

# Abhinandan Kumar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1050171/publications.pdf>

Version: 2024-02-01

20  
papers

1,927  
citations

516710

16  
h-index

794594

19  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1473  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Recent advances in noble metal free doped graphitic carbon nitride based nanohybrids for photocatalysis of organic contaminants in water: A review. <i>Applied Materials Today</i> , 2019, 15, 494-524.   | 4.3  | 393       |
| 2  | C-, N-Vacancy defect engineered polymeric carbon nitride towards photocatalysis: viewpoints and challenges. <i>Journal of Materials Chemistry A</i> , 2021, 9, 111-153.   | 10.3 | 320       |
| 3  | Perspective and status of polymeric graphitic carbon nitride based Z-scheme photocatalytic systems for sustainable photocatalytic water purification. <i>Chemical Engineering Journal</i> , 2020, 391, 123496.  | 12.7 | 308       |
| 4  | Step-scheme heterojunction photocatalysts for solar energy, water splitting, CO <sub>2</sub> conversion, and bacterial inactivation: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2941-2966.  | 16.2 | 162       |
| 5  | Surface defect engineering of metal oxides photocatalyst for energy application and water treatment. <i>Journal of Materiomics</i> , 2021, 7, 388-418.  | 5.7  | 117       |
| 6  | Impact of COVID-19 on greenhouse gases emissions: A critical review. <i>Science of the Total Environment</i> , 2022, 806, 150349.   | 8.0  | 101       |
| 7  | Indium sulfide-based photocatalysts for hydrogen production and water cleaning: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1065-1095.   | 16.2 | 83        |
| 8  | An overview on polymeric carbon nitride assisted photocatalytic CO <sub>2</sub> reduction: Strategically manoeuvring solar to fuel conversion efficiency. <i>Chemical Engineering Science</i> , 2021, 230, 116219.  | 3.8  | 72        |
| 9  | CO <sub>2</sub> photoreduction into solar fuels via vacancy engineered bismuth-based photocatalysts: Selectivity and mechanistic insights. <i>Chemical Engineering Journal</i> , 2022, 439, 135563.   | 12.7 | 56        |
| 10 | Performance improvement strategies of CuWO <sub>4</sub> photocatalyst for hydrogen generation and pollutant degradation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104230.  | 6.7  | 48        |
| 11 | Artificial leaf for light-driven CO <sub>2</sub> reduction: Basic concepts, advanced structures and selective solar-to-chemical products. <i>Chemical Engineering Journal</i> , 2022, 430, 133031.  | 12.7 | 48        |
| 12 | Facile synthesis and extended visible light activity of oxygen and sulphur co-doped carbon nitride quantum dots modified Bi <sub>2</sub> MoO <sub>6</sub> for phenol degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 397, 112588. | 3.9  | 47        |
| 13 | An overview of converting reductive photocatalyst into all solid-state and direct Z-scheme system for water splitting and CO <sub>2</sub> reduction. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 93, 1-27.   | 5.8  | 43        |
| 14 | Phenolic compounds degradation: Insight into the role and evidence of oxygen vacancy defects engineering on nanomaterials. <i>Science of the Total Environment</i> , 2021, 800, 149410.   | 8.0  | 36        |
| 15 | Exploring recent advances in silver halides and graphitic carbon nitride-based photocatalyst for energy and environmental applications. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8271-8300.  | 4.9  | 33        |
| 16 | The practicality and prospects for disinfection control by photocatalysis during and post-pandemic: A critical review. <i>Environmental Research</i> , 2022, 209, 112814.   | 7.5  | 24        |
| 17 | Potential of graphene based photocatalyst for antiviral activity with emphasis on COVID-19: A review. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107527.  | 6.7  | 14        |
| 18 | Green aspects of photocatalysts during corona pandemic: a promising role for the deactivation of COVID-19 virus. <i>RSC Advances</i> , 2022, 12, 13609-13627.   | 3.6  | 11        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Graphitic Carbon Nitride-based New Advanced Materials for Photocatalytic Applications. Current Analytical Chemistry, 2021, 17, 150-165. | 1.2 | 6         |
| 20 | Recent progress in bismuth oxyhalides-based heterojunctions for CO2 photoreduction. , 2021, , 363-387.                                  |     | 3         |