

Susanginee Nayak

List of Publications by Year in descending order

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130
papers

11,124
citations

19608

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30848

102
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131
all docs

131
docs citations

131
times ranked

7783
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy band modulation in $Cu_xP(x=3,1/2)/PbTiO_3$ via heterogeneous junction induced benign junction interface for enhanced photocatalytic H_2 evolution. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3893-3905.	3.8	10
2	Robust direct Z-scheme exciton transfer dynamics by architecting 3D BiOI MF-supported non-stoichiometric $Cu_{0.75}In_{0.25}S$ NC nanocomposite for co-catalyst-free photocatalytic hydrogen evolution. <i>RSC Advances</i> , 2022, 12, 1265-1277.	1.7	19
3	Robust charge carrier engineering via plasmonic effect and conjugated Γ -framework on Au loaded ZnCr-LDH/RGO photocatalyst towards H_2 and H_2O_2 production. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 559-576.	3.0	17
4	MOF derived nano-materials: A recent progress in strategic fabrication, characterization and mechanistic insight towards divergent photocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2022, 456, 214392.	9.5	86
5	Incorporating nitrogen vacancies in exfoliated B-doped $g-C_3N_4$ towards improved photocatalytic ciprofloxacin degradation and hydrogen evolution. <i>New Journal of Chemistry</i> , 2022, 46, 3493-3503.	1.4	36
6	Review on MXene/TiO ₂ nanohybrids for photocatalytic hydrogen production and pollutant degradations. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107211.	3.3	43
7	Development of $MgIn_2S_4$ Microflower-Embedded Exfoliated B-Doped $g-C_3N_4$ Nanosheets: π -n Heterojunction Photocatalysts toward Photocatalytic Water Reduction and H_2O_2 Production under Visible-Light Irradiation. <i>ACS Applied Energy Materials</i> , 2022, 5, 2838-2852.	2.5	53
8	A review on visible light driven spinel ferrite- $g-C_3N_4$ photocatalytic systems with enhanced solar light utilization. <i>Journal of Molecular Liquids</i> , 2022, 357, 119105.	2.3	51
9	Mechanistic insight the visible light driven hydrogen generation by plasmonic Au-Cu alloy mounted on TiO ₂ @B-doped $g-C_3N_4$ heterojunction photocatalyst. <i>Journal of Alloys and Compounds</i> , 2022, 909, 164754.	2.8	16
10	Rationally designed Ti ₃ C ₂ N, S-TiO ₂ / $g-C_3N_4$ ternary heterostructure with spatial charge separation for enhanced photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2022, 621, 254-266.	5.0	46
11	A Glimpse on the plethora of applications of prodigious material MXene. <i>Sustainable Materials and Technologies</i> , 2022, 32, e00439.	1.7	9
12	Superlative photoelectrochemical properties of 3D MgCr-LDH nanoparticles influencing towards photoinduced water splitting reactions. <i>Scientific Reports</i> , 2022, 12, .	1.6	23
13	CIS QDs nucleated on oxygen vacancy rich BiOI microplates: a hybrid photocatalyst with enhanced green energy production via mediator free Z-scheme dynamics. <i>Energy Advances</i> , 2022, 1, 422-437.	1.4	10
14	Tailoring the fusion effect of phase-engineered 1T/2H-MoS ₂ towards photocatalytic hydrogen evolution. <i>New Journal of Chemistry</i> , 2022, 46, 14922-14932.	1.4	7
15	Recent progress in first row transition metal Layered double hydroxide (LDH) based electrocatalysts towards water splitting: A review with insights on synthesis. <i>Coordination Chemistry Reviews</i> , 2022, 469, 214666.	9.5	125
16	Facile synthesis of fullerene modified ZnFe ₂ O ₄ composites towards photocatalytic H_2 evolution under visible light irradiation. <i>Materials Today: Proceedings</i> , 2021, 35, 203-206.	0.9	6
17	Efficient perovskite titanate photocatalysts for oxygen evolution reactions. <i>Materials Today: Proceedings</i> , 2021, 35, 133-136.	0.9	3
18	An amine functionalized ZnCr LDH/MCM-41 nanocomposite as efficient visible light induced photocatalyst for Cr(VI) reduction. <i>Materials Today: Proceedings</i> , 2021, 35, 252-257.	0.9	3

