

CITATION REPORT

List of articles citing

In-situ synthesis of direct solid-state Z-scheme V₂O₅/g-C₃N₄ heterojunctions with enhanced visible light efficiency in photocatalytic degradation of pollutants

DOI: 10.1016/j.apcatb.2015.06.057

Applied Catalysis B: Environmental, 2016, 180, 663-673.

Source: <https://exaly.com/paper-pdf/65795187/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
561	Comprehensive investigation of the reciprocity of structure and enhanced photocatalytic performance in finned-tube structured TiO ₂ /BiOBr heterojunctions. 2015 , 5, 102228-102237		30
560	Hydrothermal synthesis of g-C ₃ N ₄ /CdWO ₄ nanocomposite and enhanced photocatalytic activity for tetracycline degradation under visible light. 2016 , 18, 6453-6463		50
559	A general nonaqueous sol-gel route to g-CN-coupling photocatalysts: the case of Z-scheme g-CN/TiO with enhanced photodegradation toward RhB under visible-light. 2016 , 6, 39531		68
558	Preparation and properties of visible light responsive g-C ₃ N ₄ /BiNbO ₄ photocatalysts for tinidazole decomposition. 2016 , 176, 37-53		6
557	Thickness-determined photocatalytic performance of bismuth tungstate nanosheets. 2016 , 6, 31744-31750		18
556	Sulfur-doped graphitic carbon nitride decorated with zinc phthalocyanines towards highly stable and efficient photocatalysis. 2016 , 519, 107-115		67
555	Direct Z-scheme composite of CdS and oxygen-defected CdWO ₄ : An efficient visible-light-driven photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 154-161	21.8	154
554	Graphitic carbon nitride (g-C ₃ N ₄) nanocomposites: A new and exciting generation of visible light driven photocatalysts for environmental pollution remediation. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 347-377	21.8	730
553	Facile fabrication and enhanced visible-light photocatalytic activity of In ₂ O ₃ /Ag ₂ CrO ₄ composites. 2016 , 6, 52627-52635		21
552	Fabrication of CoTiO ₃ /g-C ₃ N ₄ Hybrid Photocatalysts with Enhanced H ₂ Evolution: Z-Scheme Photocatalytic Mechanism Insight. 2016 , 8, 13879-89		261
551	Graphitic Carbon Nitride (g-C ₃ N ₄)-Based Photocatalysts for Artificial Photosynthesis and Environmental Remediation: Are We a Step Closer To Achieving Sustainability?. 2016 , 116, 7159-329		4018
550	A novel heterojunction photocatalyst, Bi ₂ SiO ₅ /g-C ₃ N ₄ : synthesis, characterization, photocatalytic activity, and mechanism. 2016 , 6, 40664-40675		70
549	Construction of g-C ₃ N ₄ /Zn _{0.11} Sn _{0.12} Cd _{0.88} S _{1.12} Hybrid Heterojunction Catalyst with Outstanding Nitrogen Photofixation Performance Induced by Sulfur Vacancies. 2016 , 4, 2269-2278		84
548	Carbon quantum dot decorated hollow In ₂ S ₃ microspheres with efficient visible-light-driven photocatalytic activities. 2016 , 6, 40137-40146		11
547	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
546	Synthesis and visible-light-driven photocatalytic activity of p-n heterojunction Ag ₂ O/NaTaO ₃ nanocubes. 2016 , 383, 214-221		64
545	Efficient and stable Nb ₂ O ₅ modified g-C ₃ N ₄ photocatalyst for removal of antibiotic pollutant. 2016 , 299, 74-84		245

544	Facile fabrication of g-C ₃ N ₄ /precipitated silica composite with enhanced visible-light photoactivity for the degradation of rhodamine B and Congo red. 2016 , 27, 2051-2060	28
543	The crystal phase transformation of Ag ₂ WO ₄ through loading onto g-C ₃ N ₄ sheets with enhanced visible-light photocatalytic activity. 2016 , 6, 96861-96869	16
542	Soft chemical in situ synthesis and photocatalytic performance of 1D Ag/AgCl/V ₂ O ₅ hetero-nanostructures. 2016 , 183, 215-218	7
541	Facile fabrication of stable metal-free CQDs/g-C ₃ N ₄ heterojunctions with efficiently enhanced visible-light photocatalytic activity. 2016 , 171, 229-237	91
540	Facile fabrication of a direct Z-scheme Ag ₂ CrO ₄ /g-C ₃ N ₄ photocatalyst with enhanced visible light photocatalytic activity. 2016 , 421, 209-221	127
539	Rational construction of Z-scheme Ag ₂ CrO ₄ /g-C ₃ N ₄ composites with enhanced visible-light photocatalytic activity. 2016 , 390, 357-367	113
538	Enhanced photo-Fenton-like process over Z-scheme CoFeO/g-CN Heterostructures under natural indoor light. 2016 , 23, 21833-21845	83
537	Synthesis and characterization of robust Ag ₂ S/Ag ₂ WO ₄ composite microrods with enhanced photocatalytic performance. 2016 , 31, 2598-2607	28
536	Fabrication, Characterization and Response Surface Method (RSM) Optimization for Tetracycline Photodegradation by BiWO ₃ -graphene oxide (BWO-GO). 2016 , 6, 37466	18
535	Facile synthesis of few-layered MoS ₂ modified BiOI with enhanced visible-light photocatalytic activity. 2016 , 511, 1-7	34
534	One-step synthesis and visible-light-driven H ₂ production from water splitting of Ag quantum dots/g-C ₃ N ₄ photocatalysts. 2016 , 686, 628-634	66
533	Enhanced Photocatalytic Degradation of Tetracycline by AgI/BiVO ₄ Heterojunction under Visible-Light Irradiation: Mineralization Efficiency and Mechanism. 2016 , 8, 32887-32900	325
532	The enhanced photocatalytic performance of Z-scheme two-dimensional/two-dimensional heterojunctions from graphitic carbon nitride nanosheets and titania nanosheets. 2016 , 478, 263-70	38
531	Recent developments in visible-light photocatalytic degradation of antibiotics. 2016 , 37, 792-799	118
530	Construction of nitrogen-doped graphene quantum dots-BiVO ₄ /g-C ₃ N ₄ Z-scheme photocatalyst and enhanced photocatalytic degradation of antibiotics under visible light. 2016 , 6, 61162-61174	83
529	Construction of amorphous Ta ₂ O ₅ /g-C ₃ N ₄ nanosheet hybrids with superior visible-light photoactivities for organic dye degradation and mechanism insight. 2016 , 170, 10-21	36
528	Fabrication of MgFe ₂ O ₄ /MoS ₂ Heterostructure Nanowires for Photoelectrochemical Catalysis. 2016 , 32, 1629-36	46
527	Synthesis and photocatalytic application of visible-light active BiFe ₂ O ₃ /g-C ₃ N ₄ hybrid nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2016 , 187, 171-180	21.8 157

526	Fabrication of a ternary plasmonic photocatalyst CQDs/Ag/Ag ₂ O to harness charge flow for photocatalytic elimination of pollutants. <i>Applied Catalysis B: Environmental</i> , 2016 , 192, 134-144	21.8	127
525	Preparation of solid-state Z-scheme Bi ₂ MoO ₆ /MO (M Cu, Co ^{3/4} , or Ni) heterojunctions with internal electric field-improved performance in photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2016 , 188, 313-323	21.8	120
524	A review on photocatalytic application of g-C ₃ N ₄ /semiconductor (CNS) nanocomposites towards the erasure of dyeing wastewater. <i>Materials Science in Semiconductor Processing</i> , 2016 , 47, 62-84	4.3	139
523	Synthesis of MoS ₂ /g-C ₃ N ₄ nanosheets as 2D heterojunction photocatalysts with enhanced visible light activity. 2016 , 364, 694-702		220
522	Synthesis and Characterization of Novel BiVO ₄ /Ag ₃ VO ₄ Heterojunction with Enhanced Visible-Light-Driven Photocatalytic Degradation of Dyes. 2016 , 4, 757-766		137
521	Facile synthesis and enhanced visible-light photoactivity of DyVO ₄ /g-C ₃ N ₄ composite semiconductors. <i>Applied Catalysis B: Environmental</i> , 2016 , 183, 426-432	21.8	50
520	Construction of stable Ta ₃ N ₅ /g-C ₃ N ₄ metal/non-metal nitride hybrids with enhanced visible-light photocatalysis. 2017 , 391, 392-403		58
519	A review on g-C ₃ N ₄ -based photocatalysts. 2017 , 391, 72-123		1687
518	In-situ synthesis of novel Z-scheme SnS(2)/BiOBr photocatalysts with superior photocatalytic efficiency under visible light. 2017 , 493, 1-9		73
517	A bio-chemical application of N-GQDs and g-CN QDs sensitized TiO ₂ nanopillars for the quantitative detection of pcDNA3-HBV. 2017 , 91, 456-464		50
516	Magnetically separable photocatalyst of direct Z-scheme g-C ₃ N ₄ nanosheets/natural hematite ore hybrids. 2017 , 336, 156-163		26
515	Fabrication of novel Z-scheme InVO ₄ /CdS heterojunctions with efficiently enhanced visible light photocatalytic activity. 2017 , 19, 982-993		32
514	Bi ₂ O ₃ nanoparticles incorporated porous TiO ₂ films as an effective p-n junction with enhanced photocatalytic activity. 2017 , 100, 1339-1349		35
513	Oxygen defects-mediated Z-scheme charge separation in g-C ₃ N ₄ /ZnO photocatalysts for enhanced visible-light degradation of 4-chlorophenol and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 406-416	21.8	255
512	Graphene quantum dots modified mesoporous graphite carbon nitride with significant enhancement of photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2017 , 207, 429-437	21.8	175
511	A new ribbon-ignition method for fabricating p-CuO/n-CeO ₂ heterojunction with enhanced photocatalytic activity. 2017 , 403, 699-706		34
510	Novel BiAg ₂ MoO ₄ /g-C ₃ N ₄ heterojunction catalysts with highly enhanced visible-light-driven photocatalytic activity. 2017 , 7, 2163-2171		53
509	Efficient and stable ZrO ₂ /Fe modified hollow-C ₃ N ₄ for photodegradation of the herbicide MTSM. 2017 , 7, 3966-3974		17

508	Novel visible-light-driven Z-scheme Bi ₁₂ GeO ₂₀ /g-C ₃ N ₄ photocatalyst: Oxygen-induced pathway of organic pollutants degradation and proton assisted electron transfer mechanism of Cr(VI) reduction. <i>Applied Catalysis B: Environmental</i> , 2017 , 207, 17-26	21.8	219
507	Enhanced photocatalytic oxidation of toluene with a coral-like direct Z-scheme BiVO ₄ /g-C ₃ N ₄ photocatalyst. 2017 , 714, 619-626		74
506	Enhanced visible-light photocatalytic decomposition of organic dye over CdSe/Al ₂ TiO ₅ heterojunction photocatalysts. 2017 , 712, 486-493		20
505	Enhanced visible-light photocatalytic activity from graphene-like boron nitride anchored on graphitic carbon nitride sheets. 2017 , 52, 9477-9490		37
504	A novel Z-scheme Er ³⁺ :YAlO ₃ /Ta ₂ O ₅ -CaIn ₂ S ₄ /MoSe ₂ -reduced graphene oxide photocatalyst with superior photocatalytic hydrogen evolution activity. 2017 , 111, 628-637		9
503	Construction of WO ₃ /g-C ₃ N ₄ composites as efficient photocatalysts for pharmaceutical degradation under visible light. 2017 , 7, 2591-2600		65
502	Insight into synergistically enhanced adsorption and visible light photocatalytic performance of Z-scheme heterojunction of SrTiO ₃ (La,Cr)-decorated WO ₃ nanosheets. 2017 , 412, 279-289		31
501	Anchoring Tailored Low-Index Faceted BiOBr Nanoplates onto TiO ₂ Nanorods to Enhance the Stability and Visible-Light-Driven Catalytic Activity. 2017 , 9, 16091-16102		95
500	Facile fabrication of direct Z-scheme MoS ₂ /Bi ₂ WO ₆ heterojunction photocatalyst with superior photocatalytic performance under visible light irradiation. 2017 , 335, 140-148		62
499	Synthesis of Ag ₂ O and Ag co-modified flower-like SnS ₂ composites with enhanced photocatalytic activity under solar light irradiation. 2017 , 63, 76-83		24
498	Improved photocatalytic activities of g-C ₃ N ₄ nanosheets by effectively trapping holes with halogen-induced surface polarization and 2,4-dichlorophenol decomposition mechanism. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 60-67	21.8	101
497	In Situ Hydrothermal Construction of Direct Solid-State Nano-Z-Scheme BiVO ₄ /Pyridine-Doped g-CN Photocatalyst with Efficient Visible-Light-Induced Photocatalytic Degradation of Phenol and Dyes. 2017 , 2, 2728-2739		59
496	Visible-light-assisted peroxymonosulfate activation and mechanism for the degradation of pharmaceuticals over pyridyl-functionalized graphitic carbon nitride coordinated with iron phthalocyanine. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 230-239	21.8	93
495	Phosphorus- and Sulfur-Codoped g-C ₃ N ₄ : Facile Preparation, Mechanism Insight, and Application as Efficient Photocatalyst for Tetracycline and Methyl Orange Degradation under Visible Light Irradiation. 2017 , 5, 5831-5841		260
494	Highly efficient visible-light-driven photocatalytic degradation of tetracycline by a Z-scheme g-CN/BiTaO nanocomposite photocatalyst. 2017 , 46, 8431-8438		69
493	Functional carbon nitride materials [Design strategies for electrochemical devices. 2017 , 2,		526
492	A novel Z-scheme visible light driven Cu ₂ O/Cu/g-C ₃ N ₄ photocatalyst using metallic copper as a charge transfer mediator. 2017 , 432, 187-195		64
491	Heterojunction: important strategy for constructing composite photocatalysts. 2017 , 62, 599-601		48

