Priyanka Verma

List of Publications by Year
in descending order

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	Functionalized mesoporous SBA-15 silica: recent trends and catalytic applications. Nanoscale, 2020, 12, 11333-11363.	2.8	193
2	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
3	Enhancement of plasmonic activity by Pt/Ag bimetallic nanocatalyst supported on mesoporous silica in the hydrogen production from hydrogen storage material. Applied Catalysis B: Environmental, 2018, 223, 10-15.	10.8	97
4	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
5	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
6	Enhanced hydrogen production from ammonia borane using controlled plasmonic performance ofÂAu nanoparticles deposited on TiO₂. Journal of Materials Chemistry A, 2017, 5, 21883-21892.	5.2	75
7	Colorâ€Controlled Ag Nanoparticles and Nanorods within Confined Mesopores: Microwaveâ€Assisted Rapid Synthesis and Application in Plasmonic Catalysis under Visibleâ€Light Irradiation. Chemistry - A European Journal, 2015, 21, 11885-11893.	1.7	69
8	Bio-waste derived adsorbent material for methylene blue adsorption. Journal of the Taiwan Institute of Chemical Engineers, 2016, 58, 500-508.	2.7	61
9	Enhancement of Agâ€Based Plasmonic Photocatalysis in Hydrogen Production from Ammonia Borane by the Assistance of Singleâ€Site Tiâ€Oxide Moieties within a Silica Framework. Chemistry - A European Journal, 2017, 23, 3616-3622.	1.7	51
10	Recent Progress on Black Phosphorusâ€Based Materials for Photocatalytic Water Splitting. Small Methods, 2018, 2, 1800212.	4.6	50
11	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
12	Advances in Catalytic Oxidation of Volatile Organic Compounds over Pd-Supported Catalysts: Recent Trends and Challenges. Frontiers in Materials, 2020, 7, .	1.2	36
13	Plasmonic catalysis of Ag nanoparticles deposited on CeO2 modified mesoporous silica for the nitrostyrene reduction under light irradiation conditions. Catalysis Today, 2019, 324, 83-89.	2.2	35
14	Synthesis of plasmonic gold nanoparticles supported on morphology-controlled TiO2 for aerobic alcohol oxidation. Catalysis Today, 2020, 352, 255-261.	2.2	32
15	Design of Silver-Based Controlled Nanostructures for Plasmonic Catalysis under Visible Light Irradiation. Bulletin of the Chemical Society of Japan, 2019, 92, 19-29.	2.0	31
16	Visible-light-enhanced catalytic activity of Ru nanoparticles over carbon modified g-C3N4. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 327-333.	2.0	29
17	Recent strategies for enhancing the catalytic activity of CO2 hydrogenation to formate/formic acid over Pd-based catalyst. Journal of CO2 Utilization, 2021, 54, 101765.	3.3	27
18	Plasmonic nanocatalysts for visible-NIR light induced hydrogen generation from storage materials. Materials Advances, 2021, 2, 880-906.	2.6	22

#	Article	IF	Citations
19	Design and application of photocatalysts using porous materials. Catalysis Reviews - Science and Engineering, 2021, 63, 165-233.	5.7	21
20	Recent Advances in Photocatalytic CO2 Utilisation Over Multifunctional Metalâ€“Organic Frameworks. Catalysts, 2020, 10, 1176.	1.6	20
21	Photocatalytically-driven H2 production over Cu/TiO2 catalysts decorated with multi-walled carbon nanotubes. Catalysis Today, 2021, 364, 182-189.	2.2	19
22	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
23	Visible-light-driven reduction of nitrostyrene utilizing plasmonic silver nanoparticle catalysts immobilized on oxide supports. Catalysis Today, 2020, 355, 620-626.	2.2	14
24	New insights in establishing the structure-property relations of novel plasmonic nanostructures for clean energy applications. EnergyChem, 2022, 4, 100070.	10.1	13
25	Morphology-controlled Pd nanocrystals as catalysts in tandem dehydrogenation-hydrogenation reactions. Journal of Chemical Sciences, 2017, 129, 1695-1703.	0.7	10
26	Bimetallic PdAu Catalysts within Hierarchically Porous Architectures for Aerobic Oxidation of Benzyl Alcohol. Nanomaterials, 2021, 11, 350.	1.9	8
27	Rational Design and Application of Covalent Organic Frameworks for Solar Fuel Production. Molecules, 2021, 26, 4181.	1.7	8
28	Single-Site Heterogeneous Catalysts and Photocatalysts for Emerging Applications. ACS Symposium Series, 2020, , 151-188.	0.5	3
29	Mesoporous silicaâ€“supported Ag-based plasmonic photocatalysts. , 2020, , 353-368.		3
30	PdAu Coreâ€“Shell Nanostructures as Visible-Light Responsive Plasmonic Photocatalysts. Nanostructure Science and Technology, 2021, , 261-274.	0.1	1
31	(Invited) Design of Plasmonic Catalysts Efficient H2 Production from Hydrogen Storage Molecules. ECS Meeting Abstracts, 2017, , .	0.0	0