

# Susanginee Nayak

## List of Publications by Year in descending order

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130  
papers

11,124  
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19657  
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131  
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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Energy band modulation in $\text{Cu}_x\text{P}(x=3,1/2)/\text{PbTiO}_3$ via heterogeneous junction induced benign junction interface for enhanced photocatalytic $\text{H}_2$ evolution. International Journal of Hydrogen Energy, 2022, 47, 3893-3905.	7.1	10
2	Robust direct Z-scheme exciton transfer dynamics by architecting 3D BiOI MF-supported non-stoichiometric $\text{Cu}_{0.75}\text{In}_{0.25}\text{S}$ NC nanocomposite for co-catalyst-free photocatalytic hydrogen evolution. RSC Advances, 2022, 12, 1265-1277.	3.6	19
3	Robust charge carrier engineering <i>via</i> plasmonic effect and conjugated $\pi$ -framework on Au loaded ZnCr-LDH/RGO photocatalyst towards $\text{H}_2$ and $\text{H}_2\text{O}_2$ production. Inorganic Chemistry Frontiers, 2022, 9, 559-576.	6.0	17
4	MOF derived nano-materials: A recent progress in strategic fabrication, characterization and mechanistic insight towards divergent photocatalytic applications. Coordination Chemistry Reviews, 2022, 456, 214392.	18.8	86
5	Incorporating nitrogen vacancies in exfoliated B-doped $\text{g-C}_3\text{N}_4$ towards improved photocatalytic ciprofloxacin degradation and hydrogen evolution. New Journal of Chemistry, 2022, 46, 3493-3503.	2.8	36
6	Review on MXene/ $\text{TiO}_2$ nanohybrids for photocatalytic hydrogen production and pollutant degradations. Journal of Environmental Chemical Engineering, 2022, 10, 107211.	6.7	43
7	Development of $\text{MgIn}_2\text{S}_4$ Microflower-Embedded Exfoliated B-Doped $\text{g-C}_3\text{N}_4$ Nanosheets: $\pi$ -n Heterojunction Photocatalysts toward Photocatalytic Water Reduction and $\text{H}_2\text{O}_2$ Production under Visible-Light Irradiation. ACS Applied Energy Materials, 2022, 5, 2838-2852.	5.1	53
8	A review on visible light driven spinel ferrite- $\text{g-C}_3\text{N}_4$ photocatalytic systems with enhanced solar light utilization. Journal of Molecular Liquids, 2022, 357, 119105.	4.9	51
9	Mechanistic insight the visible light driven hydrogen generation by plasmonic Au-Cu alloy mounted on $\text{TiO}_2$ @B-doped $\text{g-C}_3\text{N}_4$ heterojunction photocatalyst. Journal of Alloys and Compounds, 2022, 909, 164754.	5.5	16
10	Rationally designed $\text{Ti}_3\text{C}_2\text{N}$ , S- $\text{TiO}_2/\text{g-C}_3\text{N}_4$ ternary heterostructure with spatial charge separation for enhanced photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2022, 621, 254-266.	9.4	46
11	A Glimpse on the plethora of applications of prodigious material MXene. Sustainable Materials and Technologies, 2022, 32, e00439.	3.3	9
12	Superlative photoelectrochemical properties of 3D MgCr-LDH nanoparticles influencing towards photoinduced water splitting reactions. Scientific Reports, 2022, 12, .	3.3	23
13	CIS QDs nucleated on oxygen vacancy rich BOI microplates: a hybrid photocatalyst with enhanced green energy production <i>via</i> mediator free Z-scheme dynamics. Energy Advances, 2022, 1, 422-437.	3.3	10
14	Tailoring the fusion effect of phase-engineered $1\text{T}/2\text{H-MoS}_2$ towards photocatalytic hydrogen evolution. New Journal of Chemistry, 2022, 46, 14922-14932.	2.8	7
15	Recent progress in first row transition metal Layered double hydroxide (LDH) based electrocatalysts towards water splitting: A review with insights on synthesis. Coordination Chemistry Reviews, 2022, 469, 214666.	18.8	125
