/CoNiFe-LDH Z-scheme heterojunction for efficient CO<sub>2</sub> photoreduction and MB dye photodegradation. **2021**, 11, 7727-7739 3
- 143 Steering Hole Transfer from the Light Absorber to Oxygen Evolution Sites for Photocatalytic Overall Water Splitting. 2101158 0
- 142 Organic semiconductor nanostructures: Optoelectronic properties, Modification strategy, and Photocatalytic Applications. **2021**, 1
- 141 Gradient Zn-Doped Poly Heptazine Imides Integrated with a van der Waals Homo Junction Boosting Visible Light-Driven Water Oxidation Activities. 13463-13471 10
- 140 Recent developments in layered double hydroxide structures with their role in promoting photocatalytic hydrogen production: A comprehensive review. 1
- 139 2D/2D Heterojunction systems for the removal of organic pollutants: A review. **2021**, 297, 102540 10
- 138 Peroxymonosulfate activation on carbon nano-onions modified graphitic carbon nitride via light-tuning radical and nonradical pathways. **2021**, 9, 106592 0
- 137 Nanoarchitectonics of the Supercapacitor Performance of LaNiO<sub>3</sub> Perovskite on the Graphitic-C<sub>3</sub>N<sub>4</sub> Doped Reduced Graphene Oxide Hydrogel. **2021**, 127787 3
- 136 Samarium tungstate anchored on graphitic carbon nitride composite: A novel electrocatalyst for the ultra-selective electrocatalytic detection of 8-hydroxy-5-nitroquinoline in river water and biological samples. **2021**, 632, 127820 1
- 135 Nanostructure Engineering of Graphitic Carbon Nitride for Electrochemical Applications. **2021**, 4
- 134 Mass production of a single-atom cobalt photocatalyst for high-performance visible-light photocatalytic CO<sub>2</sub> reduction. 3
- 133 2D/2D Heterostructure of Metal-Free Ultrathin Graphdiyne/Carbon Nitride Nanosheets for Enhanced Photocatalytic Reduction of Carbon Dioxide with Water. 0
- 132 Two-dimensional metal carbides for electro- and photocatalytic CO<sub>2</sub> reduction: Review. **2021**, 55, 101814 2

131	Preparation of g-C <sub>3</sub> N <sub>4</sub> (Ag)/Gr/TiO <sub>2</sub> Z-scheme photocatalyst with enhanced reduction property and the efficient degradation of rhodamine B. <b>2021</b> , 898, 162759	2
130	Decoration of g-C <sub>3</sub> N <sub>4</sub> by inorganic cluster of polyoxometalate through organic linker strategy for enhancing photoelectrocatalytic performance under visible light. <b>2021</b> , 47, 3001-3001	0
129	Photocatalytic Degradation of Composites with Magnesium Aluminum Hydrotalcite Derived Metal Oxides and g-C <sub>3</sub> N <sub>4</sub> . 1	1
128	Mixed-matrix membranes consisting of Pebax and novel nitrogen-doped porous carbons for CO <sub>2</sub> separation. <b>2022</b> , 644, 120182	1
127	Eco-friendly synthesis of g-carbon nitride coated graphene nanocomposites for superior visible photodegradation of hydroquinone: Physicochemical mechanisms and photo-Fenton effect. <b>2022</b> , 426, 113734	1
126	Preparation and Electrochemical Performance of Sulfur-Loaded Frame g-C <sub>3</sub> N <sub>4</sub> /CNTs for High Performance Lithium-Sulfur Battery by Dissolution-Precipitation Method.	