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19	Novel synthesis of boron nitride nanosheets from hexagonal boron nitride by modified aqueous phase bi-thermal exfoliation method. <i>Materials Today: Proceedings</i> , 2021, 35, 239-242.	0.9	8
20	Designing of a novel p-MoS ₂ @n-ZnIn ₂ S ₄ heterojunction based semiconducting photocatalyst towards photocatalytic HER. <i>Materials Today: Proceedings</i> , 2021, 35, 268-274.	0.9	7
21	Comparison of NiFe-LDH based heterostructure material towards photocatalytic rhodamine B and phenol degradation with water splitting reactions. <i>Materials Today: Proceedings</i> , 2021, 35, 243-246.	0.9	5
22	Phosphorous, boron and sulfur doped g-C ₃ N ₄ nanosheet: Synthesis, characterization, and comparative study towards photocatalytic hydrogen generation. <i>Materials Today: Proceedings</i> , 2021, 35, 258-262.	0.9	14
23	Noble metal loaded ZnCr-LDH based hybrid material for Suzuki coupling reactions: A comparison study on heterogeneous catalysis with photo catalysis. <i>Materials Today: Proceedings</i> , 2021, 35, 229-232.	0.9	5
24	Superior photocatalytic performance of Co Al LDH in the race of metal incorporated LDH: A comparison study. <i>Materials Today: Proceedings</i> , 2021, 35, 275-280.	0.9	12
25	Recent advances in anion doped g-C ₃ N ₄ photocatalysts: A review. <i>Carbon</i> , 2021, 172, 682-711.	5.4	339
26	Functional facet isotype junction and semiconductor/r-GO minor Schottky barrier tailored In ₂ S ₃ @r-GO@(040/110)-BiVO ₄ ternary hybrid. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 519-537.	5.0	27
27	A comparison study between novel ternary retrieval NiFe ₂ O ₄ @P-doped g-C ₃ N ₄ and Fe ₃ O ₄ @P-doped g-C ₃ N ₄ nanocomposite in the field of photocatalysis, H ₂ energy production and super capacitive property. <i>Materials Today: Proceedings</i> , 2021, 35, 281-288.	0.9	2
28	Discriminatory {040}-Reduction Facet/Ag ⁰ Schottky Barrier Coupled {040/110}-BiVO ₄ @Ag@CoAl-LDH Z-Scheme Isotype Heterostructure. <i>Inorganic Chemistry</i> , 2021, 60, 1698-1715.	1.9	36
29	Orienting Z scheme charge transfer in graphitic carbon nitride-based systems for photocatalytic energy and environmental applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10039-10080.	5.2	90
30	Recent progress on strategies for the preparation of 2D/2D MXene/g-C ₃ N ₄ nanocomposites for photocatalytic energy and environmental applications. <i>Catalysis Science and Technology</i> , 2021, 11, 1222-1248.	2.1	75
31	Growth of macroporous TiO ₂ on B-doped g-C ₃ N ₄ nanosheets: a Z-scheme photocatalyst for H ₂ O ₂ production and phenol oxidation under visible light. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1489-1499.	3.0	53
32	A review on g-C ₃ N ₄ /graphene nanocomposites: multifunctional roles of graphene in the nanohybrid photocatalyst toward photocatalytic applications. <i>Catalysis Science and Technology</i> , 2021, 11, 6018-6040.	2.1	23
33	Black titania an emerging photocatalyst: review highlighting the synthesis techniques and photocatalytic activity for hydrogen generation. <i>Nanoscale Advances</i> , 2021, 3, 5487-5524.	2.2	26
34	Highlights of the characterization techniques on inorganic, organic (COF) and hybrid (MOF) photocatalytic semiconductors. <i>Catalysis Science and Technology</i> , 2021, 11, 392-415.	2.1	50
35	Metal oxide integrated metal organic frameworks (MO@MOF): rational design, fabrication strategy, characterization and emerging photocatalytic applications. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1619-1636.	3.0	81
36	One step towards the 1T/2H-MoS ₂ mixed phase: a journey from synthesis to application. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2143-2172.	3.2	43