490	Visible-light-driven photocatalytic removal of antibiotics by newly designed CN@MnFeO-graphene nanocomposites. 2017 , 336, 81-92		167
489	Synthesis of dark orange montmorillonite/g-C ₃ N ₄ composites and their applications in the environment. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 107, 131-139	3.9	11
488	Electrospun HSiWO/cellulose acetate composite nanofibrous membrane for photocatalytic degradation of tetracycline and methyl orange with different mechanism. 2017 , 168, 153-162		53
487	Construction of Z-Scheme Bi ₂ WO ₆ /g-C ₃ N ₄ Heterojunction Photocatalysts with Enhanced Visible-Light Photocatalytic Activity. 2017 , 70, 889		5
486	Graphene oxide and carbon nitride nanosheets co-modified silver chromate nanoparticles with enhanced visible-light photoactivity and anti-photocorrosion properties towards multiple refractory pollutants degradation. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 493-505	21.8	127
485	Synthesis and characterization of Z-scheme In ₂ S ₃ /Ag ₂ CrO ₄ composites with an enhanced visible-light photocatalytic performance. 2017 , 41, 845-856		50
484	Graphitic carbon nitride (g-C ₃ N ₄)-based photocatalysts for solar hydrogen generation: recent advances and future development directions. 2017 , 5, 23406-23433		358
483	One-step syntheses of MoS ₂ /graphitic carbon composites with enhanced photocatalytic activity under visible light irradiation. 2017 , 41, 14171-14178		8
482	Modification of ZnIn ₂ S ₄ by anthraquinone-2-sulfonate doped polypyrrole as acceptor-donor system for enhanced photocatalytic degradation of tetracycline. 2017 , 348, 150-160		38
481	Facile synthesis of CdS/BiVO photocatalysts with enhanced visible-light photocatalytic activity for degradation of organic pollutants in water. 2017 , 46, 12675-12682		41
480	Highly efficient visible-light-induced photoactivity of Z-scheme Ag ₂ CO ₃ /Ag/WO ₃ photocatalysts for organic pollutant degradation. 2017 , 4, 2175-2185		101
479	In situ synthesis of g-C ₃ N ₄ /TiO ₂ heterostructures with enhanced photocatalytic hydrogen evolution under visible light. 2017 , 7, 40327-40333		40
478	RGO-Promoted All-Solid-State g-C ₃ N ₄ /BiVO ₄ Z-Scheme Heterostructure with Enhanced Photocatalytic Activity toward the Degradation of Antibiotics. 2017 , 56, 8823-8832		90
477	In situ synthesis of a nanoplate-like Bi-based heterojunction for photocatalytic degradation of ciprofloxacin. 2017 , 224, 69-77		18
476	Sustainable visible-light-driven Z-scheme porous Zn ₃ (VO ₄) ₂ /g-C ₃ N ₄ heterostructure toward highly photoredox pollutant and mechanism insight. 2017 , 78, 517-529		23
475	Facile fabrication of a direct Z-scheme MoO ₃ /Ag ₂ CrO ₄ composite photocatalyst with improved visible light photocatalytic performance. 2017 , 28, 15967-15979		20
474	Synthesis of Z-scheme Ag ₂ CrO ₄ /Ag/g-C ₃ N ₄ composite with enhanced visible-light photocatalytic activity for 2,4-dichlorophenol degradation. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 439-449	21.8	113
473	Improved electron-hole separation and migration in V ₂ O ₅ /rutile-anatase photocatalyst system with homo-hetero junctions and its enhanced photocatalytic performance. 2017 , 330, 294-308		46

472	Facile fabrication of Ag ₃ VO ₄ /attapulgite composites for highly efficient visible light-driven photodegradation towards organic dyes and tetracycline hydrochloride. 2017 , 19, 1		7
471	An environmentally friendly Z-scheme WO ₃ /CDots/CdS heterostructure with remarkable photocatalytic activity and anti-photocorrosion performance. 2017 , 356, 1-13		79
470	Facile one-step hydrothermal synthesis of noble-metal-free hetero-structural ternary composites and their application in photocatalytic water purification. 2017 , 7, 50701-50712		11
469	Facile Preparation of Bi ₂₄ O ₃₁ Cl ₁₀ Nanosheets for Visible-Light-Driven Photocatalytic Degradation of Tetracycline Hydrochloride. 2017 , 147, 2167-2172		21
468	Microstructure of carbon nitride affecting synergetic photocatalytic activity: Hydrogen bonds vs. structural defects. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 49-57	21.8	106
467	Modified g-C ₃ N ₄ /TiO ₂ nanosheets/ZnO ternary facet coupled heterojunction for photocatalytic degradation of p-toluenesulfonic acid (p-TSA) under visible light. 2017 , 85, 1-6		29
466	Perovskite oxide ultrathin nanosheets/g-C ₃ N ₄ 2D-2D heterojunction photocatalysts with significantly enhanced photocatalytic activity towards the photodegradation of tetracycline. <i>Applied Catalysis B: Environmental</i> , 2017 , 201, 617-628	21.8	285
465	Two-dimensional heterojunction photocatalysts constructed by graphite-like C ₃ N ₄ and Bi ₂ WO ₆ nanosheets: Enhanced photocatalytic activities for water purification. 2017 , 694, 193-200		80
464	Facile preparation of well-dispersed ZnO/cyclized polyacrylonitrile nanocomposites with highly enhanced visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 304-315	21.8	76
463	Construction of carbon nitride and MoS ₂ quantum dot 2D/0D hybrid photocatalyst: Direct Z-scheme mechanism for improved photocatalytic activity. 2017 , 38, 2160-2170		133
462	Hydrothermal synthesis of InO nanoparticles hybrid twins hexagonal disk ZnO heterostructures for enhanced photocatalytic activities and stability. 2017 , 12, 466		34
461	Self-assembled hierarchical carbon/g-C ₃ N ₄ composite with high photocatalytic activity. 2018 , 51, 135501		9
460	Boosting visible light photocatalytic performance of g-C ₃ N ₄ nanosheets by combining with LaFeO ₃ nanoparticles. 2018 , 102, 353-361		24
459	Improving visible-light-driven photocatalytic NO oxidation over BiOBr nanoplates through tunable oxygen vacancies. 2018 , 39, 779-789		38
458	Controllable preparation of highly dispersed TiO ₂ nanoparticles for enhanced catalytic oxidation of dibenzothiophene in fuels. 2018 , 32, e4351		4
457	Construction of Eu ₂ O ₃ /g-C ₃ N ₄ Redox Heterojunctions Containing Eu ³⁺ /Eu ²⁺ Self-Redox Centers for Boosted Visible-Light Photocatalytic Activity. 2018 , 2018, 2564-2573		9
456	Polyoxometalate-Based Metal-Organic Frameworks as Visible-Light-Induced Photocatalysts. 2018 , 57, 5030-5037		97
455	Ti ³⁺ defect mediated g-C ₃ N ₄ /TiO ₂ Z-scheme system for enhanced photocatalytic redox performance. 2018 , 448, 288-296		63

454	In-situ loading of (BiO) ₂ CO ₃ on g-C ₃ N ₄ with promoted solar-driven photocatalytic performance originated from a direct Z-scheme mechanism. <i>Materials Science in Semiconductor Processing</i> , 2018 , 82, 97-103	4.3	21
453	Enhanced visible-light-driven photocatalytic activities of Bi ₂ Fe ₄ O ₉ /g-C ₃ N ₄ composite photocatalysts. 2018 , 104, 104-111		27
452	Synthesis of the 0D/3D CuO/ZnO Heterojunction with Enhanced Photocatalytic Activity. 2018 , 122, 9531-9539	154	
451	Effects of calcining temperature on formation of hierarchical TiO ₂ /g-C ₃ N ₄ hybrids as an effective Z-scheme heterojunction photocatalyst. 2018 , 441, 1012-1023		114
450	Facile fabrication of nanosized graphitic carbon nitride sheets with efficient charge separation for mitigation of toxic pollutant. 2018 , 342, 30-40		28
449	In-situ synthesis of direct solid-state dual Z-scheme WO ₃ /g-C ₃ N ₄ /Bi ₂ O ₃ photocatalyst for the degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , 2018 , 227, 376-385	21.8	330
448	Regionalized and vectorial charges transferring of CdZnS twin nanocrystal homojunctions for visible-light driven photocatalytic applications. 2018 , 518, 156-164		31
447	Bimetal-organic frameworks derived carbon doped ZnO/Co ₃ O ₄ heterojunction as visible-light stabilized photocatalysts. <i>Materials Science in Semiconductor Processing</i> , 2018 , 79, 24-31	4.3	16
446	One-step synthesis of ZnS-N/C nanocomposites derived from Zn-based chiral metal-organic frameworks with highly efficient photocatalytic activity for the selective oxidation of cis-cyclooctene. 2018 , 5, 723-731		8
445	Novel Z-scheme BiOBr/reduced graphene oxide/protonated g-C ₃ N ₄ photocatalyst: Synthesis, characterization, visible light photocatalytic activity and mechanism. 2018 , 437, 51-61		101
444	Fabrication of Excellent Heterojunction Assisting by Interfaced Oxygen Vacancy to Improve the Separation Capacity of Photogenerated Carriers. 2018 , 5, 1701325		15
443	Visible light driven redox-mediator-free dual semiconductor photocatalytic systems for pollutant degradation and the ambiguity in applying Z-scheme concept. <i>Applied Catalysis B: Environmental</i> , 2018 , 227, 296-311	21.8	142
442	Construction of an all-solid-state Z-scheme photocatalyst based on graphite carbon nitride and its enhancement to catalytic activity. 2018 , 5, 599-615		143
441	Graphitic Carbon Nitride as a New Sensitive Material for Electrochemical Determination of Trace Amounts of Tartrazine in Food Samples. 2018 , 11, 2907-2915		22
440	Novel indirect Z-scheme photocatalyst of Ag nanoparticles and polymer polypyrrole co-modified BiOBr for photocatalytic decomposition of organic pollutants. 2018 , 445, 242-254		79
439	Graphitic carbon nitride based nanocomposites for the photocatalysis of organic contaminants under visible irradiation: Progress, limitations and future directions. 2018 , 633, 546-559		80
438	An oxygen-vacancy-rich Z-scheme g-C ₃ N ₄ /Pd/TiO ₂ heterostructure for enhanced visible light photocatalytic performance. 2018 , 440, 432-439		43
437	Enhanced visible light photocatalytic activity for g-C ₃ N ₄ /SnO ₂ :Sb composites induced by Sb doping. 2018 , 53, 9473-9485		13