125	Graphitic carbon nitride for photocatalytic CO <sub>2</sub> reduction. <b>2022</b> , 69-96	
124	Superior ultra-thin nanoporous g-C <sub>3</sub> N <sub>4</sub> photocatalyst embedded with S quantum dots: a non-metal Z-scheme visible-light composite. <b>2022</b> , 57, 274-284	1
123	Preparation of g-C <sub>3</sub> N <sub>4</sub> Nanosheet/WO <sub>3</sub> /Graphene Oxide Ternary Nanocomposite Z-scheme Photocatalyst with Enhanced Visible Light Photocatalytic Activity. 1	
122	Graphitic carbon nitride/antimonene van der Waals heterostructure with enhanced photocatalytic CO <sub>2</sub> reduction activity. <b>2022</b> , 116, 192-198	6
121	Self-assembly of Anisotropic Colloids in Solutions. <b>2022</b> , 37-85	
120	Composites of Co-Doped Graphitic C <sub>3</sub> N <sub>4</sub> Nanosheets and TiO <sub>2</sub> Nanoparticles for Electrorheological Fluid Applications. <b>2022</b> , 5, 1003-1015	2
119	Solar-powered chemistry: Engineering low-dimensional carbon nitride-based nanostructures for selective CO <sub>2</sub> conversion to C <sub>1</sub> ?C <sub>2</sub> products. <b>2022</b> , 4,	4
118	Enhanced carriers separation in novel in-plane amorphous carbon/g-CN nanosheets for photocatalytic environment remediation.. <b>2022</b> , 294, 133581	0
117	Chapter 1. Recent Developments and Perspectives on Solar-driven Fine Chemicals Synthesis: From the Reaction System to 2D Photocatalysts. <b>2022</b> , 1-64	
116	Bandgap engineered g-C <sub>3</sub> N <sub>4</sub> and its graphene composites for stable photoreduction of CO <sub>2</sub> to methanol. <b>2022</b> ,	1
115	Recent Advancement of the Current Aspects of g-C <sub>3</sub> N <sub>4</sub> for its Photocatalytic Applications in Sustainable Energy System.. <b>2022</b> , e202100310	3
114	RuO <sub>2</sub> nanoparticles-accommodated graphitic carbon nitride for significant enhancement in photocatalytic oxidation of trichloroethylene. <b>2022</b> , 125, 112086	0

113	In-situ electrodeposition synthesis of Z-scheme rGO/g-CN/TNAs photoelectrodes and its degradation mechanism for oxytetracycline in dual-chamber photoelectrocatalytic system.. <b>2022</b> , 308, 114615	1
112	Facile preparation of Fe-C3N4 heterojunction for enhanced pollutant degradation in Fenton-like process. <b>2022</b> , 46, 102628	1
111	Visible-light-responsive reduced graphene oxide/g-CN/TiO composite nanocoating for photoelectric stimulation of neuronal and osteoblastic differentiation.. <b>2022</b> , 12, 8878-8888	0
110	Metal-organic frameworks for fuel cell technologies. <b>2022</b> , 173-199	0
109	Shining light on ZnIn <sub>2</sub> S <sub>4</sub> photocatalysts: Promotional effects of surface and heterostructure engineering toward artificial photosynthesis.	2
108	Development and Mechanistic Studies of Ternary Nanocomposites for Hydrogen Production from Water Splitting to Yield Sustainable/Green Energy and Environmental Remediation.. <b>2022</b> , 14,	0
107	The microthermal construction of Z-scheme CdS@g-C3N4 composite: Efficient tetracycline photodegradation, reaction mechanism and possible degradation pathway. <b>2022</b> , 125, 112092	1
106	A self-cleaning photocatalytic composite membrane based on g-C3N4@MXene nanosheets for the removal of dyes and antibiotics from wastewater. <b>2022</b> , 121037	0
105	Recent advances and challenges in 2D/2D heterojunction photocatalysts for solar fuels applications.. <b>2022</b> , 304, 102661	1