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37	Recent Advances on Alloyed Quantum Dots for Photocatalytic Hydrogen Evolution: A Mini-Review. <i>Energy & Fuels</i> , 2021, 35, 4670-4686.	2.5	34
38	Exfoliated Boron Nitride (e-BN) Tailored Exfoliated Graphitic Carbon Nitride (e-CN): An Improved Visible Light Mediated Photocatalytic Approach towards TCH Degradation and H ₂ Evolution. <i>Inorganic Chemistry</i> , 2021, 60, 5021-5033.	1.9	60
39	Aggrandizing the Photoactivity of ZnO Nanorods toward N ₂ Reduction and H ₂ Evolution through Facile <i>In Situ</i> Coupling with Ni _x P _y . <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6305-6317.	3.2	35
40	An insight to band-bending mechanism of polypyrrole sensitized B-rGO/ZnFe ₂ O ₄ p-n heterostructure with dynamic charge transfer for photocatalytic applications. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24484-24500.	3.8	35
41	Recent advances in wireless photofixation of dinitrogen to ammonia under the ambient condition: A review. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2021, 47, 100402.	5.6	22
42	Recent Progress in LDH@Graphene and Analogous Heterostructures for Highly Active and Stable Photocatalytic and Photoelectrochemical Water Splitting. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2211-2248.	1.7	51
43	Cerium-Based Metal-Organic Framework Nanorods Nucleated on CeO ₂ Nanosheets for Photocatalytic N ₂ Fixation and Water Oxidation. <i>ACS Applied Nano Materials</i> , 2021, 4, 9635-9652.	2.4	40
44	MgCr-LDH Nanoplatelets as Effective Oxidation Catalysts for Visible Light-Triggered Rhodamine B Degradation. <i>Catalysts</i> , 2021, 11, 1072.	1.6	23
45	HERs in an acidic medium over MoS ₂ nanosheets: from fundamentals to synthesis and the recent progress. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1952-1987.	2.5	30
46	A review on vertical and lateral heterostructures of semiconducting 2D-MoS ₂ with other 2D materials: a feasible perspective for energy conversion. <i>Nanoscale</i> , 2021, 13, 9908-9944.	2.8	53
47	A review on dimensionally controlled synthesis of g-C ₃ N ₄ and formation of an isotype heterojunction for photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2021, 11, 7505-7524.	2.1	19
48	Bimetallic co-effect of Au-Pd alloyed nanoparticles on mesoporous silica modified g-C ₃ N ₄ for single and simultaneous photocatalytic oxidation of phenol and reduction of hexavalent chromium. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 519-535.	5.0	72
49	Enhanced photocatalytic activities of polypyrrole sensitized zinc ferrite/graphitic carbon nitride n-n heterojunction towards ciprofloxacin degradation, hydrogen evolution and antibacterial studies. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 551-567.	5.0	156
50	Quantification of boron contents in BN/BCN composites by prompt gamma-ray neutron activation analysis utilizing thermal neutron beam at Dhruva reactor. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 325, 977-982.	0.7	0
51	Dynamic charge transfer through Fermi level equilibration in the p-CuFe ₂ O ₄ /n-NiAl LDH interface towards photocatalytic application. <i>Catalysis Science and Technology</i> , 2020, 10, 6285-6298.	2.1	28
52	Superactive NiFe-LDH/graphene nanocomposites as competent catalysts for water splitting reactions. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3805-3836.	3.0	85
53	Double charge carrier mechanism through 2D/2D interface-assisted ultrafast water reduction and antibiotic degradation over architectural S,P co-doped g-C ₃ N ₄ /ZnCr LDH photocatalyst. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3695-3717.	3.0	77
54	Constructing a Novel Surfactant-free MoS ₂ Nanosheet Modified MgIn ₂ S ₄ Marigold Microflower: An Efficient Visible-Light Driven 2D-2D p-n Heterojunction Photocatalyst toward HER and pH Regulated NRR. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4848-4862.	3.2	127