436	Highly efficient visible-light-driven photocatalytic degradation of rhodamine B by a novel Z-scheme Ag ₃ PO ₄ /MIL-101/NiFe ₂ O ₄ composite. 2018 , 8, 2402-2416		61
435	g-C ₃ N ₄ /g-C ₃ N ₄ isotype heterojunction as an efficient platform for direct photodegradation of antibiotic. 2018 , 26, 210-217		25
434	Ag ₂ MoO ₄ nanoparticles encapsulated in g-C ₃ N ₄ for sunlight photodegradation of pollutants. 2018 , 315, 205-212		44
433	NiS and MoS nanosheet co-modified graphitic CN ternary heterostructure for high efficient visible light photodegradation of antibiotic. 2018 , 341, 10-19		138
432	Enhanced photocatalytic activity of mesoporous carbon/CN composite photocatalysts. 2018 , 512, 474-479		17
431	Highly efficient photocatalysis toward tetracycline of nitrogen doped carbon quantum dots sensitized bismuth tungstate based on interfacial charge transfer. 2018 , 511, 296-306		92
430	Synthesis of hierarchically meso-macroporous TiO ₂ /CdS heterojunction photocatalysts with excellent visible-light photocatalytic activity. 2018 , 512, 47-54		64
429	Metal-free efficient photocatalyst for stable visible-light photocatalytic degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 715-725	21.8	335
428	In situ construction of hierarchical WO ₃ /g-C ₃ N ₄ composite hollow microspheres as a Z-scheme photocatalyst for the degradation of antibiotics. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 417-428	21.8	284
427	g-C ₃ N ₄ -Based Heterostructured Photocatalysts. 2018 , 8, 1701503		1245
426	In situ one-pot fabrication of g-C ₃ N ₄ nanosheets/NiS cocatalyst heterojunction with intimate interfaces for efficient visible light photocatalytic H ₂ generation. 2018 , 430, 208-217		172
425	Insights into the photocatalytic mechanism of mediator-free direct Z-scheme g-C ₃ N ₄ /Bi ₂ MoO ₆ (010) and g-C ₃ N ₄ /Bi ₂ WO ₆ (010) heterostructures: A hybrid density functional theory study. 2018 , 427, 487-498		98
424	Mesocrystalline Ti ₃ +TiO ₂ hybridized g-C ₃ N ₄ for efficient visible-light photocatalysis. 2018 , 128, 21-30		87
423	Novel g-C ₃ N ₄ wrapped Al ₂ O ₃ microspheres heterojunction for efficient photocatalytic application under visible light irradiation. 2018 , 29, 4509-4516		7
422	Construction of plasmonic Ag modified phosphorous-doped ultrathin g-CN nanosheets/BiVO ₄ photocatalyst with enhanced visible-near-infrared response ability for ciprofloxacin degradation. 2018 , 344, 758-769		169
421	Bio-inspired Z-scheme g-CN/AgCrO ₂ for efficient visible-light photocatalytic hydrogen generation. 2018 , 8, 16504		42
420	Construction of Novel CdS/SnNb ₂ O ₆ Heterojunctions with Enhanced Photocatalytic Degradation Activity Under Visible Light. 2018 , 2018, 4812-4818		3
419	Eggshell Membrane-Templated MnO Nanoparticles: Facile Synthesis and Tetracycline Hydrochloride Decontamination. 2018 , 13, 255		11

418	RGO-ZnSe Photocatalyst towards Solar-Light-Assisted Degradation of Tetracycline Antibiotic Water Pollutant. 2018 , 3, 10214-10219	9
417	Green Transforming Metallurgical Residue into Alkali-Activated Silicomanganese Slag-Based Cementitious Material as Photocatalyst. 2018 , 11,	8
416	Photocatalytic Inactivation of Bacteriophage f2 with Ag ₃ PO ₄ /g-C ₃ N ₄ Composite under Visible Light Irradiation: Performance and Mechanism. 2018 , 8, 406	18
415	Facile fabrication of direct solid-state Z-scheme g-CN/FeO heterojunction: a cost-effective photocatalyst with high efficiency for the degradation of aqueous organic pollutants. 2018 , 47, 15382-15390	39
414	Ag-induced synthesis of three dimensionally ordered macroporous anatase/rutile homojunction for solar light-driven Z-scheme photocatalysis. 2018 , 174, 770-779	13
413	Nitrogen-Doped Hollow Mesoporous Carbon Spheres Modified g-C ₃ N ₄ /Bi ₂ O ₃ Direct Dual Semiconductor Photocatalytic System with Enhanced Antibiotics Degradation under Visible Light. 2018 , 6, 16424-16436	104
412	Vanadium pentoxide supported by nanographene platelets for photocatalytic application. 2018 ,	4
411	Hierarchical ZnO Decorated with CeO Nanoparticles as the Direct Z-Scheme Heterojunction for Enhanced Photocatalytic Activity. 2018 , 10, 39679-39687	146
410	Carbon-nitride-based core-shell nanomaterials: synthesis and applications. 2018 , 29, 20280-20301	9
409	Green and Effective Removal of Aqueous Graphene Oxide under UV-Light Irradiation. 2018 , 8,	11
408	A facile band alignment of polymeric carbon nitride isotype heterojunctions for enhanced photocatalytic tetracycline degradation. 2018 , 5, 2604-2617	80
407	Synthesis of vanadium-pentoxide-supported graphitic carbon nitride heterostructure and studied their hydrogen evolution activity under solar light. 2018 , 29, 18760-18770	16
406	Enhancement Photocatalytic Activity of the Heterojunction of Two-Dimensional Hybrid Semiconductors ZnO/V ₂ O ₅ . 2018 , 8, 374	38
405	Heterogeneous photocatalysis and its potential applications in water and wastewater treatment: a review. 2018 , 29, 342001	244
404	Direct Z-scheme photocatalysts: Principles, synthesis, and applications. 2018 , 21, 1042-1063	737
403	Hierarchical Bi ₂ O ₃ /Bi ₂ O ₂ CO ₃ composite microspheres: phase transformation fabrication, characterization and high photocatalytic performance. 2018 , 44, 5995-6010	5
402	Graphitic Carbon Nitride-Based Heterojunction Photoactive Nanocomposites: Applications and Mechanism Insight. 2018 , 10, 21035-21055	179
401	Facile in situ construction of mediator-free direct Z-scheme g-C ₃ N ₄ /CeO ₂ heterojunctions with highly efficient photocatalytic activity. 2018 , 51, 275302	80

400	Enhanced photocatalytic performance of a two-dimensional BiOIO ₃ /g-C ₃ N ₄ heterostructured composite with a Z-scheme configuration. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 947-956	21.8	66
399	Effective light scattering and charge separation in nanodiamond@g-C ₃ N ₄ for enhanced visible-light hydrogen evolution. 2018 , 139, 164-171		30
398	In-situ construction of direct Z-scheme Bi ₂ WO ₆ /g-C ₃ N ₄ composites with remarkably promoted solar-driven photocatalytic activity. 2018 , 217, 207-215		30
397	Fabricating direct Z-scheme PTCDA/g-C ₃ N ₄ photocatalyst based on interfacial strong interaction for efficient photooxidation of benzylamine. 2018 , 456, 861-870		34
396	Honeycomb-like carbon nitride through supramolecular preorganization of monomers for high photocatalytic performance under visible light irradiation. 2018 , 211, 324-334		40
395	Nitrogen Defects-Rich 0D/2D Fe ₂ O ₃ /g-C ₃ N ₄ Z-Scheme Photocatalyst for Enhanced Photooxidation and H ₂ Evolution Efficiencies. 2018 , 13, 1850086		13
394	Environment-friendly Ag/CDots/g-C ₃ N ₄ photocatalysts: Remarkably enhanced photocatalytic tetracycline degradation in visible light. 2018 , 365, 23-31		9
393	Fabrication of AgPO/GO/NiFeO composites with highly efficient and stable visible-light-driven photocatalytic degradation of rhodamine B.. 2018 , 8, 28179-28188		15
392	Stable, metal-free, visible-light-driven photocatalyst for efficient removal of pollutants: Mechanism of action. 2018 , 531, 433-443		42
391	Pyrene-Based Conjugated Polymer/Bi ₂ MoO ₆ Z-Scheme Hybrids: Facile Construction and Sustainable Enhanced Photocatalytic Performance in Ciprofloxacin and Cr(VI) Removal under Visible Light Irradiation. 2018 , 8, 185		6
390	Novel direct Z-scheme Cu ₂ V ₂ O ₇ /g-C ₃ N ₄ for visible light photocatalytic conversion of CO ₂ into valuable fuels. 2018 , 457, 968-974		61
389	Plant-Protein-Modified TiO ₂ (SPI@TiO ₂) for Photodegradation of Dyes. 2018 , 3, 3127-3132		2
388	Ultrathin two-dimensional BiOBr _x 1-x solid solution with rich oxygen vacancies for enhanced visible-light-driven photoactivity in environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2018 , 236, 222-232	21.8	124
387	Morphology and band structure regulation of graphitic carbon nitride microspheres by solvothermal temperature to boost photocatalytic activity. 2018 , 124, 1		15
386	Photocatalytic desulfurization of thiophene base on molecular oxygen and zinc phthalocyanine/g-C ₃ N ₄ . 2018 , 44, 5547-5557		10
385	Integrating MoS ₂ on sulfur-doped porous g-C ₃ N ₄ iostype heterojunction hybrids enhances visible-light photocatalytic performance. 2018 , 768, 766-774		40
384	Fabrication of V ₂ O ₅ /g-C ₃ N ₄ heterojunction composites and its enhanced visible light photocatalytic performance for degradation of gaseous ortho-dichlorobenzene. 2018 , 93, 158-165		26
383	Synergy removal of Cr (VI) and organic pollutants over RP-MoS ₂ /rGO photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 204-213	21.8	128

382	Facile Synthesis of Ag/AgCl Grafted AgBi(MoO ₄) ₂ with Enhanced Photocatalytic Performance Under Visible Light. 2018 , 13, 1850089		1
381	Phase transformation and microwave hydrothermal guided a novel double Z-scheme ternary vanadate heterojunction with highly efficient photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 449-463	21.8	100
380	Graphitic carbon nitride/BiOI loaded on electrospun silica nanofibers with enhanced photocatalytic activity. 2018 , 455, 952-962		29
379	The synergistic effect of phase heterojunction and surface heterojunction to improve photocatalytic activity of VO ₂ : the co-catalytic effect of H ₃ PW ₁₂ O ₄₀ . 2018 , 20, 1		5
378	Fabrication of BiOI/MoS ₂ heterojunction photocatalyst with different treatment methods for enhancing photocatalytic performance under visible-light. 2019 , 120, 110579		26
377	Self-generating CeVO ₄ as conductive channel within CeO ₂ /CeVO ₄ /V ₂ O ₅ to induce Z-scheme-charge-transfer driven photocatalytic degradation coupled with hydrogen production. 2019 , 44, 23921-23935		23
376	Synthesis of solar-light responsive Pt/g-C ₃ N ₄ /SrTiO ₃ composite for improved hydrogen production: Investigation of Pt/g-C ₃ N ₄ /SrTiO ₃ synthetic sequences. 2019 , 44, 21413-21423		19
375	Direct Z-Scheme 2D/2D Photocatalyst Based on Ultrathin g-C ₃ N ₄ and WO ₃ Nanosheets for Efficient Visible-Light-Driven H ₂ Generation. 2019 , 11, 27913-27923		97
374	Continuous photocatalytic mitigation of indoor noxious gases over a Z-scheme g-C ₃ N ₄ /V ₂ O ₅ monolithic structure. 2019 , 161, 106235		8
373	Synthesis and application of VO-CeO nanocomposite catalyst for enhanced degradation of methylene blue under visible light illumination. 2019 , 235, 935-944		26
372	Recent advances in photo-activated sulfate radical-advanced oxidation process (SR-AOP) for refractory organic pollutants removal in water. 2019 , 378, 122149		183
371	Fabrication of a novel carbon quantum Dots-Modified 2D heterojunction for highly efficient sunlight photocatalysis. 2019 , 806, 761-773		14
370	Fabrication of the flower-flake-like CuBi ₂ O ₄ /Bi ₂ WO ₆ heterostructure as efficient visible-light driven photocatalysts: Performance, kinetics and mechanism insight. 2019 , 495, 143521		52
369	A novel synthesis method for Ag/g-C ₃ N ₄ nanocomposite and mechanism of enhanced visible-light photocatalytic activity. 2019 , 30, 15636-15645		9
368	Alkali-assisted synthesis of direct Z-scheme based Bi ₂ O ₃ /Bi ₂ MoO ₆ photocatalyst for highly efficient photocatalytic degradation of phenol and hydrogen evolution reaction. 2019 , 375, 399-409		59
367	Visible-light-driven photocatalytic degradation of sulfamethazine by surface engineering of carbon nitride: Properties, degradation pathway and mechanisms. 2019 , 380, 120815		90
366	Co ²⁺ immobilized on highly ordered mesoporous graphitic carbon nitride (ompg-C ₃ N ₄ /Co ²⁺) as an efficient and recyclable heterogeneous catalyst for one-pot tandem selective photo-oxidation/Knoevenagel condensation. 2019 , 475, 110491		12
365	Promoted spatial charge separation of plasmon Ag and co-catalyst Co P decorated mesoporous g-CN nanosheet assembly for unexpected solar-driven photocatalytic performance. 2019 , 30, 485401		6