104	Preparation of g-C3N4/CNTs composite by dissolution-precipitation method as sulfur host for high-performance lithium-sulfur batteries. <b>2022</b> , 283, 126014	0
103	Synthesis of rGO/g-C3N4 for methyl orange degradation in activating peroxydisulfate under simulated solar light irradiation. <b>2022</b> , 907, 164500	1
102	Nanocavity-assisted single-crystalline Ti <sup>3+</sup> self-doped blue TiO <sub>2</sub> (B) as efficient cocatalyst for high selective CO <sub>2</sub> photoreduction of g-C3N4. <b>2022</b> , 24, 100827	1
101	Embedding ZnCdS@ZnIn <sub>2</sub> S <sub>4</sub> into thiazole-modified g-C3N4 by electrostatic self-assembly to build dual Z-scheme heterojunction with spatially separated active centers for photocatalytic H <sub>2</sub> evolution and ofloxacin degradation. <b>2022</b> , 290, 120858	2
100	Hollow polymeric ionic liquid spheres with hierarchical electron distribution: A novel composite of g-C3N4 for visible light photocatalytic water splitting enhancement. <b>2022</b> , 440, 135625	2
99	Self-Assembled Silver Nanoparticles Decorated on Exfoliated Graphitic Carbon Nitride/Carbon Sphere Nanocomposites as a Novel Catalyst for Catalytic Reduction of Cr(VI) to Cr(III) from Wastewater and Reuse for Photocatalytic Applications.. <b>2021</b> , 6, 35221-35243	1
98	Surface Physicochemistry Modification and Structural Nanoarchitectures of g-C <sub>3</sub> N <sub>4</sub> for Wastewater Remediation and Solar Fuel Generation. 2100993	1
97	A Comparative Study of the Effect of Graphene Oxide, Graphitic Carbon Nitride, and Their Composite on the Photocatalytic Activity of Cu <sub>3</sub> SnS <sub>4</sub> . <b>2022</b> , 12, 14	1
96	Photocatalytic Removal of Antibiotics on g-CN Using Amorphous CuO as Cocatalysts.. <b>2021</b> , 9, 797738	7



95	Tailor-Engineered 2D Cocatalysts: Harnessing Electron Hole Redox Center of 2D g-C <sub>3</sub> N <sub>4</sub> Photocatalysts toward Solar-to-Chemical Conversion and Environmental Purification. 2111875	15
94	Uncovering the multifaceted roles of nitrogen defects in graphitic carbon nitride for selective photocatalytic carbon dioxide reduction: a density functional theory study.. 2022,	1
93	Hydrogenation of CO <sub>2</sub> by photocatalysis: An overview. 2022, 121-140	
92	Temperature-dependent CO <sub>2</sub> Sorption and Thermal-reduction without Reactant Gases on BaTiO <sub>3</sub> Nanocatalysts by Low Temperatures at 300–1000 K.	0
91	ZnIn <sub>2</sub> S <sub>4</sub> -based nanostructures in artificial photosynthesis: Insights into photocatalytic reduction toward sustainable energy production.	0
90	Graphitic Carbon Nitride Decorated with Iron Oxide Nanoparticles as a Novel High-Performance Biomimetic Electrochemical Sensing Platform for Paracetamol Detection. 1	0
89	Rational design of plasmonic Ag@CoFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> p-n heterojunction photocatalysts for efficient overall water splitting. 2022,	1
88	Carbendazim imprinted electrochemical sensor based on CdMoO <sub>4</sub> /g-CN nanocomposite: Application to fruit juice samples.. 2022, 301, 134766	3
87	Scope and prospect of transition metal-based cocatalysts for visible light-driven photocatalytic hydrogen evolution with graphitic carbon nitride. 2022, 465, 214516	1
86	Constructing novel graphitic carbon nitride-based nanocomposites - From the perspective of material dimensions and interfacial characteristics.. 2022, 302, 134889	2