16	Facile synthesis of fullerene modified $\text{ZnFe}_2\text{O}_4$ composites towards photocatalytic $\text{H}_2$ evolution under visible light irradiation. Materials Today: Proceedings, 2021, 35, 203-206.	1.8	6
17	Efficient perovskite titanate photocatalysts for oxygen evolution reactions. Materials Today: Proceedings, 2021, 35, 133-136.	1.8	3
18	An amine functionalized ZnCr LDH/MCM-41 nanocomposite as efficient visible light induced photocatalyst for Cr(VI) reduction. Materials Today: Proceedings, 2021, 35, 252-257.	1.8	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.	1.8	8
20	Designing of a novel p-MoS <sub>2</sub> @n-ZnIn <sub>2</sub> S <sub>4</sub> heterojunction based semiconducting photocatalyst towards photocatalytic HER. <i>Materials Today: Proceedings</i> , 2021, 35, 268-274.	1.8	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.	1.8	5
22	Phosphorous, boron and sulfur doped g-C <sub>3</sub> N <sub>4</sub> nanosheet: Synthesis, characterization, and comparative study towards photocatalytic hydrogen generation. <i>Materials Today: Proceedings</i> , 2021, 35, 258-262.	1.8	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.	1.8	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.	1.8	12
25	Recent advances in anion doped g-C <sub>3</sub> N <sub>4</sub> photocatalysts: A review. <i>Carbon</i> , 2021, 172, 682-711.	10.3	339
26	Functional facet isotype junction and semiconductor/r-GO minor Schottky barrier tailored In <sub>2</sub> S <sub>3</sub> @r-GO@(040/110)-BiVO <sub>4</sub> ternary hybrid. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 519-537.	9.4	27
27	A comparison study between novel ternary retrieval NiFe <sub>2</sub> O <sub>4</sub> @P-doped g-C <sub>3</sub> N <sub>4</sub> and Fe <sub>3</sub> O <sub>4</sub> @P-doped g-C <sub>3</sub> N <sub>4</sub> nanocomposite in the field of photocatalysis, H <sub>2</sub> energy production and super capacitive property. <i>Materials Today: Proceedings</i> , 2021, 35, 281-288.	1.8	2
28	Discriminatory {040}-Reduction Facet/Ag <sup>0</sup> Schottky Barrier Coupled {040/110}-BiVO <sub>4</sub> @Ag@CoAl-LDH Z-Scheme Isotype Heterostructure. <i>Inorganic Chemistry</i> , 2021, 60, 1698-1715.	4.0	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.	10.3	90
30	Recent progress on strategies for the preparation of 2D/2D MXene/g-C <sub>3</sub> N <sub>4</sub> nanocomposites for photocatalytic energy and environmental applications. <i>Catalysis Science and Technology</i> , 2021, 11, 1222-1248.	4.1	75
31	Growth of macroporous TiO <sub>2</sub> on B-doped g-C <sub>3</sub> N <sub>4</sub> nanosheets: a Z-scheme photocatalyst for H <sub>2</sub> O <sub>2</sub> production and phenol oxidation under visible light. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1489-1499.	6.0	53
32	A review on g-C <sub>3</sub> N <sub>4</sub> /graphene nanocomposites: multifunctional roles of graphene in the nanohybrid photocatalyst toward photocatalytic applications. <i>Catalysis Science and Technology</i> , 2021, 11, 6018-6040.	4.1	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.	4.6	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.	4.1	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.	6.0	81
36	One step towards the 1T/2H-MoS <sub>2</sub> mixed phase: a journey from synthesis to application. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2143-2172.	5.9	43

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37	Recent Advances on Alloyed Quantum Dots for Photocatalytic Hydrogen Evolution: A Mini-Review. <i>Energy &amp; Fuels</i> , 2021, 35, 4670-4686.	5.1	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 <sub>2</sub> Evolution. <i>Inorganic Chemistry</i> , 2021, 60, 5021-5033.	4.0	60
39	Aggrandizing the Photoactivity of ZnO Nanorods toward N <sub>2</sub> Reduction and H <sub>2</sub> Evolution through Facile <i>In Situ</i> Coupling with Ni <sub>3</sub> P. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6305-6317.	6.7	35
