

Review on DFT calculation of *s*-triazine-based

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Quenching induced hierarchical 3D porous g-C ₃ N ₄ with enhanced photocatalytic CO ₂ reduction activity. <i>Chemical Communications</i> , 2019, 55, 14023-14026.	2.2	83
2	Defect Engineering of Photocatalysts for Solar Energy Conversion. <i>Solar Rrl</i> , 2020, 4, 1900487.	3.1	85
3	Emerging Chemical Functionalization of g-C ₃ N ₄ : Covalent/Noncovalent Modifications and Applications. <i>ACS Nano</i> , 2020, 14, 12390-12469.	7.3	258
4	Soft and hard templates assisted synthesis mesoporous CuO/g-C ₃ N ₄ heterostructures for highly enhanced and accelerated Hg(II) photoreduction under visible light. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 223-233.	5.0	106
5	Photoreduction of CO ₂ in the presence of CH ₄ over g-C ₃ N ₄ modified with TiO ₂ nanoparticles at room temperature. <i>Green Energy and Environment</i> , 2021, 6, 938-951.	4.7	26
6	Transforming Photocatalytic g-C ₃ N ₄ /MoSe ₂ into a Direct Z-scheme System via Boron Doping: A Hybrid DFT Study. <i>ChemSusChem</i> , 2020, 13, 4985-4993.	3.6	33
7	Unraveling the Nature of Excellent Potassium Storage in Small Molecule Se@Peapod-Like N-Doped Carbon Nanofibers. <i>Advanced Materials</i> , 2020, 32, e2003879.	11.1	104
8	Mesoporous Polymeric Cyanamide-Triazole-Heptazine Photocatalysts for Highly Efficient Water Splitting. <i>Small</i> , 2020, 16, e2003162.	5.2	27
9	Overall Regulation of Exciton Dynamics by Defect Engineering in Polymeric Photocatalysts for Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24667-24676.	1.5	10
10	Fe-Doped g-C ₃ N ₄ : High-Performance Photocatalysts in Rhodamine B Decomposition. <i>Polymers</i> , 2020, 12, 1963.	2.0	36
11	g-C ₃ N ₄ -based photoelectrodes for photoelectrochemical water splitting: a review. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21474-21502.	5.2	111
12	Design of 2D-2D NiO/g-C ₃ N ₄ heterojunction photocatalysts for degradation of an emerging pollutant. <i>Research on Chemical Intermediates</i> , 2020, 46, 5281-5295.	1.3	61
13	Graphitic carbon nitride nanotubes: a new material for emerging applications. <i>RSC Advances</i> , 2020, 10, 34059-34087.	1.7	35
14	Functional group defect design in polymeric carbon nitride for photocatalytic application. <i>APL Materials</i> , 2020, 8, .	2.2	16
15	Two-photon Absorption in a Defect-engineered Carbon Nitride Polymer Drives Red-light Photocatalysis. <i>ChemCatChem</i> , 2020, 12, 4185-4197.	1.8	10
16	Enhanced Photocatalytic H ₂ -Production Activity of CdS Quantum Dots Using Sn ²⁺ as Cocatalyst under Visible Light Irradiation. <i>Small</i> , 2020, 16, e2001024.	5.2	124
17	Fabrication of a Sb ₂ MoO ₆ /g-C ₃ N ₄ Photocatalyst for Enhanced RhB Degradation and H ₂ Generation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13771-13778.	1.5	104
18	Design and application of active sites in g-C ₃ N ₄ -based photocatalysts. <i>Journal of Materials Science and Technology</i> , 2020, 56, 69-88.	5.6	211