85	Recent advances in solar-driven CO <sub>2</sub> reduction over g-C <sub>3</sub> N <sub>4</sub> -based photocatalysts.	3
84	Recent progress in g-C <sub>3</sub> N <sub>4</sub> -based materials for remarkable photocatalytic sustainable energy. 2022,	0
83	CoSe <sub>2</sub> grafted on 2D g-C <sub>3</sub> N <sub>4</sub> : A promising material for wastewater treatment, electrocatalysis and energy storage. 2022, 137023	1
82	A Flexible and Weavable Lignocellulose-Based Photocatalyst Supported by Natural Three-Dimensional Porous Juncus effusus for Highly Efficient Degradation of Environmental Contaminants.	0
81	Synergistic effect of hierarchical structure and S-scheme heterojunction over O-doped g-C <sub>3</sub> N <sub>4</sub> /N-doped Nb <sub>2</sub> O <sub>5</sub> for highly efficient Photocatalytic CO <sub>2</sub> Reduction. 2022, 121585	4
80	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. Nano Energy, 2022, 99, 107432	17.1 1
79	Precise regulation of Ultra-thin platinum decorated Gold/Graphite carbon nitride photocatalysts by atomic layer deposition for efficient degradation of Rhodamine B under simulated sunlight. 2022, 15, 103951	0
78	Graphene-based polymer composites for photocatalytic applications. 2022, 377-432	

77	Introduction to graphene-based materials and their composites. <b>2022</b> , 1-47	
76	Visible Light-Driven Photoelectrochemical Platform Probing Highly Sensitive Virus Detection.	
75	Chapter 3. Nanotechnology for CO <sub>2</sub> Capture, Storage, and Conversion. <b>2022</b> , 65-116	
74	Light induced ammonia synthesis by crystalline polyoxometalate-based hybrid frameworks coupled with the Sv-1T MoS <sub>2</sub> cocatalyst.	0
73	Highly active bifunctional electrocatalyst: Nanoporous (Ni,Co) 0.85 Se anchored on rGO for water and hydrazine oxidation.	0
72	Chlorophyll sensitized (BiO) <sub>2</sub> CO <sub>3</sub> / CdWO <sub>4</sub> /rGO nano-hybrid assembly for solar assisted photo-degradation of chlorzoxazone. <b>2022</b> , 135472	3
71	A facile synthesis of palladium nanoparticles decorated bismuth oxybromide nanostructures with exceptional photo-antimicrobial activities. <b>2022</b> , 217, 112640	2
70	Cu/Ni core-shell bimetallic cocatalyst decorated polymeric carbon nitride for highly efficient and selective methane production from photocatalytic CO <sub>2</sub> reduction. <b>2022</b> , 599, 153973	1
69	Carbon nitrides as catalyst support in fuel cells: Current scenario and future recommendation. <b>2022</b> , 39-62	
68	Graphene oxide-based photocatalysts for CO <sub>2</sub> reduction. <b>2022</b> , 93-134	
67	Coordination Number Dependent Catalytic Activity of Single-Atom Cobalt Catalysts for Fenton-Like Reaction. 2203001	6
66	Enhanced electrocatalytic full water-splitting reaction by interfacial electric field in 2D/2D heterojunction. <b>2022</b> , 450, 137789	1
65	Advances and challenges in developing cocatalysts for photocatalytic conversion of carbon dioxide to fuels.	1
64	Point-to-face contact heterojunctions: Interfacial design of 0D nanomaterials on 2D g-C <sub>3</sub> N <sub>4</sub> towards photocatalytic energy applications.	4
63	The role of material defects in the photocatalytic CO <sub>2</sub> reduction: Interfacial properties, thermodynamics, kinetics and mechanism. <b>2022</b> , 64, 102175	0
