

# Priyanka Verma

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

1,338  
citations

361296

20  
h-index

477173

29  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1541  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | New insights in establishing the structure-property relations of novel plasmonic nanostructures for clean energy applications. <i>EnergyChem</i> , 2022, 4, 100070.  | 10.1 | 13        |
| 2  | Plasmonic nanocatalysts for visible-NIR light induced hydrogen generation from storage materials. <i>Materials Advances</i> , 2021, 2, 880-906.  | 2.6  | 22        |
| 3  | PdAu Core-Shell Nanostructures as Visible-Light Responsive Plasmonic Photocatalysts. <i>Nanostructure Science and Technology</i> , 2021, , 261-274.  | 0.1  | 1         |
| 4  | Bimetallic PdAu Catalysts within Hierarchically Porous Architectures for Aerobic Oxidation of Benzyl Alcohol. <i>Nanomaterials</i> , 2021, 11, 350.  | 1.9  | 8         |
| 5  | Photocatalytically-driven H <sub>2</sub> production over Cu/TiO <sub>2</sub> catalysts decorated with multi-walled carbon nanotubes. <i>Catalysis Today</i> , 2021, 364, 182-189.  | 2.2  | 19        |
| 6  | Design and application of photocatalysts using porous materials. <i>Catalysis Reviews - Science and Engineering</i> , 2021, 63, 165-233.   | 5.7  | 21        |
| 7  | Rational Design and Application of Covalent Organic Frameworks for Solar Fuel Production. <i>Molecules</i> , 2021, 26, 4181.   | 1.7  | 8         |
| 8  | Recent strategies for enhancing the catalytic activity of CO <sub>2</sub> hydrogenation to formate/formic acid over Pd-based catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 54, 101765.                    | 3.3  | 27        |
| 9  | Visible-light-driven reduction of nitrostyrene utilizing plasmonic silver nanoparticle catalysts immobilized on oxide supports. <i>Catalysis Today</i> , 2020, 355, 620-626.   | 2.2  | 14        |
| 10 | Synthesis of plasmonic gold nanoparticles supported on morphology-controlled TiO <sub>2</sub> for aerobic alcohol oxidation. <i>Catalysis Today</i> , 2020, 352, 255-261.  | 2.2  | 32        |
| 11 | Advances in Catalytic Oxidation of Volatile Organic Compounds over Pd-Supported Catalysts: Recent Trends and Challenges. <i>Frontiers in Materials</i> , 2020, 7, .  | 1.2  | 36        |
| 12 | Recent Advances in Photocatalytic CO <sub>2</sub> Utilisation Over Multifunctional Metal-Organic Frameworks. <i>Catalysts</i> , 2020, 10, 1176.  | 1.6  | 20        |
| 13 | Single-Site Heterogeneous Catalysts and Photocatalysts for Emerging Applications. <i>ACS Symposium Series</i> , 2020, , 151-188.   | 0.5  | 3         |
| 14 | Mesoporous silica-supported Ag-based plasmonic photocatalysts. , 2020, , 353-368.  |      | 3         |
| 15 | Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. <i>Nanoscale</i> , 2020, 12, 11333-11363.   | 2.8  | 193       |
| 16 | Plasmonic catalysis of Ag nanoparticles deposited on CeO <sub>2</sub> modified mesoporous silica for the nitrostyrene reduction under light irradiation conditions. <i>Catalysis Today</i> , 2019, 324, 83-89.             | 2.2  | 35        |
| 17 | Design of Silver-Based Controlled Nanostructures for Plasmonic Catalysis under Visible Light Irradiation. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 19-29.  | 2.0  | 31        |
| 18 | Enhancement of plasmonic activity by Pt/Ag bimetallic nanocatalyst supported on mesoporous silica in the hydrogen production from hydrogen storage material. <i>Applied Catalysis B: Environmental</i> , 2018, 223, 10-15. | 10.8 | 97        |

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|----|---|------|-----------|
| 19 | Visible-light-enhanced catalytic activity of Ru nanoparticles over carbon modified g-C <sub>3</sub> N <sub>4</sub> . Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 327-333.   | 2.0  | 29        |
| 20 | Recent Progress on Black Phosphorus-Based Materials for Photocatalytic Water Splitting. Small Methods, 2018, 2, 1800212.  | 4.6  | 50        |
| 21 | Single-site and nano-confined photocatalysts designed in porous materials for environmental uses and solar fuels. Chemical Society Reviews, 2018, 47, 8072-8096.  | 18.7 | 176       |
| 22 | Synthesis of mesoporous silica-supported Ag nanorod-based bimetallic catalysts and investigation of their plasmonic activity under visible light irradiation. Catalysis Science and Technology, 2017, 7, 2551-2558.                         | 2.1  | 36        |
| 23 | Enhancement of Ag-Based Plasmonic Photocatalysis in Hydrogen Production from Ammonia Borane by the Assistance of Single-Site TiO <sub>2</sub> Moieties within a Silica Framework. Chemistry - A European Journal, 2017, 23, 3616-3622.      | 1.7  | 51        |
| 24 | Enhanced hydrogen production from ammonia borane using controlled plasmonic performance of Au nanoparticles deposited on TiO <sub>2</sub> . Journal of Materials Chemistry A, 2017, 5, 21883-21892.   | 5.2  | 75        |
| 25 | Mesoporous silica supported Pd/Ag bimetallic nanoparticles as a plasmonic catalyst for chemoselective hydrogenation of p-nitrostyrene under visible light irradiation. Journal of Chemical Sciences, 2017, 129, 1661-1669.                  | 0.7  | 16        |
| 26 | Morphology-controlled Pd nanocrystals as catalysts in tandem dehydrogenation-hydrogenation reactions. Journal of Chemical Sciences, 2017, 129, 1695-1703.   | 0.7  | 10        |
| 27 | (Invited) Design of Plasmonic Catalysts Efficient H <sub>2</sub> Production from Hydrogen Storage Molecules. ECS Meeting Abstracts, 2017, , .   | 0.0  | 0         |
| 28 | Pd/Ag and Pd/Au bimetallic nanocatalysts on mesoporous silica for plasmon-mediated enhanced catalytic activity under visible light irradiation. Journal of Materials Chemistry A, 2016, 4, 10142-10150.                                     | 5.2  | 95        |
| 29 | Bio-waste derived adsorbent material for methylene blue adsorption. Journal of the Taiwan Institute of Chemical Engineers, 2016, 58, 500-508.   | 2.7  | 61        |
| 30 | Color-Controlled Ag Nanoparticles and Nanorods within Confined Mesopores: Microwave-Assisted Rapid Synthesis and Application in Plasmonic Catalysis under Visible Light Irradiation. Chemistry - A European Journal, 2015, 21, 11885-11893. | 1.7  | 69        |
| 31 | Synthesis and characterization of a Pd/Ag bimetallic nanocatalyst on SBA-15 mesoporous silica as a plasmonic catalyst. Journal of Materials Chemistry A, 2015, 3, 18889-18897.  | 5.2  | 87        |