364	An efficient g-C3N4-based organic hybrid photocatalyst with PEDOT:PSS as a hole-transporting material. 2019 , 30, 19020-19029	2
363	Surface decoration of microdisk-like g-C3N4/diatomite with Ag/AgCl nanoparticles for application in Cr(VI) reduction. 2019 , 22, e00127	11
362	Sm-doped Pb(Mg _{1/3} Nb _{2/3})O ₃ -xPbTiO ₃ piezocatalyst: Exploring the relationship between piezoelectric property and piezocatalytic activity. 2019 , 17, 183-192	31
361	TiO ₂ /Graphitic Carbon Nitride Nanosheets for the Photocatalytic Degradation of Rhodamine B under Simulated Sunlight. 2019 , 2, 7255-7265	25
360	Ultrathin Graphitic Carbon Nitride Nanosheets as Efficient Catalysts for Degradation of Pollutants under Visible Light. 2019 , 4, 11815-11821	3
359	Construction of direct Z-scheme system for enhanced visible light photocatalytic activity based on ZnCdS/FeWO heterojunction. 2019 , 30, 475704	10
358	Hydrogen bond interactions within OH-CQDs/fiber-like carbon nitride for enhanced photodegradation and hydrogen evolution. 2019 , 495, 143558	18
357	Nanostructured g-C3N4/AgI composites assembled by AgI nanoparticles-decorated g-C3N4 nanosheets for effective and mild photooxidation reaction. 2019 , 43, 14841-14852	10
356	Photocatalytic Applications of Heterostructure Graphitic Carbon Nitride: Pollutant Degradation, Hydrogen Gas Production (water splitting), and CO Reduction. 2019 , 14, 234	47
355	A hybrid of g-CN and porphyrin-based covalent organic frameworks via liquid-assisted grinding for enhanced visible-light-driven photoactivity. 2019 , 48, 14989-14995	40
354	Controllable fabrication of a red phosphorus modified g-C3N4 photocatalyst with strong interfacial binding for the efficient removal of organic pollutants. 2019 , 810, 151885	20
353	Enhanced Photocatalytic CO Reduction in Defect-Engineered Z-Scheme WO ₃ /g-CN Heterostructures. 2019 , 4, 15593-15599	47
352	Facile one-pot synthesis of Mg-doped g-CN for photocatalytic reduction of CO ₂ . 2019 , 9, 28894-28901	9
351	Enhanced photocatalytic H ₂ evolution of ultrathin g-C3N4 nanosheets via surface shuttle redox. 2019 , 810, 151918	23
350	Solar-driven conversion of arylboronic acids to phenols using metal-free heterogeneous photocatalysts. 2019 , 378, 63-67	8
349	Facile synthesis and characterization of V ₂ O ₅ nanobelt bundles containing plasmonic Ag for photoelectrochemical water splitting under visible light irradiation. <i>Ceramics International</i> , 2019 , 45, 23333-23340	5.1 9
348	Fabrication of 2D heterojunction photocatalyst Co-g-C3N4/MoS ₂ with enhanced solar-light-driven photocatalytic activity. 2019 , 43, 463-473	24
347	A gas bubble exfoliation method to prepare g-C3N4 nanosheets with enhanced photocatalytic activities. 2019 , 372, 147-155	13

346	A Type II n-n staggered orthorhombic V ₂ O ₅ /monoclinic clinobisvanite BiVO ₄ heterojunction photoanode for photoelectrochemical water oxidation: Fabrication, characterisation and experimental validation. 2019 , 364, 177-185		58
345	Superior visible light driven photocatalytic degradation of fluoroquinolone drug norfloxacin over novel NiWO ₄ nanorods anchored on g-C ₃ N ₄ nanosheets. 2019 , 567, 43-54		19
344	A novel Z-scheme g- C ₃ N ₄ /LaCoO ₃ heterojunction with enhanced photocatalytic activity in degradation of tetracycline hydrochloride. 2019 , 122, 63-67		42
343	Construction of a Novel Z-Scheme Heterojunction with Molecular Grafted Carbon Nitride Nanosheets and V ₂ O ₅ for Highly Efficient Photocatalysis. 2019 , 123, 4193-4203		23
342	Enhanced photocatalytic performance of TiO ₂ NTs decorated with chrysanthemum-like BiOI nanoflowers. 2019 , 215, 565-572		51
341	Phenyl-grafted carbon nitride semiconductor for photocatalytic CO ₂ -reduction and rapid degradation of organic dyes. 2019 , 9, 822-832		32
340	Urchin-like hierarchical CoZnAl-LDH/RGO/g-C ₃ N ₄ hybrid as a Z-scheme photocatalyst for efficient and selective CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117771	21.8	126
339	Ultrafast NaN ₃ -deflagration induced nitrogen vacancy-enriched g-C ₃ N ₄ for tailoring band structures and enhanced photocatalytic performance. 2019 , 434, 226731		20
338	Recent development in graphitic carbon nitride based photocatalysis for hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117855	21.8	144
337	A novel BiTiO/g-CN hybrid catalyst with a bionic granum configuration for enhanced photocatalytic degradation of organic pollutants. 2019 , 379, 120808		26
336	The facile synthesis and enhanced photocatalytic activity of a graphitic carbon nitride isotype heterojunction with ordered mesopores. 2019 , 43, 10915-10925		7
335	All-Solid Z-Scheme Bi-BiOCl/AgCl Heterojunction Microspheres for Improved Electron-Hole Separation and Enhanced Visible Light-Driven Photocatalytic Performance. 2019 , 35, 7887-7895		21
334	Enhanced photocatalytic properties of defect-rich BiMoO nanoflakes by cavitation and pitting effect. 2019 , 378, 120753		11
333	One-step hydrothermal synthesis of SnO ₂ -MoS ₂ composite heterostructure for improved visible light photocatalytic performance. 2019 , 525, 110398		15
332	Enhanced Photocatalytic Activities of RhB Degradation and H ₂ Evolution from in Situ Formation of the Electrostatic Heterostructure MoS ₂ /NiFe LDH Nanocomposite through the Z-Scheme Mechanism via p-n Heterojunctions. 2019 , 11, 20923-20942		133
331	Organic motif functionalization via covalent linkage in carbon nitride: An exemplification in photocatalysis. 2019 , 152, 40-58		38
330	Synthesis of Z-scheme BiFe ₂ O ₃ /g-C ₃ N ₄ composite with enhanced visible-light photocatalytic reduction of CO ₂ to CH ₃ OH. 2019 , 33, 233-241		79
329	The development of new pigments: Colorful g-C ₃ N ₄ -based catalysts for nicotine removal. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 500-509	21.8	4

328	Localized π -conjugated structure and EPR investigation of g-C ₃ N ₄ photocatalyst. 2019 , 487, 335-342		52
327	Synthesis of a reticular porous MoS ₂ /g-C ₃ N ₄ heterojunction with enhanced visible light efficiency in photocatalytic degradation of RhB. 2019 , 45, 3687-3703		13
326	Assembly of AgI nanoparticles and ultrathin g-C ₃ N ₄ nanosheets codecorated Bi ₂ WO ₆ direct dual Z-scheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced photocatalytic performance. 2019 , 373, 1144-1157		128
325	Z-scheme inverse opal CN/BiOBr photocatalysts for highly efficient degradation of antibiotics. 2019 , 21, 12818-12825		40
324	Construction of Schottky-type Ag-loaded fiber-like carbon nitride photocatalysts for tetracycline elimination and hydrogen evolution. 2019 , 485, 70-80		24
323	Enhanced gas-phase photocatalytic removal of aromatics over direct Z-scheme-dictated H ₃ PW ₁₂ O ₄₀ /g-C ₃ N ₄ film-coated optical fibers. <i>Applied Catalysis B: Environmental</i> , 2019 , 251, 168-180	21.8	45
322	Synthesis and characterization of g-C ₃ N ₄ nanosheets decorated Ag ₂ S composites for investigation of catalytic reduction of 4-nitrophenol, antioxidant and antimicrobial activities. 2019 , 1186, 423-433		29
321	A facile phase transformation strategy for fabrication of novel Z-scheme ternary heterojunctions with efficient photocatalytic properties. 2019 , 11, 7720-7733		47
320	RCQDs @ Ag/VO _x nanorods for enhanced visible-light photocatalytic activity. 2019 , 21, 1		2
319	Carbon Nitride Fabrication and Its Water-Splitting Applications. 2019 , 99-136		
318	In-situ growth of ZnO globular on g-C ₃ N ₄ to fabrication binary heterojunctions and their photocatalytic degradation activity on tetracyclines. 2019 , 92, 60-67		19
317	Accelerating photocatalytic hydrogen evolution and pollutant degradation by coupling organic co-catalysts with TiO ₂ . 2019 , 40, 380-389		88
316	A visualizable means for verifying the manner of charge transfer in WO-based type-II heterostructures. 2019 , 11, 7825-7832		11
315	A novel double Z-scheme BiOBr-GO-polyaniline photocatalyst: Study on the excellent photocatalytic performance and photocatalytic mechanism. 2019 , 483, 875-887		34
314	Design and construction of Z-scheme BiS/nitrogen-doped graphene quantum dots: Boosted photoelectric conversion efficiency for high-performance photoelectrochemical aptasensing of sulfadimethoxine. 2019 , 130, 230-235		42
313	Recent developments of strontium titanate for photocatalytic water splitting application. 2019 , 44, 14316-14340		34
312	Distinctive ternary CdS/Ni ₂ P/g-C ₃ N ₄ composite for overall water splitting: Ni ₂ P accelerating separation of photocarriers. <i>Applied Catalysis B: Environmental</i> , 2019 , 249, 246-256	21.8	74
311	Boosting photocatalytic degradation of RhB via interfacial electronic effects between Fe-based ionic liquid and g-C ₃ N ₄ . 2019 , 4, 198-206		22

310	Enhancement in photocatalytic performance of Ag ₂ AgCl decorated with h-WO ₃ and mechanism insight. 2019 , 125, 1		4
309	Enhanced photocatalytic properties of TiO ₂ nanosheets@2D layered black phosphorus composite with high stability under hydro-oxygen environment. 2019 , 11, 5674-5683		29
308	Highly active ZnO-based biomimetic fern-like microleaves for photocatalytic water decontamination using sunlight. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 129-146	21.8	76
307	Efficiently degradation of polyacrylamide pollution using a full spectrum Sn ₃ O ₄ nanosheet/Ni foam heterostructure photoelectrocatalyst. 2019 , 335, 520-526		14
306	Novel rugby-ball-like Zn ₃ (PO ₄) ₂ @C ₃ N ₄ photocatalyst with highly enhanced visible-light photocatalytic performance. 2019 , 217, 137-146		26
305	Synthesis, Characterization and Application of V ₂ O ₅ /S-Doped Graphitic Carbon Nitride Nanocomposite for Removing of Organic Pollutants. 2019 , 4, 13736-13745		3
304	Novel Z-scheme Co ₃ O ₄ /WO ₃ nanocomposite performance in adsorption and photocatalytic degradation of ethylparaben and methylene blue in water. 2019 , 10, 045018		3
303	Construction of novel Ag/HKUST-1/g-CN towards enhanced photocatalytic activity for the degradation of pollutants under visible light.. 2019 , 9, 41591-41602		8
302	Looking at the overlooked hole oxidation: Photocatalytic transformation of organic contaminants on graphitic carbon nitride under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019 , 240, 262-269	21.8	18
301	In-situ synthesis of Z-scheme Ag ₂ CO ₃ /Ag/AgNCO heterojunction photocatalyst with enhanced stability and photocatalytic activity. 2019 , 464, 108-114		40
300	In-situ synthesis of 3D microsphere-like In ₂ S ₃ /InVO ₄ heterojunction with efficient photocatalytic activity for tetracycline degradation under visible light irradiation. 2019 , 356, 371-381		119
299	PPECu/NiFe ₂ O ₄ as an efficient visible-light-driven difunctional photocatalyst for degradation of PPCPs and hydrogen production. 2019 , 780, 534-539		6
298	Cost-Efficient Graphitic Carbon Nitride as an Effective Photocatalyst for Antibiotic Degradation: An Insight into the Effects of Different Precursors and Coexisting Ions, and Photocatalytic Mechanism. 2019 , 14, 162-169		15
297	2D/2D BiOCl/K ⁺ Ca ₂ Nb ₃ O ₁₀ heterostructure with Z-scheme charge carrier transfer pathways for tetracycline degradation under simulated solar light. 2019 , 466, 863-873		30
296	One-step synthesis of Fe-doped surface-alkalinized g-C ₃ N ₄ and their improved visible-light photocatalytic performance. 2019 , 469, 739-746		71
295	Facile synthesis of highly efficient photocatalysts based on organic small molecular co-catalyst. 2019 , 469, 553-563		4
294	Type II heterojunction in hierarchically porous zinc oxide/graphitic carbon nitride microspheres promoting photocatalytic activity. 2019 , 538, 99-107		34
293	Multiple charge carrier transfer pathways in BiOBr/Bi ₂ O ₃ /BiO _{0.67} F _{1.66} ternary composite with high adsorption and photocatalytic performance. 2019 , 778, 924-932		9