40	An insight to band-bending mechanism of polypyrrole sensitized B-rGO/ZnFe <sub>2</sub> O <sub>4</sub> p-n heterostructure with dynamic charge transfer for photocatalytic applications. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24484-24500.	7.1	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.	11.6	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.	3.3	51
43	Cerium-Based Metal-Organic Framework Nanorods Nucleated on CeO <sub>2</sub> Nanosheets for Photocatalytic N <sub>2</sub> Fixation and Water Oxidation. <i>ACS Applied Nano Materials</i> , 2021, 4, 9635-9652.	5.0	40
44	MgCr-LDH Nanoplatelets as Effective Oxidation Catalysts for Visible Light-Triggered Rhodamine B Degradation. <i>Catalysts</i> , 2021, 11, 1072.	3.5	23
45	HERs in an acidic medium over MoS <sub>2</sub> nanosheets: from fundamentals to synthesis and the recent progress. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1952-1987.	4.9	30
46	A review on vertical and lateral heterostructures of semiconducting 2D-MoS <sub>2</sub> with other 2D materials: a feasible perspective for energy conversion. <i>Nanoscale</i> , 2021, 13, 9908-9944.	5.6	53
47	A review on dimensionally controlled synthesis of g-C <sub>3</sub> N <sub>4</sub> and formation of an isotype heterojunction for photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2021, 11, 7505-7524.	4.1	19
48	Bimetallic co-effect of Au-Pd alloyed nanoparticles on mesoporous silica modified g-C <sub>3</sub> N <sub>4</sub> 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.	9.4	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.	9.4	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.	1.5	0
51	Dynamic charge transfer through Fermi level equilibration in the p-CuFe <sub>2</sub> O <sub>4</sub> /n-NiAl LDH interface towards photocatalytic application. <i>Catalysis Science and Technology</i> , 2020, 10, 6285-6298.	4.1	28
52	Superactive NiFe-LDH/graphene nanocomposites as competent catalysts for water splitting reactions. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3805-3836.	6.0	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 <sub>3</sub> N <sub>4</sub> /ZnCr LDH photocatalyst. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3695-3717.	6.0	77
54	Constructing a Novel Surfactant-free MoS <sub>2</sub> Nanosheet Modified MgIn <sub>2</sub> S <sub>4</sub> 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.	6.7	127

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55	Novel Magnetic Retrievable Visible-Light-Driven Ternary Fe <sub>3</sub> O <sub>4</sub> @NiFe <sub>2</sub> O <sub>4</sub> /Phosphorus-Doped g-C <sub>3</sub> N <sub>4</sub> Nanocomposite Photocatalyst with Significantly Enhanced Activity through a Double-Z-Scheme System. <i>Inorganic Chemistry</i> , 2020, 59, 4255-4272.	4.0	66
56	Efficient Photon Conversion via Double Charge Dynamics CeO <sub>2</sub> @BiFeO <sub>3</sub> p-n Heterojunction Photocatalyst Promising toward N <sub>2</sub> Fixation and Phenol Cr(VI) Detoxification. <i>Inorganic Chemistry</i> , 2020, 59, 3856-3873.	4.0	98
57	Bandgap engineering via boron and sulphur doped carbon modified anatase TiO <sub>2</sub> : a visible light stimulated photocatalyst for photo-fixation of N <sub>2</sub> and TCH degradation. <i>Nanoscale Advances</i> , 2020, 2, 2004-2017.	4.6	43
58	{040/110} Facet Isotype Heterojunctions with Monoclinic Scheelite BiVO <sub>4</sub> . <i>Inorganic Chemistry</i> , 2020, 59, 10328-10342.	4.0	44
59	UiO-66-NH <sub>2</sub> Metal-Organic Frameworks with Embedded MoS <sub>2</sub> Nanoflakes for Visible-Light-Mediated H <sub>2</sub> and O <sub>2</sub> Evolution. <i>Inorganic Chemistry</i> , 2020, 59, 9824-9837.	4.0	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.	1.8	8