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55	Novel Magnetic Retrievable Visible-Light-Driven Ternary Fe ₃ O ₄ @NiFe ₂ O ₄ /Phosphorus-Doped g-C ₃ N ₄ Nanocomposite Photocatalyst with Significantly Enhanced Activity through a Double-Z-Scheme System. <i>Inorganic Chemistry</i> , 2020, 59, 4255-4272.	1.9	66
56	Efficient Photon Conversion via Double Charge Dynamics CeO ₂ @BiFeO ₃ p-n Heterojunction Photocatalyst Promising toward N ₂ Fixation and Phenol Cr(VI) Detoxification. <i>Inorganic Chemistry</i> , 2020, 59, 3856-3873.	1.9	98
57	Bandgap engineering <i>via</i> boron and sulphur doped carbon modified anatase TiO ₂ : a visible light stimulated photocatalyst for photo-fixation of N ₂ and TCH degradation. <i>Nanoscale Advances</i> , 2020, 2, 2004-2017.	2.2	43
58	{040/110} Facet Isotype Heterojunctions with Monoclinic Scheelite BiVO ₄ . <i>Inorganic Chemistry</i> , 2020, 59, 10328-10342.	1.9	44
59	UiO-66-NH ₂ Metal-Organic Frameworks with Embedded MoS ₂ Nanoflakes for Visible-Light-Mediated H ₂ and O ₂ Evolution. <i>Inorganic Chemistry</i> , 2020, 59, 9824-9837.	1.9	115
60	Adsorptive remediation of Cr (VI) from aqueous solution using cobalt ferrite: Kinetics and isotherm studies. <i>Materials Today: Proceedings</i> , 2020, 30, 289-293.	0.9	8
61	A review on TiO ₂ /g-C ₃ N ₄ visible-light- responsive photocatalysts for sustainable energy generation and environmental remediation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103896.	3.3	227
62	A Mechanistic Approach on Oxygen Vacancy-Engineered CeO ₂ Nanosheets Concocts over an Oyster Shell Manifesting Robust Photocatalytic Activity toward Water Oxidation. <i>ACS Omega</i> , 2020, 5, 9789-9805.	1.6	38
63	Resurrection of boron nitride in p-n type-II boron nitride/B-doped-g-C ₃ N ₄ nanocomposite during solid-state Z-scheme charge transfer path for the degradation of tetracycline hydrochloride. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 211-223.	5.0	152
64	Rational Design of a Coupled Confronting Z-Scheme System Toward Photocatalytic Refractory Pollutant Degradation and Water Splitting Reaction. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900370.	1.9	36
65	Surface-Plasmon-Resonance-Induced Photocatalysis by Core-Shell SiO ₂ @Ag NCs@Ag ₃ PO ₄ toward Water-Splitting and Phenol Oxidation Reactions. <i>Inorganic Chemistry</i> , 2019, 58, 9643-9654.	1.9	48
66	Serendipitous Assembly of Mixed Phase BiVO ₄ on B-Doped g-C ₃ N ₄ : An Appropriate p-n Heterojunction for Photocatalytic O ₂ evolution and Cr(VI) reduction. <i>Inorganic Chemistry</i> , 2019, 58, 12480-12491.	1.9	85
67	Construction of a Z-Scheme Dictated WO ₃ /X/Ag/ZnCr LDH Synergistically Visible Light-Induced Photocatalyst towards Tetracycline Degradation and H ₂ Evolution. <i>ACS Omega</i> , 2019, 4, 14721-14741.	1.6	129
68	Fabrication of a Au-loaded CaFe ₂ O ₄ /CoAl LDH p-n junction based architecture with stoichiometric H ₂ & O ₂ generation and Cr(VI) reduction under visible light. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 94-109.	3.0	73
69	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. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20923-20942.	4.0	263
70	Influence of Au/Pd alloy on an amine functionalised ZnCr LDH@MCM-41 nanocomposite: A visible light sensitive photocatalyst towards one-pot imine synthesis. <i>Catalysis Science and Technology</i> , 2019, 9, 2493-2513.	2.1	37
71	Facile construction of a novel NiFe ₂ O ₄ @P-doped g-C ₃ N ₄ nanocomposite with enhanced visible-light-driven photocatalytic activity. <i>Nanoscale Advances</i> , 2019, 1, 1864-1879.	2.2	77
72	HPW-Anchored UiO-66 Metal-Organic Framework: A Promising Photocatalyst Effective toward Tetracycline Hydrochloride Degradation and H ₂ Evolution via Z-Scheme Charge Dynamics. <i>Inorganic Chemistry</i> , 2019, 58, 4921-4934.	1.9	129