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19	2D/2D Heterostructured Photocatalysts: An Emerging Platform for Artificial Photosynthesis. Solar Rrl, 2020, 4, 2000132.	3.1	94
20	Polymeric carbon nitrides and related metal-free materials for energy and environmental applications. Journal of Materials Chemistry A, 2020, 8, 11075-11116.	5.2	142
21	Heteroatom Doping: An Effective Way to Boost Sodium Ion Storage. Advanced Energy Materials, 2020, 10, 2000927.	10.2	309
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23	Accelerating Photocatalytic Hydrogen Production and Pollutant Degradation by Functionalizing g-C ₃ N ₄ With SnO ₂ . Frontiers in Chemistry, 2019, 7, 941.	1.8	67
24	Single Cu Atoms as Catalysts for Efficient Hydrazine Oxidation Reaction. ChemNanoMat, 2020, 6, 1474-1478.	1.5	7
25	Charge steering in ultrathin 2D nanomaterials for photocatalysis. Journal of Materials Chemistry A, 2020, 8, 12928-12950.	5.2	44
26	In situ fabrication of 2D/3D g-C ₃ N ₄ /Ti ₃ C ₂ (MXene) heterojunction for efficient visible-light photocatalytic hydrogen evolution. Applied Surface Science, 2020, 515, 145922.	3.1	123
27	Quantum-chemical calculations on graphitic carbon nitride (g-C ₃ N ₄) single-layer nanostructures: polymeric slab vs. quantum dot. Structural Chemistry, 2020, 31, 1137-1148.	1.0	22
28	Defect Engineering of Photocatalysts for Solar Energy Conversion. Solar Rrl, 2020, 4, 2070045.	3.1	4
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32	Triethanolamine-mediated photodeposition formation of amorphous Ni-P alloy for improved H ₂ -evolution activity of g-C ₃ N ₄ . Science China Materials, 2020, 63, 2215-2227.	3.5	53
33	H ₂ O molecule adsorption on s-triazine-based g-C ₃ N ₄ . Chinese Journal of Catalysis, 2021, 42, 115-122.	6.9	42
34	DFT-Guided Design and Fabrication of Carbon-Nitride-Based Materials for Energy Storage Devices: A Review. Nano-Micro Letters, 2021, 13, 13.	14.4	91
35	One-step construction of S-scheme heterojunctions of N-doped MoS ₂ and S-doped g-C ₃ N ₄ for enhanced photocatalytic hydrogen evolution. Chemical Engineering Journal, 2021, 404, 126498.	6.6	214
36	Solvothermal synthesis of various C ₃ N ₄ films on FTO substrates and their photocatalytic and sensing applications. Journal of the American Ceramic Society, 2021, 104, 722-732.	1.9	4

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37	Development of mesoporous Bi ₂ WO ₆ /g-C ₃ N ₄ heterojunctions via soft- and hard-template-assisted procedures for accelerated and reinforced photocatalytic reduction of mercuric cations under vis light irradiation. <i>Ceramics International</i> , 2021, 47, 5003-5012.	2.3	29
38	Robust Z-scheme g-C ₃ N ₄ /WO ₃ heterojunction photocatalysts with morphology control of WO ₃ for efficient degradation of phenolic pollutants. <i>Separation and Purification Technology</i> , 2021, 255, 117693.	3.9	58
39	Molten-based defect engineering polymeric carbon nitride quantum dots with enhanced hole extraction: An efficient photoelectrochemical cell for water oxidation. <i>Carbon</i> , 2021, 173, 339-349.	5.4	15
40	Advances in designing heterojunction photocatalytic materials. <i>Chinese Journal of Catalysis</i> , 2021, 42, 710-730.	6.9	182
41	Design of highly-active photocatalytic materials for solar fuel production. <i>Chemical Engineering Journal</i> , 2021, 421, 127732.	6.6	27
42	One-step synthesis of oxygen doped g-C ₃ N ₄ for enhanced visible-light photodegradation of Rhodamine B. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 151, 109900.	1.9	64
43	High surface area Nanoflakes of P-gC ₃ N ₄ photocatalyst loaded with Ag nanoparticle with intraplanar and interplanar charge separation for environmental remediation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 408, 113098.	2.0	4
44	Surface and interface engineering of two-dimensional bismuth-based photocatalysts for ambient molecule activation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 196-233.	5.2	50
45	Recent Advances in Opal/Inverted Opal Photonic Crystal Photocatalysts. <i>Solar Rrl</i> , 2021, 5, 2000541.	3.1	31
46	Dual-functional CuO/CN for highly efficient solar evaporation and water purification. <i>Separation and Purification Technology</i> , 2021, 254, 117611.	3.9	47
47	Design and preparation of a ternary MoC-QDs/C/MoS heterojunction for enhanced eosin Y-sensitized photocatalytic hydrogen evolution. <i>New Journal of Chemistry</i> , 2021, 45, 11905-11917.	1.4	22
48	Creation of carbon defects and in-plane holes with the assistance of NH ₄ Br to enhance the photocatalytic activity of g-C ₃ N ₄ . <i>Catalysis Science and Technology</i> , 0, , .	2.1	15
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50	Linking melem with conjugated Schiff-base bonds to boost photocatalytic efficiency of carbon nitride for overall water splitting. <i>Nanoscale</i> , 2021, 13, 9315-9321.	2.8	17
51	Whether planar or corrugated graphitic carbon nitride combined with titanium dioxide exhibits better photocatalytic performance?. <i>RSC Advances</i> , 2021, 11, 16351-16358.	1.7	6
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53	Design, Fabrication, and Mechanism of Nitrogen-Doped Graphene-Based Photocatalyst. <i>Advanced Materials</i> , 2021, 33, e2003521.	11.1	324
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55	Metal-doped carbon nitrides: synthesis, structure and applications. <i>New Journal of Chemistry</i> , 2021, 45, 11876-11892.	1.4	33
56	Porous Carbon Nitride Thin Strip: Precise Carbon Doping Regulating Delocalized π -Electron Induces Elevated Photocatalytic Hydrogen Evolution. <i>Small</i> , 2021, 17, e2006622.	5.2	73
57	2D materials and their heterostructures for photocatalytic water splitting and conversion of CO_2 to value chemicals and fuels. <i>JPhys Energy</i> , 2021, 3, 022003.	2.3	33
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59	Point-Defect Engineering: Leveraging Imperfections in Graphitic Carbon Nitride (g-C $_3\text{N}_4$) Photocatalysts toward Artificial Photosynthesis. <i>Small</i> , 2021, 17, e2006851.	5.2	139
60	Precisely Located C@g-C $_3\text{N}_4$ Nanorod for Efficient Visible Light Photocatalysis. <i>Kinetics and Catalysis</i> , 2021, 62, 375-386.	0.3	1
61	Wafer-scale growth of two-dimensional graphitic carbon nitride films. <i>Matter</i> , 2021, 4, 1625-1638.	5.0	52
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63	Mesoporous V_2O_5 /g-C $_3\text{N}_4$ Nanocomposites for Promoted Mercury (II) Ions Reduction Under Visible Light. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 4209-4221.	1.9	32
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65	Imide modification coupling with NH_2 -MIL-53(Fe) boosts the photocatalytic performance of graphitic carbon nitride for efficient water remediation. <i>Journal of Catalysis</i> , 2021, 399, 192-200.	3.1	26
66	Advanced activation of persulfate by polymeric g-C $_3\text{N}_4$ based photocatalysts for environmental remediation: A review. <i>Journal of Hazardous Materials</i> , 2021, 413, 125324.	6.5	293
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72	Accelerating interlayer charge transport of alkali metal-intercalated carbon nitride for enhanced photocatalytic hydrogen evolution. <i>Research on Chemical Intermediates</i> , 2021, 47, 5189-5202.	1.3	9