292	Facile preparation of antifouling g-C3N4/Ag3PO4 nanocomposite photocatalytic polyvinylidene fluoride membranes for effective removal of rhodamine B. 2019 , 36, 236-247		29
291	Simple solid-state synthesis of BiOCl/Bi2O2CO3 heterojunction and its excellent photocatalytic degradation of RhB. 2019 , 784, 377-385		37
290	Facile Preparation of Unsubstituted Iron(II) Phthalocyanine/Carbon Nitride Nanocomposites: A Multipurpose Catalyst with Reciprocally Enhanced Photo/Electrocatalytic Activity. 2019 , 7, 3319-3328		16
289	Synthesis of multifunctional photocatalyst vanadium oxide/activated carbon via in situ utilization of stone coal ore. <i>Ceramics International</i> , 2019 , 45, 4934-4944	5.1	13
288	Highly efficient degradation of 2,4-dichlorophenol over CeO/g-CN composites under visible-light irradiation: Detailed reaction pathway and mechanism. 2019 , 364, 635-644		100
287	Effect of calcination on structure and photocatalytic property of N-TiO/g-CN@diatomite hybrid photocatalyst for improving reduction of Cr(VI). 2019 , 245, 53-62		71
286	Facile immobilization of Ag nanoparticles on g-C3N4/V2O5 surface for enhancement of post-illumination, catalytic, and photocatalytic activity removal of organic and inorganic pollutants. 2019 , 467-468, 268-276		53
285	Amine-assisted synthesis of FeWO4 nanorod-g-C3N4 for enhanced visible light-driven Z-scheme photocatalysis. 2019 , 160, 277-284		28
284	Fabrication of novel 1D/2D V2O5/g-C3N4 composites as Z-scheme photocatalysts for CR degradation and Cr (VI) reduction under sunlight irradiation. 2019 , 7, 102822		30
283	The Photocatalytic Removal of Mercury from Coal-Fired Flue Gas. 2019 , 103-140		1
282	Synthesis and photocatalytic property of V2O5@TiO2 core-shell microspheres towards gaseous benzene. 2019 , 321-322, 164-171		7
281	Effect of precursor types on the performance of polyimide: A metal-free visible-light-driven photocatalyst for effective photocatalytic degradation of pollutants. 2020 , 340, 225-235		11
280	Facile synthesis of free-metal ternary composites for ultra-fast photocatalytic degradation of organic pollutant. 2020 , 340, 294-301		7
279	Visible-light responsive organic nano-heterostructured photocatalysts for environmental remediation and H2 generation. 2020 , 38, 93-106		26
278	Preparation of 3D porous g-C3N4@V2O5 composite electrode via simple calcination and chemical precipitation for supercapacitors. 2020 , 817, 152707		19
277	Co-doped Mo-Mo2C cocatalyst for enhanced g-C3N4 photocatalytic H2 evolution. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118220	21.8	64
276	All-solid-state BiVO4/ZnIn2S4 Z-scheme composite with efficient charge separations for improved visible light photocatalytic organics degradation. 2020 , 31, 547-550		59
275	Hydrothermal synthesis of ZnSnO3 nanoparticles decorated on g-C3N4 nanosheets for accelerated photocatalytic degradation of tetracycline under the visible-light irradiation. 2020 , 230, 115854		38

274	One step and fast preparation of VOx/g-C3N4 photocatalyst via microwave heating for effective degradation of RhB under visible light. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 136, 109122	3.9	11
273	Construction of heterojunction Bi/Bi5O7I/Sn3O4 for efficient noble-metal-free Z-scheme photocatalytic H2 evolution. 2020 , 382, 122810		31
272	Rational design of 3D/2D InO nanocube/ZnInS nanosheet heterojunction photocatalyst with large-area "high-speed channels" for photocatalytic oxidation of 2,4-dichlorophenol under visible light. 2020 , 382, 121098		64
271	Defect as the essential factor in engineering carbon-nitride-based visible-light-driven Z-scheme photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118145	21.8	31
270	Enhanced adsorption and photocatalytic activities of ultrathin graphitic carbon nitride nanosheets: Kinetics and mechanism. 2020 , 381, 122760		40
269	Structured photocatalysts for the removal of emerging contaminants under visible or solar light. 2020 , 41-98		4
268	Diatomite-anchored g-C3N4 nanosheets for selective removal of organic dyes. 2020 , 816, 152652		18
267	Fabrication, characterization and photocatalytic mechanism of a novel Z-scheme BiOBr/Ag3PO4@rGO composite for enhanced visible light photocatalytic degradation. 2020 , 815, 151886		20
266	A Photowelding Strategy for Conductivity Restoration in Flexible Circuits. 2020 , 59, 1098-1102		6
265	Insights into the enhanced adsorption/photocatalysis mechanism of a Bi4O5Br2/g-C3N4 nanosheet. 2020 , 821, 153557		60
264	Ligand-protected atomically precise gold nanoclusters as model catalysts for oxidation reactions. 2020 , 56, 1163-1174		32
263	Photoelectrochemical Performance and Charge Transport Kinetics of CuO Nanocone Arrays. 2020 , 167, 026505		2
262	Novel application of g-C3N4/NaNbO3 composite for photocatalytic selective oxidation of biomass-derived HMF to FFCA under visible light irradiation. 2020 , 31, 1148-1159		31
261	Efficient visible-light-driven photocatalytic hydrogen production over a direct Z-scheme system of TaON/CdZnS with a NiS cocatalyst. 2020 , 19, 80-87		10
260	Facile fabrication of g-C3N4 supported Fe3O4 nanoparticles/ZnO nanorods: A superlative visible light responsive architecture for express degradation of pantoprazole. 2020 , 387, 123766		26
259	One-pot synthesis of BiOCl nanosheets with dual functional carbon for ultra-highly efficient photocatalytic degradation of RhB. 2020 , 182, 109077		17
258	A Photowelding Strategy for Conductivity Restoration in Flexible Circuits. 2020 , 132, 1114-1118		2
257	Graphitic Carbon Nitride-Based Low-Dimensional Heterostructures for Photocatalytic Applications. 2020 , 4, 1900435		40

256	Z-scheme BiOCl/BiBi ₂ O ₃ heterojunction with oxygen vacancy for excellent degradation performance of antibiotics and dyes. 2020 , 55, 4017-4029	28
255	A novel efficient visible-light-driven double Z-scheme PANI/Ag ₃ PO ₄ /CNO heterojunction photocatalyst mediated by PANI and in situ grown AgNPs. 2020 , 55, 3974-3990	15
254	Sn-doped V ₂ O ₅ nanoparticles as catalyst for fast removal of ammonia in air via PEC and PEC-MFC. 2020 , 392, 123738	14
253	Three-dimension branched crystalline carbon nitride: A high efficiency photoelectrochemical sensor of trace Cu ²⁺ detection. 2020 , 330, 135336	15
252	Facile fabrication of a novel visible light active g-C ₃ N ₄ -CoMoO ₄ heterojunction with largely improved photocatalytic performance. 2020 , 281, 128661	4
251	Surface defect-rich g-C ₃ N ₄ /TiO ₂ Z-scheme heterojunction for efficient photocatalytic antibiotic removal: rational regulation of free radicals and photocatalytic mechanism. 2020 , 10, 8295-8304	15
250	Graphitic Carbon Nitride-Based Photocatalytic Materials: Preparation Strategy and Application. 2020 , 8, 16048-16085	44
249	Optimized h-BN/Sb ₂ WO ₆ Interface Mediates an Efficient Charge Separation towards Enhanced Photocatalysis. 2020 , 5, 11637-11647	2
248	Enhancing photodegradation activity of g-C ₃ N ₄ via decorating with S-doped carbon nitride quantum dots by in situ polymerization. 2020 , 292, 121705	11
247	Visible-Light-Driven Electrocatalytic Oxygen Evolution Reaction: NiFe ₂ O ₄ /NiFe layered Double Hydroxide Z-Scheme Heteronanoshet as a Model. 2020 , 8, 2000607	4
246	Solvothermal synthesis of Ag ₂ WO ₄ /Sb ₂ WO ₆ heterostructures for enhanced charge transfer properties and efficient visible-light-driven photocatalytic activity and stability. 2020 , 8, 104301	11
245	An innovative magnetic NiCoFeO/g-CN nano-micro-spherical heterojunction composite photocatalyst with an extraordinarily prominent visible-light-irradiation degradation performance toward organic pollutants. 2020 , 49, 9849-9862	6
244	Degradation of Orange G and Trypan blue using Ag ₂ C ₂ O ₄ /Ag/g-C ₃ N ₄ composites as efficient photocatalyst under solar irradiation. 2020 , 401, 112755	9
243	Z-Scheme LaCoO/g-CN for Efficient Full-Spectrum Light-Simulated Solar Photocatalytic Hydrogen Generation. 2020 , 5, 30373-30382	19
242	Investigation of visible-light-driven photocatalytic tetracycline degradation via carbon dots modified porous ZnSnO ₃ cubes: Mechanism and degradation pathway. 2020 , 253, 117518	56
241	Straightforward Synthesis of SnO/BiS/BiOCl-BiOCl Composites for Drastically Enhancing Rhodamine B Photocatalytic Degradation under Visible Light. 2020 , 5, 20438-20449	13
240	Novelty g-C ₃ N ₄ /HAp composite as highly effective photocatalyst for Cr (VI) photoreduction. 2020 ,	1
239	Novel g-C ₃ N ₄ -carbon dots-aggregation/ferrite hybrid heterojunction photocatalyst with excellent visible-light-driven photodegradation performance toward organic pollutants. 2020 , 109, 110242	3

238	A review on graphitic carbon nitride (g-C ₃ N ₄) based nanocomposites: Synthesis, categories, and their application in photocatalysis. 2020 , 846, 156446		128
237	Visible-Light-Sensitive SrCO ₃ /AgI Hybrids for Tetracycline Degradation. 2020 , 35, 885-892		1
236	Free-standing and flexible 0D CeO ₂ nanodot/1D La(OH) ₃ nanofiber heterojunction net as a novel efficient and easily recyclable photocatalyst. 2020 , 7, 4701-4710		1
235	Unveiling the impact of interfacially engineered selective V ₂ O ₅ nanobelt bundles with flake-like ZnO and Co ₃ O ₄ thin films for multifunctional visible-light water splitting and toxic gas sensing. 2020 , 478, 229081		6
234	Two-photon Absorption in a Defect-engineered Carbon Nitride Polymer Drives Red-light Photocatalysis. 2020 , 12, 4185-4197		7
233	Experimental methods in chemical engineering: Electron paramagnetic resonance spectroscopy-EPR/ESR. 2020 , 98, 1668-1681		8
232	Ag/Nanodiamond/g-C ₃ N ₄ heterostructures with enhanced visible-light photocatalytic performance. 2020 , 525, 146576		18
231	Fabrication and photoelectrocatalytic performance of C ₃ N ₄ -modified Ti/PbO ₂ anode with surface hydrophobicity. 2020 , 24, 1577-1585		3
230	Direct Z-scheme red carbon nitride/rod-like lanthanum vanadate composites with enhanced photodegradation of antibiotic contaminants. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119245	21.8	39
229	Conjugate Polymer-clothed TiO ₂ @VO nanobelts and their enhanced visible light photocatalytic performance in water remediation. 2020 , 578, 402-411		20
228	Synergistic effects of octahedral TiO ₂ -MIL-101(Cr) with two heterojunctions for enhancing visible-light photocatalytic degradation of liquid tetracycline and gaseous toluene. 2020 , 579, 37-49		90
227	Constructing novel red phosphorus decorated iron-based metal organic framework composite with efficient photocatalytic performance. 2020 , 528, 146963		11
226	In situ constructing intramolecular ternary homojunction of carbon nitride for efficient photoinduced molecular oxygen activation and hydrogen evolution. 2020 , 75, 104865		21
225	Green-photodegradation of model pharmaceutical contaminations over biogenic FeO/Au nanocomposite and antimicrobial activity. 2020 , 270, 110831		14
224	Enhanced visible light-active CeO ₂ /CuO/Ag ₂ CrO ₄ ternary heterostructures based on CeO ₂ /CuO nanofiber heterojunctions for the simultaneous degradation of a binary mixture of dyes. 2020 , 44, 5033-5048	40	
223	Construction of 2D-2D V ₂ O ₅ /BNNS nanocomposites for improved aerobic oxidative desulfurization performance. 2020 , 270, 117498		18
222	Facile synthesis of reduced graphene oxide/CdS nanowire composite aerogel with enhanced visible-light photocatalytic activity. 2020 , 22, 1		4
221	One-step synthesis of ZnS/BiOBr photocatalyst to enhance photodegradation of tetracycline under full spectral irradiation. 2020 , 276, 128232		12