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73	A bimetallic Au@Ag nanoalloy mounted LDH/RGO nanocomposite: a promising catalyst effective towards a coupled system for the photoredox reactions converting benzyl alcohol to benzaldehyde and nitrobenzene to aniline under visible light. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7614-7627.	5.2	58
74	ZnFe ₂ O ₄ @Decorated Mesoporous Al ₂ O ₃ Modified MCM-41: A Solar-Active Photocatalyst for the Effective Removal of Phenol and Cr (VI) from Water. <i>ChemistrySelect</i> , 2019, 4, 1806-1819.	0.7	31
75	Deciphering Z-scheme Charge Transfer Dynamics in Heterostructure NiFe-LDH/N-rGO/g-C ₃ N ₄ Nanocomposite for Photocatalytic Pollutant Removal and Water Splitting Reactions. <i>Scientific Reports</i> , 2019, 9, 2458.	1.6	173
76	Constructive Interfacial Charge Carrier Separation of a p-CaFe ₂ O ₄ @n-ZnFe ₂ O ₄ Heterojunction Architect Photocatalyst toward Photodegradation of Antibiotics. <i>Inorganic Chemistry</i> , 2019, 58, 16592-16608.	1.9	60
77	An energy band compactable B-rGO/PbTiO ₃ p-n junction: a highly dynamic and durable photocatalyst for enhanced photocatalytic H ₂ evolution. <i>Nanoscale</i> , 2019, 11, 22328-22342.	2.8	68
78	Facile synthesis of exfoliated graphitic carbon nitride for photocatalytic degradation of ciprofloxacin under solar irradiation. <i>Journal of Materials Science</i> , 2019, 54, 5726-5742.	1.7	107
79	Synergistic effects of plasmon induced Ag@Ag ₃ VO ₄ /ZnCr LDH ternary heterostructures towards visible light responsive O ₂ evolution and phenol oxidation reactions. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 879-896.	3.0	91
80	Highly efficient charge transfer through a double Z-scheme mechanism by a Cu-promoted MoO ₃ /g-C ₃ N ₄ hybrid nanocomposite with superior electrochemical and photocatalytic performance. <i>Nanoscale</i> , 2018, 10, 5950-5964.	2.8	195
81	Kinetics, Isotherm, and Thermodynamic Study for Ultrafast Adsorption of Azo Dye by an Efficient Sorbent: Ternary Mg/(Al + Fe) Layered Double Hydroxides. <i>ACS Omega</i> , 2018, 3, 2532-2545.	1.6	54
82	Enhanced photo catalytic reduction of Cr (VI) over polymer-sensitized g-C ₃ N ₄ /ZnFe ₂ O ₄ and its synergism with phenol oxidation under visible light irradiation. <i>Catalysis Today</i> , 2018, 315, 52-66.	2.2	166
83	Synthesis, photoelectrochemical properties and solar light-induced photocatalytic activity of bismuth ferrite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	87
84	Fabrication of a Co(OH) ₂ /ZnCr LDH Heterojunction Photocatalyst with Enhanced Separation of Charge Carriers for Efficient Visible-Light-Driven H ₂ and O ₂ Evolution. <i>Inorganic Chemistry</i> , 2018, 57, 3840-3854.	1.9	162
85	An overview on Ag modified g-C ₃ N ₄ based nanostructured materials for energy and environmental applications. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1297-1312.	8.2	211
86	Facile Synthesis of CeO ₂ Nanosheets Decorated upon BiOI Microplate: A Surface Oxygen Vacancy Promoted Z-Scheme-Based 2D-2D Nanocomposite Photocatalyst with Enhanced Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 808-819.	1.5	123
87	Architecture of Biperovskite-Based LaCrO ₃ /PbTiO ₃ Heterojunction with a Strong Interface for Enhanced Charge Anti-recombination Process and Visible Light-Induced Photocatalytic Reactions. <i>Inorganic Chemistry</i> , 2018, 57, 15133-15148.	1.9	52
88	Synergistic Effects of Boron and Sulfur Co-doping into Graphitic Carbon Nitride Framework for Enhanced Photocatalytic Activity in Visible Light Driven Hydrogen Generation. <i>ACS Applied Energy Materials</i> , 2018, 1, 5936-5947.	2.5	162
89	Topotactic Transformation of Solvated MgCr-LDH Nanosheets to Highly Efficient Porous MgO/MgCr ₂ O ₄ Nanocomposite for Photocatalytic H ₂ Evolution. <i>Inorganic Chemistry</i> , 2018, 57, 8646-8661.	1.9	83
90	Fabrication of Hierarchical Two-Dimensional MoS ₂ Nanoflowers Decorated upon Cubic CaIn ₂ S ₄ Microflowers: Facile Approach To Construct Novel Metal-Free Heterojunction Semiconductors with Superior Charge Separation Efficiency. <i>Inorganic Chemistry</i> , 2018, 57, 10059-10071.	1.9	117

