

List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8869527/ashish-kumar-publications-by-citations.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. 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.

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	Perovskite Oxide Based Materials for Energy and Environment-Oriented Photocatalysis. <i>ACS Catalysis</i> , <b>2020</b> , 10, 10253-10315	13.1	162
35	Efficient Electron Transfer across a ZnO-MoS <sub>2</sub> -Reduced Graphene Oxide Heterojunction for Enhanced Sunlight-Driven Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , <b>2017</b> , 10, 3588-3603	8.3	126
34	Rational Design and Development of Lanthanide-Doped NaYF <sub>4</sub> @CdS-Au-RGO as Quaternary Plasmonic Photocatalysts for Harnessing Visible-Near-Infrared Broadband Spectrum. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 15565-15581	9.5	117
33	Two dimensional N-doped ZnO-graphitic carbon nitride nanosheets heterojunctions with enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 3988-4002	6.7	95
32	Two-dimensional carbon-based nanocomposites for photocatalytic energy generation and environmental remediation applications. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 1571-1600	3	94
31	Recyclable, bifunctional composites of perovskite type N-CaTiO <sub>3</sub> and reduced graphene oxide as an efficient adsorptive photocatalyst for environmental remediation. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2391-2404	7.8	89
30	Perovskite-structured CaTiO <sub>3</sub> coupled with g-CN as a heterojunction photocatalyst for organic pollutant degradation. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 671-685	3	83
29	Highly Efficient Visible Light Active 2D-2D Nanocomposites of N-ZnO-g-C <sub>3</sub> N <sub>4</sub> for Photocatalytic Degradation of Diverse Industrial Pollutants. <i>ChemistrySelect</i> , <b>2018</b> , 3, 1919-1932	1.8	63
28	Lanthanide Doped Near Infrared Active Upconversion Nanophosphors: Fundamental Concepts, Synthesis Strategies, and Technological Applications. <i>Small</i> , <b>2018</b> , 14, e1801304	11	62
27	Defect-Rich MoS <sub>2</sub> 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> , <b>2019</b> , 2, 5622-5634	6.1	62
26	Nanoscale zinc oxide based heterojunctions as visible light active photocatalysts for hydrogen energy and environmental remediation. <i>Catalysis Reviews - Science and Engineering</i> , <b>2020</b> , 62, 346-405	12.6	49
25	Interplay between Mesocrystals of CaTiO <sub>3</sub> and Edge Sulfur Atom Enriched MoS <sub>2</sub> on Reduced Graphene Oxide Nanosheets: Enhanced Photocatalytic Performance under Sunlight Irradiation. <i>ChemPhotoChem</i> , <b>2020</b> , 4, 427-444	3.3	47
24	Vacancy Engineering in Semiconductor Photocatalysts: Implications in Hydrogen Evolution and Nitrogen Fixation Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009807	15.6	46
23	Towards utilization of full solar light spectrum using green plasmonic Au@TiO <sub>2</sub> photocatalyst at ambient conditions. <i>Surfaces and Interfaces</i> , <b>2018</b> , 11, 98-106	4.1	43
22	Recent Advances in Plasmonic Photocatalysis Based on TiO <sub>2</sub> and Noble Metal Nanoparticles for Energy Conversion, Environmental Remediation, and Organic Synthesis. <i>Small</i> , <b>2021</b> , e2101638	11	39
21	Surface, optical and photocatalytic properties of Rb doped ZnO nanoparticles. <i>Applied Surface Science</i> , <b>2020</b> , 514, 145930	6.7	38
20	Influence of different bismuth oxyhalides on the photocatalytic activity of graphitic carbon nitride: a comparative study under natural sunlight. <i>Materials Advances</i> , <b>2020</b> , 1, 1262-1272	3.3	29

19	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> , <b>2021</b> , 5, 1448-1467	7.8	27
18	Unraveling the structural and morphological stability of oxygen vacancy engineered leaf-templated CaTiO <sub>3</sub> towards photocatalytic H <sub>2</sub> evolution and N <sub>2</sub> fixation reactions. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17006-17018	13	27
17	Atmospheric pressure conversion of carbon dioxide to cyclic carbonates using a metal-free Lewis acid-base bifunctional heterogeneous catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2021</b> , 51, 101646	7.6	23
16	Three-Dimensional Carbonaceous Aerogels Embedded with Rh-SrTiO <sub>3</sub> for Enhanced Hydrogen Evolution Triggered by Efficient Charge Transfer and Light Absorption. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 12134-12147	6.1	22
15	Enhanced photocatalytic activity of two dimensional ternary nanocomposites of ZnO-BiWO <sub>3</sub> -TiC MXene under natural sunlight irradiation. <i>Chemosphere</i> , <b>2022</b> , 287, 132119	8.4	20
14	Sea urchin shaped ZnO coupled with MoS <sub>2</sub> and polyaniline as highly efficient photocatalysts for organic pollutant decomposition and hydrogen evolution. <i>Ceramics International</i> , <b>2021</b> , 47, 10301-10313 <sup>5.1</sup>	5.1	17
13	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> , <b>2021</b> , 9, 105147	6.8	10
12	Perovskite-Based Materials for Photocatalytic Environmental Remediation. <i>Environmental Chemistry for A Sustainable World</i> , <b>2019</b> , 139-165	0.8	9
11	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> , <b>2022</b> , 287, 131988	8.4	9
10	Processable dispersions of photocatalytically active nanosheets derived from titanium diboride: self assembly into hydrogels and paper-like macrostructures. <i>Nanoscale</i> , <b>2020</b> , 12, 17121-17131	7.7	8
9	Ultrathin Au/Ag Heterojunctions on Nanoarchitectonics Based Biomimetic Substrates for Dip Catalysis. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 31, 1954-1966	3.2	8
8	Borophene and Boron-Based Nanosheets: Recent Advances in Synthesis Strategies and Applications in the Field of Environment and Energy. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100045	4.6	8
7	Bioderived carbon supported bismuth molybdate nanocomposites as bifunctional catalysts for removal of organic pollutants: Adsorption and photocatalytic studies. <i>Materials Letters</i> , <b>2021</b> , 302, 130433 <sup>3.3</sup>	3.3	7
6	Gram-scale synthesis of ZnS/NiO core-shell hierarchical nanostructures and their enhanced H <sub>2</sub> production in crude glycerol and sulphide wastewater. <i>Environmental Research</i> , <b>2021</b> , 199, 111323	7.9	6
5	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> , <b>2017</b> , 20, 1129-1139	1.9	4
4	Surfactant controlled metal oxide shell layer deposition for enhanced photocatalytic solar hydrogen generation: CdSe/TiO <sub>2</sub> nanocomposite a case study. <i>Materials Letters</i> , <b>2021</b> , 298, 130025	3.3	4
3	Two-dimensional MXene-based heterostructures for photocatalysis <b>2020</b> , 247-267		3
2	Nanomaterials for Photocatalytic Decomposition of Endocrine Disruptors in Water <b>2021</b> , 299-320		1

1 Upconversion nanomaterials for photocatalytic applications **2022**, 391-406

o