Amrita Mishra

List of Publications by Year
in descending order

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37 papers	1,691 citations	304368 22 h-index	360668 35 g-index
37 all docs	37 docs citations	37 times ranked	2425 citing authors

#	Article	IF	Citations
1	Point-of-use photocatalytic device for water disinfection under visible light using ZnO/Gypsum@alginate beads. Journal of Environmental Chemical Engineering, 2022, 10, 107520.	3.3	8
2	Photocatalytic disinfection of multidrug resistant staphylococcus haemolyticus and Escherichia coli using visible-LED: A photochemical approach to curb nosocomial infection. Environmental Technology and Innovation, 2022, 27, 102502.	3.0	1
3	Transcriptomic regulation of Salmonella Typhimurium during sonophotocatalysis and the effect of stress adaptation on the antibiotic resistance and tolerance post-treatment. Chemical Engineering Journal, 2022, 446, 137442.	6.6	6
4	To unsnarl the mechanism of disinfection of Escherichia coli via visible light assisted heterogeneous photo-Fenton reaction in presence of biochar supported maghemite nanoparticles. Journal of Environmental Chemical Engineering, 2021, 9, 104620.	3.3	17
5	To decipher the antibacterial mechanism and promotion of wound healing activity by hydrogels embedded with biogenic Ag@ZnO core-shell nanocomposites. Chemical Engineering Journal, 2021, 417, 128025.	6.6	38
6	Ag@ZnO Nanoparticles Induce Antimicrobial Peptides and Promote Migration and Antibacterial Activity of Keratinocytes. ACS Infectious Diseases, 2021, 7, 2068-2072.	1.8	16
7	Photocatalytic disinfection of extended-spectrum beta-lactamase producing Escherichia coli using Alumina/ZnO heterostructures. Journal of Environmental Chemical Engineering, 2021, 9, 106334.	3.3	7
8	Sonophotocatalysis-mediated morphological transition modulates virulence and antibiotic resistance in Salmonella Typhimurium. Environmental Science: Water Research and Technology, 2020, 6, 1917-1930.	1.2	5
9	Biogenic Ag/CaO nanocomposites kill Staphylococcus aureus with reduced toxicity towards mammalian cells. Colloids and Surfaces B: Biointerfaces, 2020, 189, 110846.	2.5	11
10	Designing Novel Photocatalysts for Disinfection of Multidrug-Resistant Waterborne Bacteria. Green Energy and Technology, 2020, , 441-476.	0.4	1
11	Sonophotocatalytic disinfection of Shigella species under visible light irradiation: Insights into its molecular mechanism, antibacterial resistance and biofilm formation. Environmental Research, 2020, 187, 109620.	3.7	12
12	Ag@SnO2@ZnO core-shell nanocomposites assisted solar-photocatalysis downregulates multidrug resistance in Bacillus sp.: A catalytic approach to impede antibiotic resistance. Applied Catalysis B: Environmental, 2019, 259, 118065.	10.8	50
13	Biogenic Au@ZnO coreâ€“shell nanocomposites kill Staphylococcus aureus without provoking nuclear damage and cytotoxicity in mouse fibroblasts cells under hyperglycemic condition with enhanced wound healing proficiency. Medical Microbiology and Immunology, 2019, 208, 609-629.	2.6	34
14	Mechanistic insight into the disinfection of Salmonella sp. by sun-light assisted sonophotocatalysis using doped ZnO nanoparticles. Chemical Engineering Journal, 2018, 336, 476-488.	6.6	43
15	Sunlight Assisted Photocatalytic Degradation of Ciprofloxacin in Water Using Fe Doped ZnO Nanoparticles for Potential Public Health Applications. International Journal of Environmental Research and Public Health, 2018, 15, 2440.	1.2	62
16	Biosynthesis of magnesium oxide (MgO) nanoflakes by using leaf extract of Bauhinia purpurea and evaluation of its antibacterial property against Staphylococcus aureus. Materials Science and Engineering C, 2018, 91, 436-444.	3.8	71
17	Doped ZnO nanoparticles impregnated on Kaolinite (Clay): A reusable nanocomposite for photocatalytic disinfection of multidrug resistant Enterobacter sp. under visible light. Journal of Colloid and Interface Science, 2018, 530, 610-623.	5.0	57
18	Disinfection of Multidrug Resistant Escherichia coli by Solar-Photocatalysis using Fe-doped ZnO Nanoparticles. Scientific Reports, 2017, 7, 104.	1.6	65