220	Synthesis of hollow donut-like carbon nitride for the visible light-driven highly efficient photocatalytic production of hydrogen and degradation of pollutants. 2020 , 44, 12247-12255	3
219	Photocatalytic activity of CuInS ₂ nanoparticles synthesized via a simple and rapid microwave heating process. 2020 , 7, 015074	15
218	Powerful combination of 2D g-C ₃ N ₄ and 2D nanomaterials for photocatalysis: Recent advances. 2020 , 390, 124475	98
217	Facile fabrication of novel AgS/K-g-CN composite and its enhanced performance in photocatalytic H evolution. 2020 , 568, 117-129	82
216	ZnO-Modified g-CN: A Potential Photocatalyst for Environmental Application. 2020 , 5, 3828-3838	60
215	A Novel Approach to Synthesize Nitrogen-Deficient g-C ₃ N ₄ for the Enhanced Photocatalytic Contaminant Degradation and Electrocatalytic Hydrogen Evolution. 2020 , 15, 2050006	6
214	Preparation and characterization of Vanadium pentoxide (V ₂ O ₅) for photocatalytic degradation of monoazo and diazo dyes. 2020 , 19, 100502	26
213	Atomic heterojunction-induced electron interaction in P-doped g-C ₃ N ₄ nanosheets supported V-based nanocomposites for enhanced oxidative desulfurization. 2020 , 387, 124164	34
212	MoS nanosheets anchored on porous ZnSnO cubes as an efficient visible-light-driven composite photocatalyst for the degradation of tetracycline and mechanism insight. 2020 , 390, 122158	87
211	Highly selective Co ₃ O ₄ /silica-alumina catalytic system for deoxygenation of triglyceride-based feedstock. 2020 , 266, 117065	12
210	Rational design direct Z-scheme BiOBr/g-CN heterojunction with enhanced visible photocatalytic activity for organic pollutants elimination.. 2020 , 10, 4681-4689	21
209	Photodegradation of organic pollutants using heterojunctions: A review. 2020 , 8, 103666	79
208	Microwave heating preparation of phosphorus doped g-C ₃ N ₄ and its enhanced performance for photocatalytic H ₂ evolution in the help of Ag ₃ PO ₄ nanoparticles. 2020 , 45, 14354-14367	91
207	Excellent Photocatalytic Efficiency of t-ZrO ₂ /g-C ₃ N ₄ Photocatalyst for Pollutants Degradation: Experiment and theory. 2020 , 104, 106202	1
206	Construction of Embedded Heterostructured SrZrO/Flower-like MoS with Enhanced Dye Photodegradation under Solar-Simulated Light Illumination. 2020 , 5, 9576-9584	4
205	Prominent co-catalytic effect of CoP nanoparticles anchored on high-crystalline g-C ₃ N ₄ nanosheets for enhanced visible-light photocatalytic degradation of tetracycline in wastewater. 2020 , 395, 125118	105
204	Self-Assembly Hydrothermal Synthesis of Silverton-Type Polyoxometalate-Based Photocatalysts for Enhanced Degradation. 2020 , 36, 4454-4464	2
203	Facile Synthesis of a Z-Scheme ZnInS/MoO Heterojunction with Enhanced Photocatalytic Activity under Visible Light Irradiation. 2020 , 5, 8188-8199	34

202	High value-added fluorescence upconversion agents-assisted nano-semiconductors for efficient wide spectral response photocatalysis: Exerting energy transfer effect and applications. 2021 , 39, 243-260	5
201	Visible-light photocatalytic diclofenac removal by tunable vanadium pentoxide/boron-doped graphitic carbon nitride composite. 2021 , 403, 126213	29
200	Enhanced electron and mass transfer flow-through cell with C3N4-MoS2 supported on three-dimensional graphene photoanode for the removal of antibiotic and antibacterial potencies in ampicillin wastewater. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119574	21.8 19
199	Dramatically enhanced degradation of recalcitrant organic contaminants in MgO/Fe(III) Fenton-like system by organic chelating agents. 2021 , 192, 110242	5
198	Construction of highly efficient Z-scheme ZnxCd1-xS/Au@g-C3N4 ternary heterojunction composite for visible-light-driven photocatalytic reduction of CO2 to solar fuel. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119600	21.8 50
197	V2O5/P-g-C3N4 Z-scheme enhanced heterogeneous photocatalytic removal of methyl orange from water under visible light irradiation. 2021 , 608, 125580	18
196	Recent Progress on Carbon Nitride and Its Hybrid Photocatalysts for CO2 Reduction. 2021 , 5, 2000478	16
195	Advances in designing heterojunction photocatalytic materials. 2021 , 42, 710-730	42
194	A simple approach for controlling the morphology of g-C3N4 nanosheets with enhanced photocatalytic properties. 2021 , 111, 108214	17
193	Facile synthesis of GO as middle carrier modified flower-like BiOBr and C3N4 nanosheets for simultaneous treatment of chromium(VI) and tetracycline. 2021 , 32, 2187-2191	10
192	Enhanced norfloxacin degradation by visible-light-driven MnO/EMnOOH photocatalysis under weak magnetic field. 2021 , 761, 143268	13
191	Advances in 2D/2D Z-Scheme Heterojunctions for Photocatalytic Applications. 2021 , 5, 2000397	35
190	Photoelectrochemical properties of TiO2/g-C3N4 composited electrodes fabricated by a co-electrodeposited method. 2021 , 54, 145104	1
189	Direct Z-Scheme Heterostructures Based on MoS2 Quantum Dots for Visible Light-Driven Photocatalytic Tetracycline Degradation. 2021 , 4, 1038-1047	7
188	Synergistic effects of oxygen vacancies and the chelation of tetracycline with metallic ions for enhanced degradation of tetracycline over photocatalysts La2/3KxNiMnO6. 2021 , 23, 1455-1471	1
187	Orienting Z scheme charge transfer in graphitic carbon nitride-based systems for photocatalytic energy and environmental applications. 2021 , 9, 10039-10080	25
186	Development of a Z-scheme Ag/Ag2WO4/g-C3N4 photocatalyst for RhB fast degradation assisted with H2O2. 2021 , 32, 2061-2074	0
185	Regulating Electron-Hole Separation to Promote the Photocatalytic Property of BiOBr_{1-x}Ag_x/BiOBr Local Distorted Hierarchical Microspheres. 2021 , 10, 36-55	

184	Enhanced photocatalytic performance of rhodamine B and enrofloxacin by Pt loaded BiVO: boosted separation of charge carriers, additional superoxide radical production, and the photocatalytic mechanism.. 2021 , 11, 9746-9755		2
183	Z-scheme g-C3N4/C/S-g-C3N4 heterostructural nanotube with enhanced porous structure and visible light driven photocatalysis. 2021 , 314, 110891		15
182	Promoting the electrocatalytic performance of PbO2 nanocrystals via incorporation of Y2O3 nanoparticles: Degradation application and electrocatalytic mechanism. 2021 , 369, 137671		6
181	Z-scheme TiO2/g-C3N4 composites prepared by hydrothermal assisted thermal polymerization with enhanced visible light photocatalytic activity. 2021 , 47, 1503-1518		6
180	Very fast photodegradation of tetracycline by a novel ternary nanocomposite as a visible light driven photocatalyst. 2021 , 261, 124242		3
179	Facile synthesis of BiOCl/g-C3N4 heterojunction via in situ hydrolysis of Bi nanospheres: a high-efficiency visible-light-driven photocatalyst. 2021 , 32, 9972-9989		2
178	Visible-light-mediated aerobic oxidation of toluene via V2O5@CN boosting benzylic C(sp3)H bond activation. 2021 , 395, 227-235		7
177	Synthesis of Coralloid Carbon Nitride Polymers and Photocatalytic Selective Oxidation of Benzyl Alcohol. 2021 ,		2
176	Emerging polymeric carbon nitride Z-scheme systems for photocatalysis. 2021 , 2, 100355		46
175	A Z-scheme iron-based hollow microsphere with enhanced photocatalytic performance for tetracycline degradation. 2021 , 36, 1600-1613		0
174	Photocatalytic reduction and removal of mercury ions over mesoporous CuO/ZnO S-scheme heterojunction photocatalyst. <i>Ceramics International</i> , 2021 , 47, 9659-9667	5.1	21
173	Ag@AgCl Photocatalyst Loaded on the 3D Graphene/PANI Hydrogel for the Enhanced Adsorption-Photocatalytic Degradation and In Situ SERS Monitoring Properties. 2021 , 6, 4166-4177		2
172	Tracking the chemical active species to unravel the photocatalytic activity evolution of structure modified polymeric carbon nitride. 2021 , 546, 149099		
171	An Overview of the Recent Progress in Polymeric Carbon Nitride Based Photocatalysis. 2021 , 21, 1811-1844		15
170	Construction of dual ion (Fe3+/Fe2+ and Nb5+/Nb4+) synergy and full spectrum 1D nanorod Fe2O3/NaNbO3 photo-Fenton catalyst for the degradation of antibiotic: Effects of H2O2, S2O82- and toxicity. 2021 , 261, 118269		10
169	Enhanced photocatalytic degradation activity of Z-scheme heterojunction BiVO /Cu/g-C N under visible light irradiation. 2021 , 93, 2010-2024		2
168	Significant enhancement of photocatalytic H2 production simultaneous with dye degradation over Ni2P modified In2O3 nanocomposites. 2021 , 263, 118366		6
167	Enhanced Photocatalytic Performance of NiS2/g-C3N4/SnS2 by Improving the Charge Diffusion on Both Valence Band and Conduction Band of Carbon Nitride. 2021 , 6, 4440-4447		0

166	Investigation on the Photocatalytic Hydrogen Evolution Properties of Z-Scheme Au NPs/CuInS ₂ /NCN-CN _x Composite Photocatalysts. 2021 , 9, 7286-7297	4
165	Construction of Cu ₃ P-ZnSnO ₃ -g-C ₃ N ₄ p-n-n heterojunction with multiple built-in electric fields for effectively boosting visible-light photocatalytic degradation of broad-spectrum antibiotics. 2021 , 265, 118477	47
164	Mesoporous V ₂ O ₅ /g-C ₃ N ₄ Nanocomposites for Promoted Mercury (II) Ions Reduction Under Visible Light. 2021 , 31, 4209	8
163	Acid-activated carbon nitrides as photocatalysts for degrading organic pollutants under visible light. 2021 , 273, 129731	9
162	Z-scheme Bi ₂ MoO ₆ nanoplate-decorated flower-like Bi ₁₂ SiO ₂₀ for efficient photocatalytic degradation of organic pollutants. 2021 , 56, 15241	3
161	Construction of graphene aerogel photocatalyst CoS/g-C ₃ N ₄ /rGA with enhanced photocatalytic activity for the degradation of tetracycline hydrochloride. 2021 , 116, 108448	2
160	Construction of 2D polyoxoniobate/RGO heterojunction photocatalysts for the enhanced photodegradation of tetracycline. 2021 , 553, 149505	5
159	Nanoremediation: Sunlight mediated dye degradation using electrospun PAN/CuO-ZnO nanofibrous composites. 2021 , 280, 116964	6
158	Construction of a novel Z-scheme V ₂ O ₅ /NH ₂ -MIL-101(Fe) composite photocatalyst with enhanced photocatalytic degradation of tetracycline. 2021 , 117, 106611	7
157	2D/2D MoS ₂ /g-C ₃ N ₄ layered heterojunctions with enhanced interfacial electron coupling effect. 2021 , 893, 115350	3
156	Synthesis, structure, and selected photocatalytic applications of graphitic carbon nitride: a review. 2021 , 32, 18512-18543	6
155	A review of material aspects in developing direct Z-scheme photocatalysts. 2021 , 47, 75-107	42
154	CdS nanoparticles decorated hexagonal Fe ₂ O ₃ nanosheets with a Z-scheme photogenerated electron transfer path for improved visible-light photocatalytic hydrogen production. 2021 ,	4
153	Influence of selected reactive oxygen species on the photocatalytic activity of TiO ₂ /SiO ₂ composite coatings processed at low temperature. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 119685 ^{21.8}	7
152	Electron beam assistant controllable synthesis of 2D, 3D and 0D Cu _x O loaded on graphene for high-performance bifunctional photocatalytic and Fenton-like catalysts. 2021 , 118, 106663	
151	Photocatalytic degradation of tetracycline under visible light using TiO ₂ @sulfur doped carbon nitride nanocomposite synthesized via in-situ method. 2021 , 9, 105560	14
150	Modified g-C ₃ N ₄ derived from ionic liquid and urea for promoting visible-light photodegradation of organic pollutants. 2021 ,	0
149	Highly dispersed CeO ₂ nanoparticles with rich oxygen vacancies enhance photocatalytic performance of g-C ₃ N ₄ toward methyl orange degradation under visible light irradiation. 2021 ,	2

148	Direct sunlight-driven enhanced photocatalytic performance of VO nanorods/ graphene oxide nanocomposites for the degradation of Victoria blue dye. 2021 , 199, 111369		5
147	In situ fabrication of a novel S-scheme heterojunction photocatalysts Bi ₂ O ₃ /P-C ₃ N ₄ to enhance levofloxacin removal from water. 2021 , 268, 118691		19
146	Rational Design of Semiconductor Heterojunctions for Photocatalysis. 2021 , 27, 13306-13317		11
145	Enhanced photocatalytic conversion of (3D/2D) BiVO ₄ @Polypyrrole/g-C ₃ N ₄ ternary composites with Z-scheme band alignment for the Antibiotic removal. 2021 , 624, 126783		10
144	Designing heterointerface in BiOBr/g-C ₃ N ₄ photocatalyst to enhance visible-light-driven photocatalytic performance in water purification. 2021 , 624, 126796		5
143	Construction of Z-scheme g-CN / MnO /GO ternary photocatalyst with enhanced photodegradation ability of tetracycline hydrochloride under visible light radiation. 2021 , 200, 111427		20
142	Organic half-metal derived erythroid-like BiVO ₄ /hm-C ₄ N ₃ Z-Scheme photocatalyst: Reduction sites upgrading and rate-determining step modulation for overall CO ₂ and H ₂ O conversion. <i>Applied Catalysis B: Environmental</i> , 2021 , 295, 120277	21.8	10
141	Two-dimensional g-C ₃ N ₄ nanosheets supporting Co ₃ O ₄ -V ₂ O ₅ nanocomposite for remarkable photodegradation of mixed organic dyes based on a dual Z-scheme photocatalytic system. 2021 , 118, 108540		5
140	Efficient degradation of metronidazole antibiotic by TiO ₂ /Ag ₃ PO ₄ /g-C ₃ N ₄ ternary composite photocatalyst in a continuous flow-loop photoreactor. 2021 , 9, 105963		17
139	Photocatalytic performance of g-C ₃ N ₄ based nanocomposites for effective degradation/removal of dyes from water and wastewater. 2021 , 143, 111417		18
138	Z-scheme interface modification by MnV ₂ O ₆ for V ₂ O ₅ /g-C ₃ N ₄ heterostructure towards efficient visible photocatalytic activity. 2021 , 882, 160751		2
137	Selective graphene-like metal-free 2D nanomaterials and their composites for photocatalysis. 2021 , 284, 131254		9
136	Engineered defect-rich TiO/g-CN heterojunction: A visible light-driven photocatalyst for efficient degradation of phenolic wastewater. 2022 , 286, 131696		2
135	Graphene-based materials for metronidazole degradation: A comprehensive review. 2022 , 286, 131727		17
134	Intramolecular heterostructured carbon nitride with heptazine-triazine for enhanced photocatalytic hydrogen evolution. 2022 , 428, 132579		23
133	Encapsulation of spinel CuCoO hollow sphere in VO-decorated graphitic carbon nitride as high-efficiency double Z-type nanocomposite for levofloxacin photodegradation. 2022 , 423, 127090		12
132	Role of transition metal oxides in g-C ₃ N ₄ -based heterojunctions for photocatalysis and supercapacitors. 2022 , 64, 214-235		15
131	Construction of S-scheme 1D/2D rod-like g-CN/VO heterostructure with enhanced sonophotocatalytic degradation for Tetracycline antibiotics. 2022 , 287, 132380		3