61	A review on TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> visible-light- responsive photocatalysts for sustainable energy generation and environmental remediation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103896.	6.7	227
62	A Mechanistic Approach on Oxygen Vacancy-Engineered CeO <sub>2</sub> Nanosheets Concocts over an Oyster Shell Manifesting Robust Photocatalytic Activity toward Water Oxidation. <i>ACS Omega</i> , 2020, 5, 9789-9805.	3.5	38
63	Resurrection of boron nitride in p-n type-II boron nitride/B-doped-g-C <sub>3</sub> N <sub>4</sub> 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.	9.4	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.	3.7	36
65	Surface-Plasmon-Resonance-Induced Photocatalysis by Core-Shell SiO <sub>2</sub> @Ag NCs@Ag <sub>3</sub> PO <sub>4</sub> toward Water-Splitting and Phenol Oxidation Reactions. <i>Inorganic Chemistry</i> , 2019, 58, 9643-9654.	4.0	48
66	Serendipitous Assembly of Mixed Phase BiVO <sub>4</sub> on B-Doped g-C <sub>3</sub> N <sub>4</sub> : An Appropriate p-n Heterojunction for Photocatalytic O <sub>2</sub> evolution and Cr(VI) reduction. <i>Inorganic Chemistry</i> , 2019, 58, 12480-12491.	4.0	85
67	Construction of a Z-Scheme Dictated WO <sub>3</sub> /X/Ag/ZnCr LDH Synergistically Visible Light-Induced Photocatalyst towards Tetracycline Degradation and H <sub>2</sub> Evolution. <i>ACS Omega</i> , 2019, 4, 14721-14741.	3.5	129
68	Fabrication of a Au-loaded CaFe <sub>2</sub> O <sub>4</sub> /CoAl LDH p-n junction based architecture with stoichiometric H <sub>2</sub> & O <sub>2</sub> generation and Cr(VI) reduction under visible light. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 94-109.	6.0	73
69	Enhanced Photocatalytic Activities of RhB Degradation and H <sub>2</sub> Evolution from in Situ Formation of the Electrostatic Heterostructure MoS <sub>2</sub> /NiFe LDH Nanocomposite through the Z-Scheme Mechanism via p-n Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20923-20942.	8.0	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.	4.1	37
71	Facile construction of a novel NiFe <sub>2</sub> O <sub>4</sub> @P-doped g-C <sub>3</sub> N <sub>4</sub> nanocomposite with enhanced visible-light-driven photocatalytic activity. <i>Nanoscale Advances</i> , 2019, 1, 1864-1879.	4.6	77
72	HPW-Anchored UiO-66 Metal-Organic Framework: A Promising Photocatalyst Effective toward Tetracycline Hydrochloride Degradation and H <sub>2</sub> Evolution via Z-Scheme Charge Dynamics. <i>Inorganic Chemistry</i> , 2019, 58, 4921-4934.	4.0	129

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73	A bimetallic Au@Ag nanolloy 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.	10.3	58
74	ZnFe <sub>2</sub> O <sub>4</sub> @Decorated Mesoporous Al <sub>2</sub> O <sub>3</sub> 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.	1.5	31
75	Deciphering Z-scheme Charge Transfer Dynamics in Heterostructure NiFe-LDH/N-rGO/g-C <sub>3</sub> N <sub>4</sub> Nanocomposite for Photocatalytic Pollutant Removal and Water Splitting Reactions. <i>Scientific Reports</i> , 2019, 9, 2458.	3.3	173
76	Constructive Interfacial Charge Carrier Separation of a p-CaFe <sub>2</sub> O <sub>4</sub> @n-ZnFe <sub>2</sub> O <sub>4</sub> Heterojunction Architect Photocatalyst toward Photodegradation of Antibiotics. <i>Inorganic Chemistry</i> , 2019, 58, 16592-16608.	4.0	60
77	An energy band compactable B-rGO/PbTiO <sub>3</sub> p-n junction: a highly dynamic and durable photocatalyst for enhanced photocatalytic H <sub>2</sub> evolution. <i>Nanoscale</i> , 2019, 11, 22328-22342.	5.6	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.	3.7	107
79	Synergistic effects of plasmon induced Ag@Ag <sub>3</sub> VO <sub>4</sub> /ZnCr LDH ternary heterostructures towards visible light responsive O <sub>2</sub> evolution and phenol oxidation reactions. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 879-896.	6.0	91