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19	Disinfection of the Water Borne Pathogens Escherichia coli and Staphylococcus aureus by Solar Photocatalysis Using Sonochemically Synthesized Reusable Ag@ZnO Core-Shell Nanoparticles. International Journal of Environmental Research and Public Health, 2017, 14, 747.	1.2	23
20	Understanding the Antifungal Mechanism of Ag@ZnO Core-shell Nanocomposites against Candida krusei. Scientific Reports, 2016, 6, 36403.	1.6	70
21	Facile bio-synthesis of gold nanoparticles by using extract of Hibiscus sabdariffa and evaluation of its cytotoxicity against U87 glioblastoma cells under hyperglycemic condition. Biochemical Engineering Journal, 2016, 105, 264-272.	1.8	99
22	Solar-photocatalytic disinfection of Vibrio cholerae by using Ag@ZnO coreâ€“shell structure nanocomposites. Journal of Photochemistry and Photobiology B: Biology, 2015, 142, 68-76.	1.7	79
23	Fabrication of Metal@SnO2 Core-Shell Nanocomposites for Gas Sensing Applications. Advances in Chemical and Materials Engineering Book Series, 2015, , 438-451.	0.2	0
24	Microwave assisted hydrothermal synthesis of well-dispersed and thermally stable Ag@SnO2 coreâ€“shell nanocomposites for propane sensing applications. Journal of Materials Science: Materials in Electronics, 2014, 25, 217-223.	1.1	11
25	Microwave assisted hydrothermal synthesis of mesoporous SnO2 nanoparticles for ethanol sensing and degradation. Journal of Materials Science: Materials in Electronics, 2013, 24, 2082-2090.	1.1	23
26	Inactivation of Foodborne Pathogens by NiO/TiO2 Composite Nanofibers: A Novel Biomaterial System. Food and Bioprocess Technology, 2013, 6, 988-996.	2.6	29
27	Synthesis of thermally stable monodispersed Au@SnO2 coreâ€“shell structure nanoparticles by a sonochemical technique for detection and degradation of acetaldehyde. Analytical Methods, 2013, 5, 1456.	1.3	39
28	Fabrication, Characterization and Antibacterial Effect of Novel Electrospun TiO₂ Nanorods on a Panel of Pathogenic Bacteria. Journal of Biomedical Nanotechnology, 2012, 8, 394-404.	0.5	31
29	Fabrication, growth mechanism and antibacterial activity of ZnO micro-spheres prepared via solution process. Biomass and Bioenergy, 2012, 39, 227-236.	2.9	62
30	Fungus mediated synthesis of gold nanoparticles and their conjugation with genomic DNA isolated from Escherichia coli and Staphylococcus aureus. Process Biochemistry, 2012, 47, 701-711.	1.8	101
31	Microbial synthesis of gold nanoparticles using the fungus Penicillium brevicompactum and their cytotoxic effects against mouse mayo blast cancer C2C12 cells. Applied Microbiology and Biotechnology, 2011, 92, 617-630.	1.7	180
32	Bio-Synthesis of Gold and Silver Nanoparticles from Candida guilliermondii and Their Antimicrobial Effect Against Pathogenic Bacteria. Journal of Nanoscience and Nanotechnology, 2011, 11, 243-248.	0.9	92
33	Effect of pH on the Extra Cellular Synthesis of Gold and Silver Nanoparticles by Saccharomyces cerevisae. Journal of Nanoscience and Nanotechnology, 2011, 11, 518-522.	0.9	27
34	Interaction of biosynthesized gold nanoparticles with genomic DNA isolated from E. coli and S. aureus. , 2011, , .		0
35	Antibacterial activity of ZnO nanoparticles prepared via non-hydrolytic solution route. Applied Microbiology and Biotechnology, 2010, 87, 1917-1925.	1.7	182
36	Formation of ZnO Micro-Flowers Prepared via Solution Process and their Antibacterial Activity. Nanoscale Research Letters, 2010, 5, 1675-1681.	3.1	124

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37	Percolation bacterial leaching of low-grade chalcopyrite using acidophilic microorganisms. Korean Journal of Chemical Engineering, 2008, 25, 524-530.	1.2	15