62	Nanoscale p/n junction integration via the synergetic hybridization of facet-controlled Cu <sub>2</sub> O and defect-modulated g-C <sub>3</sub> N <sub>4-x</sub> atomic layers for enhanced photocatalytic water splitting. <b>2022</b> , 29, 101102	0
61	Improved photoresponse of graphitic carbon nitride films via pressure engineering. <b>2022</b> , 199, 453-461	1
60	Evolutionary face-to-face 2D/2D bismuth-based heterojunction: The quest for sustainable photocatalytic applications. <b>2022</b> , 29, 101636	3

59	Two-dimensional MgAl <sub>2</sub> S <sub>4</sub> as potential photocatalyst for water splitting and strategies to boost its performance. <b>2022</b> , 605, 154826	0
58	Two-Dimensional MgAl <sub>2</sub> S <sub>4</sub> as Potential Photocatalyst for Water Splitting and Strategies to Boost its Performance.	0
57	3D Fe-MOF embedded into 2D thin layer carbon nitride to construct 3D/2D S-scheme heterojunction for enhanced photoreduction of CO <sub>2</sub> . <b>2022</b> , 43, 2625-2636	0
56	A novel supramolecular self-assembling hybrid system for visible-light-driven overall water splitting. <b>2022</b> , 6, 2790-2795	0
55	Emerging single-atom iron catalysts for advanced catalytic systems.	1
54	Accelerated Photodegradation of Organic Pollutants over BiOBr/Protonated g-C <sub>3</sub> N <sub>4</sub> . <b>2022</b> , 12, 1109	1
53	Heterostructures of 2D materials and their applications in biosensing. <b>2022</b> , 101024	2
52	Toward Excellence in Photocathode Engineering for Photoelectrochemical CO <sub>2</sub> Reduction: Design Rationales and Current Progress. 2201093	5
51	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. <b>2022</b> , 12, 1043	0
50	Hybrid Materials for CO <sub>2</sub> Reduction and H <sub>2</sub> Generation. <b>2022</b> , 147-168	0
49	Synergistic utilization of magnetic rGO/NiFe <sub>2</sub> O <sub>4</sub> -g-C <sub>3</sub> N <sub>4</sub> S-Scheme heterostructure photocatalyst with enhanced charge carrier separation and transfer: A highly stable and robust photocatalyst for efficient solar fuel (hydrogen) generation. <b>2022</b> ,	0
48	Fabrication of an innovative electrochemical sensor based on graphene-coated silver nanoparticles decorated over graphitic carbon nitride for efficient determination of estradiol.	1
47	Self-snapping hydrogel-based electroactive microchannels as nerve guidance conduits. <b>2022</b> , 16, 100437	0
46	Conductivity and dielectric properties of heterostructures based on novel graphitic carbon nitride and silver nanoparticle composite film for electronic applications. <b>2022</b> , 17, 1089-1098	0
45	Decorating Phosphorus-Doped g-C <sub>3</sub> N <sub>4</sub> with Zinc Porphyrin Metal-Organic Framework via an Electrostatic Self-Assembly Process: An Efficient Strategy to Boost Photocatalytic Hydrogen Evolution Performance. 2200714	0
44	Fabrication of LaFeO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> @reduced graphene oxide 3-dimensional nanostructure supercapacitor.	0
43	A Targeted Review of Current Progress, Challenges and Future Perspective of g-C <sub>3</sub> N <sub>4</sub> based Hybrid Photocatalyst Toward Multidimensional Applications.	0
42	An overview of the current progress of graphitic carbon nitride and its multifunctional applications. <b>2022</b> , 10, 108745	0

- 41 Advances in the photocatalytic reduction functions of graphitic carbon nitride-based photocatalysts in environmental applications: A review. **2022**, 378, 134589 3