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91	Smart 2D-2D Nano-Composite Adsorbents of LDH-Carbonaceous Materials for the Removal of Aqueous Toxic Heavy Metal Ions: A Review. <i>Current Environmental Engineering</i> , 2018, 5, 20-34.	0.6	15
92	Dynamics of Charge-Transfer Behavior in a Plasmon-Induced Quasi-Type-II $\text{Ag@Ag}_3\text{PO}_4/\text{g-C}_3\text{N}_4/\text{NiFe}$ LDH Nanocomposites for Photocatalytic Cr(VI) Reduction and Phenol Oxidation. <i>ACS Omega</i> , 2018, 3, 7324-7343.	1.6	197
93	Cr(VI) remediation from aqueous environment through modified-TiO ₂ -mediated photocatalytic reduction. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1448-1470.	1.5	102
94	Visible Light Active Single-Crystal Nanorod/Needle-like MnO_2/RGO Nanocomposites for Efficient Photoreduction of Cr(VI). <i>Journal of Physical Chemistry C</i> , 2017, 121, 6039-6049.	1.5	63
95	Modification of BiOI Microplates with CdS QDs for Enhancing Stability, Optical Property, Electronic Behavior toward Rhodamine B Decolorization, and Photocatalytic Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4834-4849.	1.5	150
96	The enhanced photocatalytic activity of $\text{g-C}_3\text{N}_4/\text{LaFeO}_3$ for the water reduction reaction through a mediator free Z-scheme mechanism. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1022-1032.	3.0	99
97	A review of solar and visible light active oxo-bridged materials for energy and environment. <i>Catalysis Science and Technology</i> , 2017, 7, 2153-2164.	2.1	52
98	Enhanced visible light harnessing and oxygen vacancy promoted N, S co-doped CeO ₂ nanoparticle: a challenging photocatalyst for Cr(VI) reduction. <i>Catalysis Science and Technology</i> , 2017, 7, 2772-2781.	2.1	74
99	Exfoliated metal free homojunction photocatalyst prepared by a biomediated route for enhanced hydrogen evolution and Rhodamine B degradation. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1641-1653.	3.2	49
100	$\text{ZnCr}_2\text{O}_4/\text{ZnO/g-C}_3\text{N}_4$: A Triple-Junction Nanostructured Material for Effective Hydrogen and Oxygen Evolution under Visible Light. <i>Energy Technology</i> , 2017, 5, 1687-1701.	1.8	63
101	CuO/PbTiO_3 : A new-fangled p-n junction designed for the efficient absorption of visible light with augmented interfacial charge transfer, photoelectrochemical and photocatalytic activities. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20359-20373.	5.2	81
