

# Akansha mehta

## List of Publications by Year in descending order

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36  
papers

2,220  
citations

331670

21  
h-index

377865

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )-based metal-free photocatalysts for water splitting: A review. Carbon, 2019, 149, 693-721.	10.3	618
2	Band gap tuning and surface modification of carbon dots for sustainable environmental remediation and photocatalytic hydrogen production – A review. Journal of Environmental Management, 2019, 250, 109486.	7.8	211
3	4-Nitrophenol reduction catalysed by Au-Ag bimetallic nanoparticles supported on LDH: Homogeneous vs. heterogeneous catalysis. Applied Clay Science, 2018, 151, 1-9.	5.2	154
4	Clay supported TiO <sub>2</sub> nanoparticles for photocatalytic degradation of environmental pollutants: A review. Journal of Environmental Chemical Engineering, 2018, 6, 6088-6107.	6.7	124
5	Green synthesis of silver nanoparticles using sun dried tulsi leaves and its catalytic application for 4-Nitrophenol reduction. Journal of Environmental Chemical Engineering, 2018, 6, 1468-1474.	6.7	119
6	Biosynthesis of tin oxide nanoparticles using Psidium Guajava leave extract for photocatalytic dye degradation under sunlight. Materials Letters, 2018, 215, 121-124.	2.6	112
7	Electrode materials for lithium-ion batteries. Materials Science for Energy Technologies, 2018, 1, 182-187.	1.8	89
8	Enhanced heterogeneous photodegradation of VOC and dye using microwave synthesized TiO <sub>2</sub> /Clay nanocomposites: A comparison study of different type of clays. Journal of Alloys and Compounds, 2017, 694, 574-580.	5.5	85
9	Highly fluorescent carbon dots derived from Mangifera indica leaves for selective detection of metal ions. Science of the Total Environment, 2020, 720, 137604.	8.0	83
10	Effect of g-C <sub>3</sub> N <sub>4</sub> loading on TiO <sub>2</sub> /Bentonite nanocomposites for efficient heterogeneous photocatalytic degradation of industrial dye under visible light. Journal of Alloys and Compounds, 2018, 764, 406-415.	5.5	74
11	Influence of exposed facets, morphology and hetero-interfaces of BiVO <sub>4</sub> on photocatalytic water oxidation: A review. International Journal of Hydrogen Energy, 2021, 46, 21866-21888.	7.1	44
12	Enhanced photocatalytic water splitting by gold carbon dot core shell nanocatalyst under visible/sunlight. New Journal of Chemistry, 2017, 41, 4573-4581.	2.8	42
13	A sensitive turn on fluorescent probe for detection of biothiols using MnO <sub>2</sub> @carbon dots nanocomposites. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 411-419.	3.9	42
14	Impact of Ag nanoparticles on photomineralization of chlorobenzene by TiO <sub>2</sub> /bentonite nanocomposite. Journal of Environmental Chemical Engineering, 2017, 5, 644-651.	6.7	41
15	Effect of silica/titania ratio on enhanced photooxidation of industrial hazardous materials by microwave treated mesoporous SBA-15/TiO <sub>2</sub> nanocomposites. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	37
16	Visible-light-induced enhanced photocatalytic degradation of Rhodamine-B dye using Bi <sub>2</sub> Sb <sub>2</sub> -xS <sub>3</sub> solid-solution photocatalysts. Journal of Colloid and Interface Science, 2020, 561, 71-82.	9.4	36
17	Effect of different plasmonic metals on photocatalytic degradation of volatile organic compounds (VOCs) by bentonite/M-TiO <sub>2</sub> nanocomposites under UV/visible light. Applied Clay Science, 2018, 153, 144-153.	5.2	34
18	A comparative study on the effect of different precursors for synthesis and efficient photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> /bentonite nanocomposites. Journal of Materials Science, 2018, 53, 13126-13142.	3.7	32

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19	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.	7.3	32
20	Carbon quantum dots/TiO <sub>2</sub> nanocomposite for sensing of toxic metals and photodetoxification of dyes with kill waste by waste concept. <i>Materials and Design</i> , 2018, 155, 485-493.	7.0	30
21	Gold Nanoparticles Grafted Mesoporous Silica: A Highly Efficient and Recyclable Heterogeneous Catalyst for Reduction of 4-Nitrophenol. <i>Nano</i> , 2016, 11, 1650104.	1.0	26
22	Natural polymer based composite membranes for water purification: a review. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1295-1310.	1.3	22
23	Controlled photocatalytic hydrolysis of nitriles to amides by mesoporous MnO <sub>2</sub> nanoparticles fabricated by mixed surfactant mediated approach. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 343, 1-6.	3.9	17
24	Effect of Au content on the enhanced photocatalytic efficiency of mesoporous Au/TiO <sub>2</sub> nanocomposites in UV and sunlight. <i>Gold Bulletin</i> , 2017, 50, 33-41.	2.4	16
25	Microwave Treated Bentonite Clay Based TiO <sub>2</sub> Composites: An Efficient Photocatalyst for Rapid Degradation of Methylene Blue. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1149-1155.	0.9	15
26	Implementation of a logic gate by chemically induced nitrogen and oxygen rich C-dots for the selective detection of fluoride ions. <i>New Journal of Chemistry</i> , 2018, 42, 12162-12171.	2.8	15
27	Variation of surface area of silica monoliths by controlling ionic character/chain length of surfactants and polymers. <i>Materials Letters</i> , 2017, 194, 213-216.	2.6	14
28	Optical Detection of Thiol Drugs by Core-Shell Luminous Carbon Dots-Gold Nanoparticles System. <i>Plasmonics</i> , 2018, 13, 2239-2248.	3.4	12
29	Fluorescent carbon dot decorated MnO <sub>2</sub> nanorods for complete photomineralization of phenol from water. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 2012-2020.	2.4	12
30	Enhanced catalytic and antibacterial activity of nanocasted mesoporous silver monoliths: kinetic and thermodynamic studies. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 81, 704-710.	2.4	9
31	Plastic Waste Precursor-Derived Fluorescent Carbon and Construction of Ternary FCs@CuO@TiO <sub>2</sub> Hybrid Photocatalyst for Hydrogen Production and Sensing Application. <i>Energies</i> , 2022, 15, 1734.	3.1	8
32	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
33	Upcycling of Pharmaceutical Glass into Highly Porous Ceramics: From Foams to Membranes. <i>Materials</i> , 2022, 15, 3784.	2.9	5
34	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.	4.8	3
35	Mesoporous Au/TiO <sub>2</sub> nanocomposite photocatalysts with enhanced UV and visible light photocatalytic activity. , 2016, , .		0
36	Synthesis of mesoporous Au/TiO <sub>2</sub> nanocomposites by HDP method: An efficient reusable photocatalyst for dye degradation under UV & sunlight. , 2016, , .		0