- 40 Efficient degradation of organic dyes and reduced Cr(VI) in environmental water purification by in-situ deposition of silver nanoparticles on polydopamine-modified M-ATP/PCN. **2022**, 172, 106528 0
- 39 An effective strategy for promoting charge separation by integrating heterojunctions and multiple homojunctions in TiO<sub>2</sub> nanorods to enhance photoelectrochemical oxygen evolution. **2023**, 630, 888-900 1
- 38 Single-atom dispersed Zn-N<sub>3</sub> active sites bridging the interlayer of g-C<sub>3</sub>N<sub>4</sub> to tune NO oxidation pathway for the inhibition of toxic by-product generation. **2023**, 454, 140084 0
- 37 Two-dimensional heterostructures for photocatalytic CO<sub>2</sub> reduction. **2023**, 216, 114699 0
- 36 The introduction of carbon nanosheet buffer layer for enhanced hydrogen evolution performance of C<sub>3</sub>N<sub>4</sub>/CoP photocatalysts. **2022**, 132, 185305 0
- 35 Photocatalytic Conversion of CO<sub>2</sub> into Value Added and Renewable Fuels over Heterogeneous Nanocatalysts. **2022**, 221-274 0
- 34 Efficient enzyme-metal hybrid catalysts constructed with polymer. 0
- 33 Highly Exposed  $\gamma$ -NH<sub>2</sub> Edge on Fragmented g-C<sub>3</sub>N<sub>4</sub> Framework with Integrated Molybdenum Atoms for Catalytic CO<sub>2</sub> Cycloaddition: DFT and Techno-Economic Assessment. 2204336 0
- 32 Insight into photo-fenton catalytic degradation of tetracycline by environmental friendly nanocomposite 1T-2H hybrid phases MoS<sub>2</sub>/Fe<sub>3</sub>O<sub>4</sub>/g-C<sub>3</sub>N<sub>4</sub>. **2023**, 383, 135406 0
- 31 Facile synthesis route for visible active g-C<sub>3</sub>N<sub>5</sub>/MK30 nanocomposite and its computationally guided photocatalytic degradation of organic pollutants. **2023**, 307, 122865 0
- 30 A metal-free electrochemically exfoliated graphene/graphitic carbon nitride nanocomposite for CO<sub>2</sub> photoreduction to methane under visible light irradiation. **2023**, 11, 109086 0
- 29 Chitosan-based carbon nitride-polydopamine-silver composite dressing with antibacterial properties for wound healing. **2023**, 303, 120436 2
- 28 Framework structure engineering of polymeric carbon nitrides and its recent applications. **2023**, 133, 101056 1
- 27 Fabricating metal-free Z-scheme heterostructures with nitrogen-deficient carbon nitride for fast photocatalytic removal of acetaminophen. **2023**, 308, 122964 0
- 26 Ultrathin origami accordion-like structure of vacancy-rich graphitized carbon nitride for enhancing CO<sub>2</sub> photoreduction. 0
- 25 CdSe-Co<sub>3</sub>O<sub>4</sub>@TiO<sub>2</sub> nanoflower-based photoelectrochemical platform probing visible light-driven virus detection. **2023**, 190, 0
- 24 Interfacial engineering in two-dimensional heterojunction photocatalysts. **2023**, 0

- 23 Self-Assembled Synthesis of Porous Iron-Doped Graphitic Carbon Nitride Nanostructures for Efficient Photocatalytic Hydrogen Evolution and Nitrogen Fixation. **2023**, 13, 275 ○
- 22 High-permeable graphene oxide/graphitic carbon nitride composite nanofiltration membrane for selective separation of dye and desalination. **2023**, 109306 ○
- 21 Recent advances in metal-free CDs/g-C<sub>3</sub>N<sub>4</sub> photocatalysts: Synthetic strategies, mechanism insight, and applications. **2023**, 1 ○