102	Nanocomposites of $\text{g-C}_3\text{N}_4$ with Carbonaceous π -conjugated/Polymeric Materials Towards Visible Light-Induced Photocatalysts. <i>Springer Series on Polymer and Composite Materials</i> , 2017, , 251-294.	0.5	4
103	Coupling of Crumpled-Type Novel MoS ₂ with CeO ₂ Nanoparticles: A Noble-Metal-Free p-n Heterojunction Composite for Visible Light Photocatalytic H ₂ Production. <i>ACS Omega</i> , 2017, 2, 3745-3753.	1.6	121
104	A Visible Light-Driven Zn/Cr-LaFeO ₃ Nanocomposite with Enhanced Photocatalytic Activity towards H ₂ Production and RhB Degradation. <i>ChemistrySelect</i> , 2017, 2, 10239-10248.	0.7	15
105	Enhanced Photocatalytic Activity of a Molybdate-Intercalated Iron-Based Layered Double Hydroxide. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 723-733.	1.0	33
106	An overview of the structural, textural and morphological modulations of $\text{g-C}_3\text{N}_4$ towards photocatalytic hydrogen production. <i>RSC Advances</i> , 2016, 6, 46929-46951.	1.7	255
107	Visible-light-induced water reduction reaction for efficient hydrogen production by N-doped $\text{In}_2\text{Ga}_2\text{ZnO}_7$ nanoparticle decorated on RGO sheets. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1582-1596.	3.0	15
108	The effect of sulfate pre-treatment to improve the deposition of Au-nanoparticles in a gold-modified sulfated $\text{g-C}_3\text{N}_4$ plasmonic photocatalyst towards visible light induced water reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28502-28514.	1.3	118

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109	Cu@CuO promoted g-C ₃ N ₄ /MCM-41: an efficient photocatalyst with tunable valence transition for visible light induced hydrogen generation. RSC Advances, 2016, 6, 112602-112613.	1.7	60
110	Nanostructured CeO ₂ /MgAl-LDH composite for visible light induced water reduction reaction. International Journal of Hydrogen Energy, 2016, 41, 21166-21180.	3.8	115
111	A review on the recent progress, challenges and perspective of layered double hydroxides as promising photocatalysts. Journal of Materials Chemistry A, 2016, 4, 10744-10766.	5.2	583
112	An overview of the modification of g-C ₃ N ₄ with high carbon containing materials for photocatalytic applications. Inorganic Chemistry Frontiers, 2016, 3, 336-347.	3.0	201
113	A facile in situ approach to fabricate N,S-TiO ₂ /g-C ₃ N ₄ nanocomposite with excellent activity for visible light induced water splitting for hydrogen evolution. Physical Chemistry Chemical Physics, 2015, 17, 8070-8077.	1.3	138
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