- 130 Application of g-C₃N₄-based Materials for the Efficient Removal and Degradation of Pollutants in Water and Wastewater Treatment. **2021**, 95-119
- 129 Z-Schema-Photokatalysesysteme für die Kohlendioxidreduktion: Wo stehen wir heute?. **2020**, 132, 23092-23115 17
- 128 Z-Scheme Photocatalytic Systems for Carbon Dioxide Reduction: Where Are We Now?. **2020**, 59, 22894-22915 196
- 127 Construction of hybrid g-C₃N₄/CdO nanocomposite with improved photodegradation activity of RhB dye under visible light irradiation. **2020**, 31, 2921-2931 25
- 126 Sn-bridge type-II PCN/Sn/SnO heterojunction with enhanced photocatalytic activity. **2020**, 35, 115015 5
- 125 Recent Advances in Heteroatom Doped Graphitic Carbon Nitride (g-C₃N₄) and g-C₃N₄/Metal Oxide Composite Photocatalysts. **2020**, 24, 673-693 7
- 124 g-C₃N₄/CoNiFe-LDH Z-scheme heterojunction for efficient CO₂ photoreduction and MB dye photodegradation. **2021**, 11, 7727-7739 3
- 123 2D Carbon Materials as Photocatalysts. **2020**, 79-101
- 122 Fabrication of a stable light-activated and p/n type AgVO₃/V₂O₅-TiO₂ heterojunction for pollutants removal and photoelectrochemical water splitting. **2021**, 894, 162500 3
- 121 Metal free and sunlight driven g-C₃N₄ based photocatalyst using carbon quantum dots from Arabian dates: Green strategy for photodegradation of 2,4-dichlorophenol and selective detection of Fe³⁺. **2021**, 120, 108679 1
- 120 Succinate assisted synthesis of magnetically separable Fe₂O₃/g-C₃N₄ nano-heterostructure: A stable catalyst for environmental remediation. **2021**, 4, 100210 2
- 119 Surface modification of cellulose nanocrystals via SI-AGET ATRP and application in waterborne coating for removing of formaldehyde. **2022**, 277, 118851 2
- 118 Nano-flower like NiO modified BiOBr composites with direct Z-scheme: Improved visible light degradation activity for dyes. **2021**, 306, 122715 3
- 117 Bi₂WO₆/NH₂-MIL-88B(Fe) heterostructure: An efficient sunlight driven photocatalyst for the degradation of antibiotic tetracycline in aqueous medium. **2021**, 32, 4788-4788 7
- 116 Visible-light photocatalytic tetracycline degradation over nanodots-assembled N-ZrO₂-x nanostructures: Performance, degradation pathways and mechanistic insight. **2021**, 162582 4
- 115 CeO₂ quantum dots anchored g-C₃N₄: synthesis, characterization and photocatalytic performance. **2022**, 576, 151901 4
- 114 Fluorinated inverse opal carbon nitride combined with vanadium pentoxide as a Z-scheme photocatalyst with enhanced photocatalytic activity. **2021**, 1 1
- 113 Enhancing visible-light photocatalytic activity of hard-biotemplated TiO₂: From macrostructural morphology replication to microstructural building units design. **2021**, 898, 162886 5

112	NiCo/ZnO/g-C ₃ N ₄ Z-scheme heterojunction nanoparticles with enhanced photocatalytic degradation oxytetracycline. 2021 , 108738	3
111	Shape-controlled synthesis of CuS as a Fenton-like photocatalyst with high catalytic performance and stability. 2021 , 896, 163045	3
110	Z-Scheme Heterojunctions composed of 3D Graphene Aerogel/g-C ₃ N ₄ nanosheets/ Porous ZnO Nanospheres for the Efficient Photocatalytic Reduction of CO ₂ with H ₂ O under Visible Light Irradiation. <i>SSRN Electronic Journal</i> ,	1
109	Layered and porous (Al,C)-Ta ₂ O ₅ mesocrystals supported CdS quantum dots for high-efficiency photodegradation of organic contaminants. 2022 , 284, 120297	0
108	Efficient RhB degradation using MnFe ₂ O ₄ /g-C ₃ N ₄ composites under visible light irradiation. 2022 , 124, 111965	2
107	Construction of S-scheme heterojunction consisting of Zn _{0.5} Cd _{0.5} S with sulfur vacancies and Ni Co ₁ -(OH) ₂ for highly efficient photocatalytic H ₂ evolution. 2022 , 432, 134371	3
106	A Z-scheme Pd modified ZnIn ₂ S ₄ /P25 heterojunction for enhanced photocatalytic hydrogen evolution. 2022 , 579, 152003	2
105	Z-scheme 0D/3D p-Ag ₆ Si ₂ O ₇ nanoparticles-decorated n-Bi ₂ O ₂ CO ₃ micro-flowers heterojunction photocatalyst for efficient degradation of organic contaminants. 2022 , 899, 163150	0
104	Fe-doped g-C ₃ N ₄ derived from biowaste material with Fe-N bonds for enhanced synergistic effect between photocatalysis and Fenton degradation activity in a broad pH range. 2022 , 900, 163410	12
103	New insight to superoxide radical-mediated degradation of pentachlorophenate: Kinetic determination and theoretical calculations.. 2022 ,	3
102	A Comprehensive Review of Graphitic Carbon Nitride (g-CN)-Metal Oxide-Based Nanocomposites: Potential for Photocatalysis and Sensing.. 2022 , 12,	15
101	Preparation of g-C ₃ N ₄ Nanosheet/WO ₃ /Graphene Oxide Ternary Nanocomposite Z-scheme Photocatalyst with Enhanced Visible Light Photocatalytic Activity. 1	
100	Amorphization and defect engineering in constructing ternary composite Ag/PW ₁₀ V ₂ /am-TiO ₂ for enhanced photocatalytic nitrogen fixation. 2022 , 46, 1731-1740	0
99	Graphitic carbon nitride for photodegradation of dye Molecules. 2022 , 97-140	
98	Carbon nitride coupled with Ti ₃ C ₂ -Mxene derived amorphous Ti-peroxo heterojunction for photocatalytic degradation of rhodamine B and tetracycline. 2022 , 640, 128448	2
97	Nanocomposites for visible light photocatalysis. 2022 , 295-317	1
96	Preparation and photocatalytic performance study of dual Z-scheme Bi ₂ Zr ₂ O ₇ /g-C ₃ N ₄ /Ag ₃ PO ₄ for removal of antibiotics by visible-light. 2022 , 125, 349-349	0
95	Membraneless Photocatalytic Fuel Cell with Double Photoelectrodes for Simultaneous Electricity Generation and Pollutant Degradation. 2022 , 169, 026502	0

94	Investigation of heterojunction between Fe ₂ O ₃ /V ₂ O ₅ and g-C ₃ N ₄ ternary nanocomposites for upgraded photo-degradation performance of mixed pollutants: Efficient dual Z-scheme mechanism. 2022 , 902, 163705	2
93	Exploring and fine tuning the properties of one dimensional Bi ₂ S ₃ nanorods. 2022 , 902, 163785	1
92	Efficient photocatalytic degradation of tetracycline by Z-scheme CuSnO ₃ /g-C ₃ N ₄ heterojunctions coupling with H ₂ O ₂ under visible light irradiation.	
91	MOF Derived Hollow CuO/ZnO Nanocages for the Efficient and Rapid Degradation of Fluoroquinolones under Natural Sunlight. 2022 , 135119	1
90	The Construction of Yb/Er/Pr Triple-Doped Bi ₂ WO ₆ Superior Photocatalyst and the Regulation of Superoxide and Hydroxyl Radicals. <i>SSRN Electronic Journal</i> ,	1
89	Hydrothermal construction of WO ₃ .0.33H ₂ O/g-C ₃ N ₄ nanocomposites with enhanced adsorption and photocatalytic activity.	0
88	Effect of g-CN on biodiversity and structure of bacterial community in sediment of Xiangjiang River under tetracycline pressure.. 2022 , 31, 503-515	
87	Crystal Structure, Topology, DFT and Hirshfeld Surface Analysis of a Novel Charge Transfer Complex (L3) of Anthraquinone and 4-[[anthracen-9-yl)meth-yl] amino}-benzoic Acid (L2) Exhibiting Photocatalytic Properties: An Experimental and Theoretical Approach.. 2022 , 27,	2
86	Enhanced photocatalytic activity of novel Bi ₂ O ₃ @g-C ₃ N ₄ composites for the degradation of endocrine-disrupting benzophenone-3 in water under visible light. 2022 , 32,	0
85	The construction of Yb/Er/Pr triple-doped Bi ₂ WO ₆ superior photocatalyst and the regulation of superoxide and hydroxyl radicals. 2022 , 153311	0
84	Engineering ultrathin oxygen-doped g-C ₃ N ₄ nanosheet for boosted photoredox catalytic activity based on a facile thermal gas-shocking exfoliation effect. 2022 , 121038	5
83	Velvet-like carbon nitride as a solid-phase microextraction fiber coating for determination of polycyclic aromatic hydrocarbons by gas chromatography.. 2022 , 1671, 462993	0
82	Valorization of agro-industrial biowaste to green nanomaterials for wastewater treatment: Approaching green chemistry and circular economy principles.. 2022 , 311, 114806	4
81	Design and synthesis of g-C ₃ N ₄ /(Cu/TiO ₂) nanocomposite for the visible light photocatalytic degradation of endosulfan in aqueous solutions. 2022 , 1258, 132650	2
80	Carbon nitride-based Z-scheme heterojunctions for solar-driven advanced oxidation processes.. 2022 , 434, 128866	6
79	Surface Physicochemistry Modification and Structural Nanoarchitectures of g-C ₃ N ₄ for Wastewater Remediation and Solar Fuel Generation. 2100993	1
78	Emerging Surface, Bulk, and Interface Engineering Strategies on BiVO for Photoelectrochemical Water Splitting.. 2021 , e2105084	8
77	Review of Graphitic Carbon Nitride and Its Composite Catalysts for Selective Reduction of CO ₂ . 2021 , 4, 12845-12890	2