- 20 Polyoxometalate-based graphitic carbon nitride for reduction of toxic nitro aromatic compounds in water. **2023**, 296, 127308 ○
- 19 Z-Scheme ZnV<sub>2</sub>O<sub>4</sub>/g-C<sub>3</sub>N<sub>4</sub> Heterojunction Catalyst Produced by the One-Pot Method for the Degradation of Tetracycline under Visible Light. **2023**, 62, 72-84 ○
- 18 Bionic Opto-responsive Fiber for Directing Neurite Growth. **2023**, 100311 ○
- 17 Oxygen vacancy-mediated direct solid phase integration of interfacial chemical bond reinforced LaNiO<sub>3</sub>/RGO/g-C<sub>3</sub>N<sub>4</sub> heterojunction for improving hydrogen production. **2023**, 616, 156501 ○
- 16 Performance analysis of externally reflected photoreactor for CO<sub>2</sub> conversion to methanol using f-C<sub>3</sub>N<sub>4</sub>/ZnV<sub>2</sub>O<sub>6</sub> S-scheme photocatalyst. **2023**, 30, 103032 ○
- 15 Efficient OER electrocatalyst based on Co<sub>0.85</sub>Se/rGO nanocomposite. **2023**, 29, 1515-1521 ○
- 14 Designing novel 0D/1D/2D NiO@La(OH)<sub>3</sub>/g-C<sub>3</sub>N<sub>4</sub> heterojunction for enhanced photocatalytic hydrogen production. **2023**, 460, 141667 ○
- 13 Development of direct Z-schemes 2D/2D Bi<sub>2</sub>O<sub>2</sub>CO<sub>3</sub>/ SrTiO<sub>3</sub> photocatalyst with interfacial interaction for photocatalytic CO<sub>2</sub> reduction. **2023**, 311, 123323 ○
- 12 Confined growth of NiCo<sub>2</sub>S<sub>4</sub> on 2D/2D porous carbon self-repairing g-C<sub>3</sub>N<sub>4</sub>/rGO heterostructure for enhanced performance of asymmetric supercapacitors. **2023**, 463, 142376 ○
- 11 Recent progress on the development of g-C<sub>3</sub>N<sub>4</sub> based composite material and their photocatalytic application of CO<sub>2</sub> reductions. **2023**, 11, 109727 ○
- 10 Alkali metal ion-doped heptazine-based g-C<sub>3</sub>N<sub>4</sub> quantum dots for efficient adsorption of methyl blue: A DFT perspective. **2023**, 38, 102852 ○
- 9 A novel adsorptive and photocatalytic system for dye degradation using ZIF-8 derived carbon (ZIF-C)-modified graphene oxide nanosheets. **2023**, 143, 104674 ○
- 8 Post-functionalization of graphitic carbon nitride for highly efficient photocatalytic hydrogen evolution. **2023**, 51, 205-214 ○
- 7 Advancement in two-dimensional carbonaceous nanomaterials for photocatalytic water detoxification and energy conversion. **2023**, 11, 109517 ○
- 6 Near-Infrared Light Driven ZnIn<sub>2</sub>S<sub>4</sub>-Based Photocatalysts for Environmental and Energy Applications: Progress and Perspectives. **2023**, 28, 2142 ○

- 5 Electrodeposition of nanoporous Ni<sub>0.85</sub>Se arrays anchored on rGO promotes high-efficiency oxygen evolution reaction. ○
- 4 Introducing oxygen-doped g-C<sub>3</sub>N<sub>4</sub> onto g-C<sub>3</sub>N<sub>4</sub>/TiO<sub>2</sub> heterojunction for efficient catalytic gatifloxacin degradation and H<sub>2</sub>O<sub>2</sub> production. **2023**, 317, 123791 ○
- 3 Effect of acids on optical and dielectric properties of g-C<sub>3</sub>N<sub>4</sub> and the DFT simulation. **2023**, 55, ○
- 2 Photocatalytic Degradation of Diclofenac by Nitrogen-Doped Carbon Quantum Dot-Graphitic Carbon Nitride (CNQD). **2023**, 13, 735 ○
- 1 Recent Advances, Properties, Fabrication and Opportunities in Two-Dimensional Materials for their Potential Sustainable Applications. **2023**, 102780 ○