80	Highly efficient charge transfer through a double Z-scheme mechanism by a Cu-promoted MoO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> hybrid nanocomposite with superior electrochemical and photocatalytic performance. <i>Nanoscale</i> , 2018, 10, 5950-5964.	5.6	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.	3.5	54
82	Enhanced photo catalytic reduction of Cr (VI) over polymer-sensitized g-C <sub>3</sub> N <sub>4</sub> /ZnFe <sub>2</sub> O <sub>4</sub> and its synergism with phenol oxidation under visible light irradiation. <i>Catalysis Today</i> , 2018, 315, 52-66.	4.4	166
83	Synthesis, photoelectrochemical properties and solar light-induced photocatalytic activity of bismuth ferrite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	87
84	Fabrication of a Co(OH) <sub>2</sub> /ZnCr LDH @p-n Heterojunction Photocatalyst with Enhanced Separation of Charge Carriers for Efficient Visible-Light-Driven H <sub>2</sub> and O <sub>2</sub> Evolution. <i>Inorganic Chemistry</i> , 2018, 57, 3840-3854.	4.0	162
85	An overview on Ag modified g-C <sub>3</sub> N <sub>4</sub> based nanostructured materials for energy and environmental applications. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1297-1312.	16.4	211
86	Facile Synthesis of CeO <sub>2</sub> 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.	3.1	123
87	Architecture of Biperovskite-Based LaCrO <sub>3</sub> /PbTiO <sub>3</sub> p-n 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.	4.0	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.	5.1	162
89	Topotactic Transformation of Solvated MgCr-LDH Nanosheets to Highly Efficient Porous MgO/MgCr <sub>2</sub> O <sub>4</sub> Nanocomposite for Photocatalytic H <sub>2</sub> Evolution. <i>Inorganic Chemistry</i> , 2018, 57, 8646-8661.	4.0	83
90	Fabrication of Hierarchical Two-Dimensional MoS <sub>2</sub> Nanoflowers Decorated upon Cubic CaIn <sub>2</sub> S <sub>4</sub> Microflowers: Facile Approach To Construct Novel Metal-Free p-n Heterojunction Semiconductors with Superior Charge Separation Efficiency. <i>Inorganic Chemistry</i> , 2018, 57, 10059-10071.	4.0	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.	3.5	197
93	Cr(VI) remediation from aqueous environment through modified- $\text{TiO}_2$ -mediated photocatalytic reduction. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1448-1470.	2.8	102
94	Visible Light Active Single-Crystal Nanorod/Needle-like $\text{Zn-MnO}_2/\text{RGO}$ Nanocomposites for Efficient Photoreduction of Cr(VI). <i>Journal of Physical Chemistry C</i> , 2017, 121, 6039-6049.	3.1	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.	3.1	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.	6.0	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.	4.1	52
98	Enhanced visible light harnessing and oxygen vacancy promoted N, S co-doped $\text{CeO}_2$ nanoparticle: a challenging photocatalyst for Cr(VI) reduction. <i>Catalysis Science and Technology</i> , 2017, 7, 2772-2781.	4.1	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.	5.9	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.	3.8	63
101	$\text{CuO/PbTiO}_3$ : A new-fangled $\text{p-n}$ 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.	10.3	81
102	Nanocomposites of $\text{g-C}_3\text{N}_4$ with Carbonaceous $\pi$ -conjugated/Polymeric Materials Towards Visible Light-Induced Photocatalysts. <i>Springer Series on Polymer and Composite Materials</i> , 2017, , 251-294.	0.7	4
103	Coupling of Crumpled-Type Novel $\text{MoS}_2$ with $\text{CeO}_2$ Nanoparticles: A Noble-Metal-Free $\text{p-n}$ Heterojunction Composite for Visible Light Photocatalytic $\text{H}_2$ Production. <i>ACS Omega</i> , 2017, 2, 3745-3753.	3.5	121
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