

Ashish Kumar

List of Publications by Year in Descending Order

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

36 papers	1,459 citations	21 h-index	38 g-index
38 ext. papers	2,090 ext. citations	6.5 avg, IF	5.81 L-index

#	Paper	IF	Citations
36	Upconversion nanomaterials for photocatalytic applications 2022 , 391-406		0
35	Tuning the surface and optical properties of graphitic carbon nitride by incorporation of alkali metals (Na, K, Cs and Rb): Effect on photocatalytic removal of organic pollutants. <i>Chemosphere</i> , 2022 , 287, 131988	8.4	9
34	Enhanced photocatalytic activity of two dimensional ternary nanocomposites of ZnO-BiWO ₃ -TiC MXene under natural sunlight irradiation. <i>Chemosphere</i> , 2022 , 287, 132119	8.4	20
33	Vacancy Engineering in Semiconductor Photocatalysts: Implications in Hydrogen Evolution and Nitrogen Fixation Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2009807	15.6	46
32	Controlling the kinetics of visible-light-induced photocatalytic performance of gold decorated graphitic carbon nitride nanocomposite using different proteins. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105147	6.8	10
31	Plasmon induced hot electron generation in two dimensional carbonaceous nanosheets decorated with Au nanostars: enhanced photocatalytic activity under visible light. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1448-1467	7.8	27
30	Sea urchin shaped ZnO coupled with MoS ₂ and polyaniline as highly efficient photocatalysts for organic pollutant decomposition and hydrogen evolution. <i>Ceramics International</i> , 2021 , 47, 10301-10313	5.1	17
29	Nanomaterials for Photocatalytic Decomposition of Endocrine Disruptors in Water 2021 , 299-320		1
28	Ultrathin Au/Ag Heterojunctions on Nanoarchitectonics Based Biomimetic Substrates for Dip Catalysis. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 1954-1966	3.2	8
27	Borophene and Boron-Based Nanosheets: Recent Advances in Synthesis Strategies and Applications in the Field of Environment and Energy. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100045	4.6	8
26	Recent Advances in Plasmonic Photocatalysis Based on TiO ₂ and Noble Metal Nanoparticles for Energy Conversion, Environmental Remediation, and Organic Synthesis. <i>Small</i> , 2021 , e2101638	11	39
25	Gram-scale synthesis of ZnS/NiO core-shell hierarchical nanostructures and their enhanced H ₂ production in crude glycerol and sulphide wastewater. <i>Environmental Research</i> , 2021 , 199, 111323	7.9	6
24	Atmospheric pressure conversion of carbon dioxide to cyclic carbonates using a metal-free Lewis acid-base bifunctional heterogeneous catalyst. <i>Journal of CO₂ Utilization</i> , 2021 , 51, 101646	7.6	23
23	Surfactant controlled metal oxide shell layer deposition for enhanced photocatalytic solar hydrogen generation: CdSe/TiO ₂ nanocomposite a case study. <i>Materials Letters</i> , 2021 , 298, 130025	3.3	4
22	Bioderived carbon supported bismuth molybdate nanocomposites as bifunctional catalysts for removal of organic pollutants: Adsorption and photocatalytic studies. <i>Materials Letters</i> , 2021 , 302, 130435	3.3	7
21	Unraveling the structural and morphological stability of oxygen vacancy engineered leaf-templated CaTiO ₃ towards photocatalytic H ₂ evolution and N ₂ fixation reactions. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17006-17018	13	27
20	Three-Dimensional Carbonaceous Aerogels Embedded with Rh-SrTiO ₃ for Enhanced Hydrogen Evolution Triggered by Efficient Charge Transfer and Light Absorption. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12134-12147	6.1	22

19	Two-dimensional MXene-based heterostructures for photocatalysis 2020 , 247-267		3
18	Interplay between Mesocrystals of CaTiO ₃ and Edge Sulfur Atom Enriched MoS ₂ on Reduced Graphene Oxide Nanosheets: Enhanced Photocatalytic Performance under Sunlight Irradiation. <i>ChemPhotoChem</i> , 2020 , 4, 427-444	3.3	47
17	Surface, optical and photocatalytic properties of Rb doped ZnO nanoparticles. <i>Applied Surface Science</i> , 2020 , 514, 145930	6.7	38
16	Nanoscale zinc oxide based heterojunctions as visible light active photocatalysts for hydrogen energy and environmental remediation. <i>Catalysis Reviews - Science and Engineering</i> , 2020 , 62, 346-405	12.6	49
15	Influence of different bismuth oxyhalides on the photocatalytic activity of graphitic carbon nitride: a comparative study under natural sunlight. <i>Materials Advances</i> , 2020 , 1, 1262-1272	3.3	29
14	Processable dispersions of photocatalytically active nanosheets derived from titanium diboride: self assembly into hydrogels and paper-like macrostructures. <i>Nanoscale</i> , 2020 , 12, 17121-17131	7.7	8
13	Perovskite Oxide Based Materials for Energy and Environment-Oriented Photocatalysis. <i>ACS Catalysis</i> , 2020 , 10, 10253-10315	13.1	162
12	Perovskite-Based Materials for Photocatalytic Environmental Remediation. <i>Environmental Chemistry for A Sustainable World</i> , 2019 , 139-165	0.8	9
11	Defect-Rich MoS ₂ Ultrathin Nanosheets-Coated Nitrogen-Doped ZnO Nanorod Heterostructures: An Insight into in-Situ-Generated ZnS for Enhanced Photocatalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5622-5634	6.1	62
10	Highly Efficient Visible Light Active 2D-2D Nanocomposites of N-ZnO-g-C ₃ N ₄ for Photocatalytic Degradation of Diverse Industrial Pollutants. <i>ChemistrySelect</i> , 2018 , 3, 1919-1932	1.8	63
9	Rational Design and Development of Lanthanide-Doped NaYF ₄ @CdS-Au-RGO as Quaternary Plasmonic Photocatalysts for Harnessing Visible-Near-Infrared Broadband Spectrum. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15565-15581	9.5	117
8	Towards utilization of full solar light spectrum using green plasmonic Au@TiO ₂ photocatalyst at ambient conditions. <i>Surfaces and Interfaces</i> , 2018 , 11, 98-106	4.1	43
7	Two dimensional N-doped ZnO-graphitic carbon nitride nanosheets heterojunctions with enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 3988-4002	6.7	95
6	Lanthanide Doped Near Infrared Active Upconversion Nanophosphors: Fundamental Concepts, Synthesis Strategies, and Technological Applications. <i>Small</i> , 2018 , 14, e1801304	11	62
5	Perovskite-structured CaTiO ₃ coupled with g-CN as a heterojunction photocatalyst for organic pollutant degradation. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 671-685	3	83
4	Two-dimensional carbon-based nanocomposites for photocatalytic energy generation and environmental remediation applications. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1571-1600	3	94
3	Recyclable, bifunctional composites of perovskite type N-CaTiO ₃ and reduced graphene oxide as an efficient adsorptive photocatalyst for environmental remediation. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2391-2404	7.8	89
2	Physico-chemical and Spectroscopic Approach to Analyse the Behaviour of Surface-Active Ionic Liquid and Conventional Surfactant in Aqueous Glycine. <i>Journal of Surfactants and Detergents</i> , 2017 , 20, 1129-1139	1.9	4

- 1 Efficient Electron Transfer across a ZnO-MoS₂-Reduced Graphene Oxide Heterojunction for Enhanced Sunlight-Driven Photocatalytic Hydrogen Evolution. *ChemSusChem*, **2017**, 10, 3588-3603 8.3 126