

Akansha mehta

List of Publications by Year in descending order

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36
papers

2,220
citations

377584

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425179

34
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all docs

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times ranked

3282
citing authors

#	ARTICLE	IF	CITATIONS
1	Plastic Waste Precursor-Derived Fluorescent Carbon and Construction of Ternary FCs@CuO@TiO ₂ Hybrid Photocatalyst for Hydrogen Production and Sensing Application. <i>Energies</i> , 2022, 15, 1734.	1.6	8
2	Upcycling of Pharmaceutical Glass into Highly Porous Ceramics: From Foams to Membranes. <i>Materials</i> , 2022, 15, 3784.	1.3	5
3	Waste-derived glass as a precursor for inorganic polymers: From foams to photocatalytic destructors for dye removal. <i>Ceramics International</i> , 2022, 48, 27631-27636.	2.3	3
4	Influence of exposed facets, morphology and hetero-interfaces of BiVO ₄ on photocatalytic water oxidation: A review. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21866-21888.	3.8	44
5	Visible-light-induced enhanced photocatalytic degradation of Rhodamine-B dye using Bi _x Sb _{2-x} S ₃ solid-solution photocatalysts. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 71-82.	5.0	36
6	Highly fluorescent carbon dots derived from <i>Mangifera indica</i> leaves for selective detection of metal ions. <i>Science of the Total Environment</i> , 2020, 720, 137604.	3.9	83
7	Band gap tuning and surface modification of carbon dots for sustainable environmental remediation and photocatalytic hydrogen production – A review. <i>Journal of Environmental Management</i> , 2019, 250, 109486.	3.8	211
8	Graphitic carbon nitride (g-C ₃ N ₄)-based metal-free photocatalysts for water splitting: A review. <i>Carbon</i> , 2019, 149, 693-721.	5.4	618
9	Natural polymer based composite membranes for water purification: a review. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1295-1310.	0.6	22
10	Amphiphilic carbon dots derived by cationic surfactant for selective and sensitive detection of metal ions. <i>Materials Science and Engineering C</i> , 2019, 95, 72-77.	3.8	32
11	Effect of Surfactants on the Structure and Adsorption Efficiency of Hydroxyapatite Nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 623-633.	0.9	7
12	Green synthesis of silver nanoparticles using sun dried tulsi leaves and its catalytic application for 4-Nitrophenol reduction. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1468-1474.	3.3	119
13	Effect of different plasmonic metals on photocatalytic degradation of volatile organic compounds (VOCs) by bentonite/M-TiO ₂ nanocomposites under UV/visible light. <i>Applied Clay Science</i> , 2018, 153, 144-153.	2.6	34
14	Biosynthesis of tin oxide nanoparticles using <i>Psidium Guajava</i> leave extract for photocatalytic dye degradation under sunlight. <i>Materials Letters</i> , 2018, 215, 121-124.	1.3	112
15	Optical Detection of Thiol Drugs by Core-Shell Luminous Carbon Dots-Gold Nanoparticles System. <i>Plasmonics</i> , 2018, 13, 2239-2248.	1.8	12
16	4-Nitrophenol reduction catalysed by Au-Ag bimetallic nanoparticles supported on LDH: Homogeneous vs. heterogeneous catalysis. <i>Applied Clay Science</i> , 2018, 151, 1-9.	2.6	154
17	A sensitive turn on fluorescent probe for detection of biothiols using MnO ₂ @carbon dots nanocomposites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 411-419.	2.0	42
18	Clay supported TiO ₂ nanoparticles for photocatalytic degradation of environmental pollutants: A review. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 6088-6107.	3.3	124

#	ARTICLE	IF	CITATIONS
19	Fluorescent carbon dot decorated MnO ₂ nanorods for complete photomineralization of phenol from water. Environmental Science: Water Research and Technology, 2018, 4, 2012-2020.	1.2	12
20	Implementation of a logic gate by chemically induced nitrogen and oxygen rich C-dots for the selective detection of fluoride ions. New Journal of Chemistry, 2018, 42, 12162-12171.	1.4	15
21	Electrode materials for lithium-ion batteries. Materials Science for Energy Technologies, 2018, 1, 182-187.	1.0	89
22	A comparative study on the effect of different precursors for synthesis and efficient photocatalytic activity of g-C ₃ N ₄ /TiO ₂ /bentonite nanocomposites. Journal of Materials Science, 2018, 53, 13126-13142.	1.7	32
23	Effect of g-C ₃ N ₄ loading on TiO ₂ /Bentonite nanocomposites for efficient heterogeneous photocatalytic degradation of industrial dye under visible light. Journal of Alloys and Compounds, 2018, 764, 406-415.	2.8	74
24	Carbon quantum dots/TiO ₂ nanocomposite for sensing of toxic metals and photodetoxification of dyes with kill waste by waste concept. Materials and Design, 2018, 155, 485-493.	3.3	30
25	Variation of surface area of silica monoliths by controlling ionic character/chain length of surfactants and polymers. Materials Letters, 2017, 194, 213-216.	1.3	14
26	Controlled photocatalytic hydrolysis of nitriles to amides by mesoporous MnO ₂ nanoparticles fabricated by mixed surfactant mediated approach. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 343, 1-6.	2.0	17
27	Enhanced photocatalytic water splitting by gold carbon dot core shell nanocatalyst under visible/sunlight. New Journal of Chemistry, 2017, 41, 4573-4581.	1.4	42
28	Impact of Ag nanoparticles on photomineralization of chlorobenzene by TiO ₂ /bentonite nanocomposite. Journal of Environmental Chemical Engineering, 2017, 5, 644-651.	3.3	41
29	Effect of Au content on the enhanced photocatalytic efficiency of mesoporous Au/TiO ₂ nanocomposites in UV and sunlight. Gold Bulletin, 2017, 50, 33-41.	1.1	16
30	Enhanced heterogeneous photodegradation of VOC and dye using microwave synthesized TiO ₂ /Clay nanocomposites: A comparison study of different type of clays. Journal of Alloys and Compounds, 2017, 694, 574-580.	2.8	85
31	Enhanced catalytic and antibacterial activity of nanocasted mesoporous silver monoliths: kinetic and thermodynamic studies. Journal of Sol-Gel Science and Technology, 2017, 81, 704-710.	1.1	9
32	Microwave Treated Bentonite Clay Based TiO ₂ Composites: An Efficient Photocatalyst for Rapid Degradation of Methylene Blue. Journal of Nanoscience and Nanotechnology, 2017, 17, 1149-1155.	0.9	15
33	Effect of silica/titania ratio on enhanced photooxidation of industrial hazardous materials by microwave treated mesoporous SBA-15/TiO ₂ nanocomposites. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	37
34	Gold Nanoparticles Grafted Mesoporous Silica: A Highly Efficient and Recyclable Heterogeneous Catalyst for Reduction of 4-Nitrophenol. Nano, 2016, 11, 1650104.	0.5	26
35	Mesoporous Au/TiO ₂ nanocomposite photocatalysts with enhanced UV and visible light photocatalytic activity. , 2016, , .		0
36	Synthesis of mesoporous Au/TiO ₂ nanocomposites by HDP method: An efficient reusable photocatalyst for dye degradation under UV & sunlight. , 2016, , .		0