76	Advances in Z-scheme semiconductor photocatalysts for the photoelectrochemical applications: A review.		1
75	An innovative Z-scheme g-C3N4/ZnO/NiFe2O4 heterostructure for the concomitant photocatalytic removal and real-time monitoring of noxious fluoroquinolones. 2022 , 136441		0
74	Visible-light photocatalysis of Ag-doped graphitic carbon nitride for photodegradation of micropollutants in wastewater.. 2022 , 134626		1
73	Formation of face-contact interaction in 2D/2D/2D heterostructure ternary nanocomposites of g-C3N4/MoS2/GO for effective photocatalytic activity against the organic pollutants under the visible light irradiation. 1		0
72	Suppressing Glass-transition and Lithium-ions Migration in Hole Transport Layer by V ₂ O ₅ Decorated Graphite Carbon Nitride Nanosheets for Thermally Stable Perovskite Solar Cells.		1
71	Effective photocatalytic degradation of organic dyes using ZNC/rGO nanocomposite photocatalyst derived from ZIF-8/rGO thermolysis for water treatment. 2022 , 430, 114001		0
70	Preparation and Adsorption Properties of Lithium Chloride Intercalation Carbon Nitride. 2022 , 80, 494		0
69	Wet chemical synthesis of Gd ³⁺ doped vanadium Oxide/MXene based mesoporous hierarchical architectures as advanced supercapacitor material. <i>Ceramics International</i> , 2022 ,	5.1	0
68	Co-doping g-C3N4 with P and Mo for efficient photocatalytic tetracycline degradation under visible light. <i>Ceramics International</i> , 2022 ,	5.1	0
67	LiXO ₂ (X=Co, Rh, Ir) and solar light photocatalytic water splitting for hydrogen generation. 2022 , 279, 121410		1
66	Modulation of Z-Scheme Heterojunction Interface between Ultrathin C3N5 Nanosheets and Metal-Organic Framework for Boosting Photocatalysis.		5
65	In-Situ Fabricating V2O5/TiO2-Carbon Heterojunction from Ti3C2 MXene as Highly Active Visible-Light Photocatalyst. 2022 , 12, 1776		0
64	Z-scheme heterojunctions composed of 3D graphene aerogel/g-C3N4 nanosheets/porous ZnO nanospheres for the efficient photocatalytic reduction of CO ₂ with H ₂ O under visible light irradiation. 2022 , 165607		1
63	A Light-Permeable Solar Evaporator with Three-Dimensional Photocatalytic Sites to Boost Volatile-Organic-Compound Rejection for Water Purification.		0
62	Z-scheme silver-based p-n junction of AgFeO ₂ -modified Ag ₃ VO ₄ with enhanced photocatalytic performance. 2022 , 918, 165771		0
61	Degradation of Pollutants by Bi-Doped LaFeO ₃ /Cqds/Cn Z-Scheme Heterojunction Photocatalysts and Mechanism Study. <i>SSRN Electronic Journal</i> ,	1	
60	In-situ fabrication of 3D/1D p-NiO/p-ZrO ₂ heterojunction composites with enhanced photo-degradation activity towards methyl orange and benzimidazole. <i>Ceramics International</i> , 2022	5.1	0
59	Interfacial coupling effects in Fe ₂ O ₃ /g-C3N4 composite magnetically separable heterojunction with upgraded Z-scheme photocatalytic performance of mixed organic pollutant degradation. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 169, 110869	3.9	1

58	In-situ growth into jungle-like Bi ₂ O ₃ /Bi ₂ O ₂ CO ₃ heterostructures with concentration-controllable oxygen vacancy and ratio-tunable phase composition. <i>Materials Science in Semiconductor Processing</i> , 2022 , 150, 106893	4.3	○
57	Adsorption kinetics and photocatalytic properties of Cu ₂ ZnSnS ₄ @porous g-C ₃ N ₄ for contaminant removal. <i>Materials Science in Semiconductor Processing</i> , 2022 , 150, 106912	4.3	○
56	Green fabrication of h-BN/g-C ₃ N ₄ with efficient holes transfer towards highly improved photocatalytic CO ₂ reduction and RhB degradation. <i>Materials Characterization</i> , 2022 , 112165	3.9	○
55	Efficient Z-scheme g-C ₃ N ₄ /MoO ₃ heterojunction photocatalysts decorated with carbon quantum dots: improved visible-light absorption and charge separation.		○
54	Degradation of sulfamethazine using sludge-derived photocatalysts from dyeing industry and livestock farm: preparation and mechanism. 2022 , 129837		2
53	Fabrication of CuCo ₂ S ₄ yolk-shell spheres embedded with S-scheme V ₂ O ₅ -deposited on wrinkled g-C ₃ N ₄ for effective promotion of levofloxacin photodegradation. 2022 , 301, 122005		○
52	Crystallinity and lattice vacancies of different mesoporous g-C ₃ N ₄ for photodegradation of tetracycline and its cytotoxic implication. 2022 , 308, 136219		○
51	Charge separation accelerated in the interface of AgBr/layered double hydroxides Z-scheme heterojunction by insertion of polyaniline: Mechanism and performance. 2022 , 605, 154764		○
50	Z-scheme LaCoO ₃ /C ₃ N ₅ for efficient full-spectrum light-simulated solar photocatalytic hydrogen generation. 2022 , 12, 24026-24036		1
49	Construction of 3D flowers-like O-doped g-C ₃ N ₄ -[N-doped Nb ₂ O ₅ /C] heterostructure with direct S-scheme charge transport and highly improved visible-light-driven photocatalytic efficiency. 2022 , 43, 2637-2651		○
48	Preparation, Characterization, and Photocatalytic Performance of Ag/BiOBr _{0.85} I _{0.15} Nanocomposites. 2022 , 15, 6022		○
47	Investigation of photoelectrocatalytic degradation mechanism of methylene blue by Fe ₂ O ₃ nanorods array. 2022 ,		○
46	Nanocomposites of GaBr ₃ and BiBr ₃ Nanocrystals on BiOBr for the Photocatalytic Degradation of Dyes and Tetracycline. 2022 , 5, 15676-15691		○
45	Photocatalytic activation of Ag-doped SrSnO ₃ nanorods under visible light for reduction of p-nitrophenol and methylene blue mineralization.		○
44	Preparation of a Z-Type g-C ₃ N ₄ /(A-R)TiO ₂ Composite Catalyst and Its Mechanism for Degradation of Gaseous and Liquid Ammonia. 2022 , 23, 13131		○
43	Molybdenum Carbide-Based Photocatalysts: Synthesis, Functionalization, and Applications. 2022 , 38, 12739-12756		2
42	Synthesis and modifications of g-C ₃ N ₄ -based materials and their applications in wastewater pollutants removal. 2022 , 10, 108782		○
41	Coupled adsorption and photocatalysis of g-C ₃ N ₄ based composites: Material synthesis, mechanism, and environmental applications. 2023 , 453, 139755		4

- 40 Thermal and electronic states of exfoliated gC3N4-based nanocomposite with ZrO2 nanoparticles as a robust emissive layer. **2023**, 154, 107205 ○
- 39 A comparative review on adsorption and photocatalytic degradation of classified dyes with metal/non-metal-based modification of graphitic carbon nitride nanocomposites: Synthesis, mechanism, and affecting parameters. **2022**, 134967 ○
- 38 Novel CuO/Cu2(V2O7)/V2O5 composite membrane as an efficient catalyst for the activation of persulfate toward ciprofloxacin degradation. **2022**, 140201 ○
- 37 2D-layered Bi-functional direct solid-Z-scheme heterogenous vanadium and oxygen doped graphitic carbon nitride single layered nanosheet catalysis for detection and photocatalytic removal of toxic heavy metal. **2022**, 127065 ○
- 36 Novel Ag-bridged dual Z-scheme g-C3N4/BiOI/AgI plasmonic heterojunction: Exceptional photocatalytic activity towards tetracycline and the mechanism insight. **2022**, ○
- 35 Degradation of pollutants by Bi-doped LaFeO3/CQDs/CN Z-scheme heterojunction photocatalysts and mechanism study. **2022**, 130, 109555 ○
- 34 Hydrothermal synthesis of bifunctional Ag/MnO2 nanowires decorated with V2O5 nanorice: Photocatalytic and electrochemical impedance study for treatment of impurities present in waste water. **2023**, 135, 113274 ○
- 33 Visible light-induced Z-scheme V2O5/g-C3N4 heterojunction catalyzed cascade reaction of unactivated alkenes. **2023**, 44, 111-116 3
- 32 Prussian blue analogue in-situ derived hierarchical flower-like ZnS/FeS2 Z-scheme heterojunction for boosted visible-light responsive photocatalytic degradation of Rhodamine B with synergistic peroxydisulfate activation. ○
- 31 Synthesis of novel rare-earth cerium doped C3N4 nanocomposites for boosting photocatalytic H2 evolution. **2023**, 811, 140222 ○
- 30 Constructing Z-scheme 1D/2D heterojunction of ZnIn2S4 nanosheets decorated WO3 nanorods to enhance Cr(VI) photocatalytic reduction and rhodamine B degradation. **2023**, 313, 137351 ○
- 29 Toxic environmental drug nimesulide detection and degradation using the Bi-functional vanadium and phosphorous doped graphitic carbon nitride nanosheets. **2023**, 11, 109055 ○
- 28 A plasmonic Z-scheme Ag@AgCl/PDI photocatalyst for the efficient elimination of organic pollutants, antibiotic resistant bacteria and antibiotic resistance genes. **2023**, 324, 122220 1
- 27 Visible-Light-Active Vanadium and Copper Co-Doped gCN Nanosheets with Double Direct Z-Scheme Heterojunctions for Photocatalytic Removal of Monocrotophos Pesticide in Water. **2022**, 12, 1489 ○
- 26 Enhancement and Mechanism of Rhodamine B Decomposition in Cavitation-Assisted Plasma Treatment Combined with Fenton Reactions. **2022**, 12, 1491 ○
- 25 Microwave synthesized erbium vanadate nano-photocatalyst: Application for enhanced degradation of contaminated water. **2022**, ○
- 24 Facile synthesis of efficient MoS2 coupled graphitic carbon nitride heterojunction nanocomposites: Photocatalytic removal of methylene blue dye under solar light irradiation. ○
- 23 Charge Steering in Heterojunction Photocatalysis: General Principles, Design, Construction, and Challenges. 2200041 1

- 22 Construction of novel g-C₃N₄ coupled efficient Bi₂O₃ nanoparticles for improved Z-scheme photocatalytic removal of environmental wastewater contaminant: Insight mechanism. **2023**, 330, 117134 ○
- 21 Photo-Fenton enhanced degradation of antibiotic by Fe single-atom material: Mechanism, performance and adaptability. **2023**, 310, 123149 ○
- 20 V₂O₅ nanoribbons/N-deficient g-C₃N₄ heterostructure for enhanced visible-light photocatalytic performance. **2022**, ○
- 19 Photo-assisted thermal catalysis for methanol synthesis from methane oxidation on Cu-MOR/g-C₃N₄. **2023**, 340, 127525 ○
- 18 Rational construction of efficient ZnS quantum dots-supported g-C₃N₄ with Co₃O₄ heterostructure composite for bifunctional electrocatalytic hydrogen evolution reaction and environmental pollutant degradation. **2023**, 942, 169077 ○
- 17 Recent advances on g-C₃N₄-based Z-scheme photocatalysts for organic pollutant removal. ○
- 16 Photocatalytic conversion of MB dye using Co₃O₄ QDs-Ag₂MoO₄ as an active heterojunction photocatalyst under visible light irradiation. ○
- 15 Semiconductors-based Z-scheme materials for photoelectrochemical water splitting: A review. **2023**, 448, 142118 ○
- 14 Construction of g-C₃N₄ with N₂C-type defects/MoO₃ Z-scheme photocatalyst: Effective mineralization and toxicity reduction of microcystin-LR by multiple free radical degradation pathways. **2023**, 464, 142542 ○
- 13 Multifunctional hydrophobic bio-based foam toward highly efficient photothermal cleanup of high-viscosity crude oil spills, oil-water separation and aqueous organic pollutant elimination. **2023**, 667, 131431 ○
- 12 Construction of a bismuth-based perovskite direct Z-scheme heterojunction Au-Cs₃Bi₂Br₉/V₂O₅ for efficient photocatalytic CO₂ reduction. **2023**, 622, 156964 ○
- 11 Strategic growth engineering of Ag self-doped Ag₂CO₃ on MIL-53 MOF: A novel p-n heterostructure facilitates serendipitous charge migration and remarkable multimodal photocatalytic activity. **2023**, 35, 105842 ○
- 10 High-coordinated BiV/BiIV regulates photocatalytic selective activation of structural oxygen and self-generated H₂O₂ dominating an efficient synergistic sterilization. **2023**, 331, 122724 ○
- 9 Rapid photocatalytic degradation of tetrabromobisphenol A using synergistic p-n/Z-scheme dual heterojunction of black phosphorus nanosheets/FeSe₂/g-C₃N₄. **2023**, 311, 123359 ○
- 8 Novel 2D sulfur-doped V₂O₅ flakes and their applications in photoelectrochemical water oxidation and high-performance energy storage supercapacitors. **2023**, 461, 141935 ○
- 7 FeV₃O₈ Nanorods for Photodegrading Multiple Dyes. **2023**, 6, 3405-3415 ○
- 6 Visible Light-Induced Z-Scheme V₂O₅/g-C₃N₄ Heterojunction Catalyzed Cascade Reaction of Unactivated Alkenes. **2023**, 43, 786 ○
- 5 Ultrafine V₂O₅-anchored 3D N-doped carbon nanocomposite with augmented dual-enzyme mimetic activity for evaluating total antioxidant capacity. **2023**, 1252, 341072 ○

- 4 Facile synthesis of efficient MoS₂-coupled graphitic carbon nitride Z-scheme heterojunction nanocomposites: photocatalytic removal of methylene blue dye under solar light irradiation. ○
- 3 Vanadium Oxide: Phase Diagrams, Structures, Synthesis, and Applications. ○
- 2 Enhanced Photocatalytic Activities of Ag₂WO₄ Modified Ag₆Si₂O₇ through a Comprehensive p-n Heterojunction S-Scheme Process. **2023**, 13, 633 ○
- 1 Enhanced photocatalytic performance of heterostructure CNNS@Bi₂WO₆ photocatalysts towards degradation of organic pollution. **2023**, ○