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73	Synthesis of CuCo ₂ O ₄ /BiVO ₄ composites as promise and efficient catalysts for 4-nitrophenol reduction in water: Experimental and theoretical study. Journal of Environmental Chemical Engineering, 2021, 9, 105408.	3.3	17
74	Tuning the strength of built-in electric field in 2D/2D g-C ₃ N ₄ /SnS ₂ and g-C ₃ N ₄ /ZrS ₂ S-scheme heterojunctions by nonmetal doping. Journal of Materiomics, 2021, 7, 988-997.	2.8	77
75	Multiscale structural engineering of carbon nitride for enhanced photocatalytic H ₂ O ₂ production. Nano Research, 2023, 16, 4524-4530.	5.8	21
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95	Self-standing Janus nanofiber heterostructure photocatalyst with hydrogen production and degradation of methylene blue. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1428-1441.	1.9	9
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101	Photocatalytic Regeneration of Activated Carbon by Combining g-C ₃ N ₄ Photocatalyst under Visible Light Irradiation. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 101007.	0.9	0
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103	Regulating Graphitic Carbon Nitride/Cocatalyst by an Amorphous MoS ₂ Conformal Multifunctional Intermediate Layer for Photocatalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2021, 4, 13288-13296.	2.5	11
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106	In silico study of remdesivir with and without ionic liquids having different cations using DFT calculations and molecular docking. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100328.	1.3	2
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108	Porous Nitrogen-Defected Carbon Nitride Derived from A Precursor Pretreatment Strategy for Efficient Photocatalytic Degradation and Hydrogen Evolution. <i>Langmuir</i> , 2022, 38, 828-837.	1.6	19

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109	Electronic and catalytic properties of carbon nitride derivatives tuned by building blocks and linkages. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 8761-8775.	3.8	5
110	A brief review of s-triazine graphitic carbon nitride. <i>Carbon Letters</i> , 2022, 32, 703-712.	3.3	15
111	Green synthesis of porous Cu ₂ ZnSnS ₄ /g-C ₃ N ₄ heterostructured for promoted photocatalytic degradation of trichloroethylene. <i>Ceramics International</i> , 2022, 48, 11736-11746.	2.3	9
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117	Constructing Pd-N interactions in Pd/g-C ₃ N ₄ to improve the charge dynamics for efficient photocatalytic hydrogen evolution. <i>Nano Research</i> , 2022, 15, 2928-2934.	5.8	18
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119	Photocatalytic Water-Splitting by Organic Conjugated Polymers: Opportunities and Challenges. <i>Chemical Record</i> , 2022, 22, e202100336.	2.9	24
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125	Scope and prospect of transition metal-based cocatalysts for visible light-driven photocatalytic hydrogen evolution with graphitic carbon nitride. <i>Coordination Chemistry Reviews</i> , 2022, 465, 214516.	9.5	34
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130	2D conjugated polymers: exploiting topological properties for the rational design of metal-free photocatalysts. Trends in Chemistry, 2022, 4, 792-806.	4.4	13
131	Probing interfacial charge transfer in heterojunctions for photocatalysis. Physical Chemistry Chemical Physics, 2022, 24, 19659-19672.	1.3	5
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137	Merits and Demerits of ODE Modeling of Physicochemical Systems for Numerical Simulations. Molecules, 2022, 27, 5860.	1.7	3
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