

# Suneel Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

2,281  
citations

218677

26  
h-index

434195

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2565  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Efficient Electron Transfer across a ZnO@MoS <sub>2</sub> Reduced Graphene Oxide Heterojunction for Enhanced Sunlight-Driven Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2017, 10, 3588-3603.   | 6.8  | 162       |
| 2  | 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> , 2018, 10, 15565-15581.                            | 8.0  | 156       |
| 3  | N-doped ZnO@MoS <sub>2</sub> binary heterojunctions: the dual role of 2D MoS <sub>2</sub> in the enhancement of photostability and photocatalytic activity under visible light irradiation for tetracycline degradation. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1093-1106. | 5.9  | 125       |
| 4  | 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> , 2017, 1, 2391-2404.   | 5.9  | 124       |
| 5  | Synergetic effect of MoS <sub>2</sub> @RGO doping to enhance the photocatalytic performance of ZnO nanoparticles. <i>New Journal of Chemistry</i> , 2016, 40, 5185-5197.  | 2.8  | 123       |
| 6  | ZnO-graphene quantum dots heterojunctions for natural sunlight-driven photocatalytic environmental remediation. <i>Applied Surface Science</i> , 2018, 447, 802-815.  | 6.1  | 123       |
| 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.   | 7.1  | 123       |
| 8  | Two-dimensional carbon-based nanocomposites for photocatalytic energy generation and environmental remediation applications. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1571-1600.   | 2.8  | 119       |
| 9  | Perovskite-structured CaTiO <sub>3</sub> coupled with g-C <sub>3</sub> N <sub>4</sub> as a heterojunction photocatalyst for organic pollutant degradation. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 671-685.   | 2.8  | 116       |
| 10 | 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> , 2019, 2, 5622-5634.                               | 5.1  | 109       |
| 11 | Multifunctional Cu/Ag quantum dots on TiO <sub>2</sub> nanotubes as highly efficient photocatalysts for enhanced solar hydrogen evolution. <i>Journal of Catalysis</i> , 2017, 350, 226-239.  | 6.2  | 103       |
| 12 | Wide spectrum photocatalytic activity in lanthanide-doped upconversion nanophosphors coated with porous TiO <sub>2</sub> and Ag-Cu bimetallic nanoparticles. <i>Journal of Hazardous Materials</i> , 2019, 367, 694-705.  | 12.4 | 90        |
| 13 | 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.  | 12.9 | 90        |
| 14 | Highly Efficient Visible Light Active 2D@2D Nanocomposites of Na <sub>2</sub> ZnO <sub>4</sub> @g-C <sub>3</sub> N <sub>4</sub> for Photocatalytic Degradation of Diverse Industrial Pollutants. <i>ChemistrySelect</i> , 2018, 3, 1919-1932.                                       | 1.5  | 84        |
| 15 | Nanocomposite of MoS <sub>2</sub> -RGO as Facile, Heterogeneous, Recyclable, and Highly Efficient Green Catalyst for One-Pot Synthesis of Indole Alkaloids. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8551-8567.  | 6.7  | 82        |
| 16 | Sunlight driven photocatalytic reduction of 4-nitrophenol on Pt decorated ZnO-RGO nanoheterostructures. <i>Materials Chemistry and Physics</i> , 2018, 214, 364-376.  | 4.0  | 64        |
| 17 | A metal-organic framework based multifunctional catalytic platform for organic transformation and environmental remediation. <i>Dalton Transactions</i> , 2018, 47, 1488-1497.  | 3.3  | 58        |
| 18 | Enhancement of Luminescence Intensity in Red Emitting NaYF <sub>4</sub> :Yb/Ho/Mn Upconversion Nanophosphors by Variation of Reaction Parameters. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11783-11793.  | 3.1  | 57        |

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|----|---|-----|-----------|
| 19 | Towards utilization of full solar light spectrum using green plasmonic Au@TiO <sub>2</sub> photocatalyst at ambient conditions. <i>Surfaces and Interfaces</i> , 2018, 11, 98-106.  | 3.0 | 50        |
| 20 | Near-infrared driven photocatalytic performance of lanthanide-doped NaYF <sub>4</sub> @CdS core-shell nanostructures with enhanced upconversion properties. <i>Journal of Alloys and Compounds</i> , 2017, 724, 481-491.  | 5.5 | 49        |
| 21 | Fabrication of nanoheterostructures of boron doped ZnO-MoS <sub>2</sub> with enhanced photostability and photocatalytic activity for environmental remediation applications. <i>Vacuum</i> , 2019, 163, 88-98.            | 3.5 | 49        |
| 22 | Role of RGO support and irradiation source on the photocatalytic activity of CdS@ZnO semiconductor nanostructures. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1684-1697.                                       | 2.8 | 42        |
| 23 | 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> , 2021, 47, 10301-10313. | 4.8 | 42        |
| 24 | 2D@2D Nanocomposite of MoS <sub>2</sub> @Graphitic Carbon Nitride as Multifunctional Catalyst for Sustainable Synthesis of C <sub>3</sub> -Functionalized Indoles. <i>ChemCatChem</i> , 2018, 10, 3121-3132.              | 3.7 | 33        |
| 25 | Clustered Au on TiO <sub>2</sub> Snowman-Like Nanoassemblies for Photocatalytic Applications. <i>ChemistrySelect</i> , 2016, 1, 2963-2970.  | 1.5 | 28        |
| 26 | Homogeneously embedded Pt nanoclusters on amorphous titania matrix as highly efficient visible light active photocatalyst material. <i>Materials Chemistry and Physics</i> , 2016, 179, 129-136.                          | 4.0 | 26        |
| 27 | Cascade Reaction-Based Chemiresistive Array for Ethylene Sensing. <i>ACS Sensors</i> , 2020, 5, 1405-1410.  | 7.8 | 17        |
| 28 | Amorphous titania matrix impregnated with Ag nanoparticles as a highly efficient visible- and sunlight-active photocatalyst material. <i>Materials Technology</i> , 2017, 32, 461-471.                                    | 3.0 | 11        |
| 29 | Shape Selective Au-TiO <sub>2</sub> Nanocomposites for Photocatalytic Applications. <i>Materials Today: Proceedings</i> , 2016, 3, 1939-1948.   | 1.8 | 10        |
| 30 | Perovskite-Based Materials for Photocatalytic Environmental Remediation. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 139-165.  | 0.5 | 10        |
| 31 | Gold-carbonaceous materials based heterostructures for gas sensing applications. <i>RSC Advances</i> , 2021, 11, 13674-13699.   | 3.6 | 6         |