

Amrita Mishra

List of Publications by Year in descending order

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Version: 2024-02-01

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	Antibacterial activity of ZnO nanoparticles prepared via non-hydrolytic solution route. Applied Microbiology and Biotechnology, 2010, 87, 1917-1925.	1.7	182
2	Microbial synthesis of gold nanoparticles using the fungus <i>Penicillium brevicompactum</i> and their cytotoxic effects against mouse mayo blast cancer C2C12 cells. Applied Microbiology and Biotechnology, 2011, 92, 617-630.	1.7	180
3	Formation of ZnO Micro-Flowers Prepared via Solution Process and their Antibacterial Activity. Nanoscale Research Letters, 2010, 5, 1675-1681.	3.1	124
4	Fungus mediated synthesis of gold nanoparticles and their conjugation with genomic DNA isolated from <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . Process Biochemistry, 2012, 47, 701-711.	1.8	101
5	Facile bio-synthesis of gold nanoparticles by using extract of <i>Hibiscus sabdariffa</i> and evaluation of its cytotoxicity against U87 glioblastoma cells under hyperglycemic condition. Biochemical Engineering Journal, 2016, 105, 264-272.	1.8	99
6	Bio-Synthesis of Gold and Silver Nanoparticles from <i>Candida guilliermondii</i> and Their Antimicrobial Effect Against Pathogenic Bacteria. Journal of Nanoscience and Nanotechnology, 2011, 11, 243-248.	0.9	92
7	Solar-photocatalytic disinfection of <i>Vibrio cholerae</i> by using Ag@ZnO core-shell structure nanocomposites. Journal of Photochemistry and Photobiology B: Biology, 2015, 142, 68-76.	1.7	79
8	Biosynthesis of magnesium oxide (MgO) nanoflakes by using leaf extract of <i>Bauhinia purpurea</i> and evaluation of its antibacterial property against <i>Staphylococcus aureus</i> . Materials Science and Engineering C, 2018, 91, 436-444.	3.8	71
9	Understanding the Antifungal Mechanism of Ag@ZnO Core-shell Nanocomposites against <i>Candida krusei</i> . Scientific Reports, 2016, 6, 36403.	1.6	70
10	Disinfection of Multidrug Resistant <i>Escherichia coli</i> by Solar-Photocatalysis using Fe-doped ZnO Nanoparticles. Scientific Reports, 2017, 7, 104.	1.6	65
11	Fabrication, growth mechanism and antibacterial activity of ZnO micro-spheres prepared via solution process. Biomass and Bioenergy, 2012, 39, 227-236.	2.9	62
12	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
13	Doped ZnO nanoparticles impregnated on Kaolinite (Clay): A reusable nanocomposite for photocatalytic disinfection of multidrug resistant <i>Enterobacter sp.</i> under visible light. Journal of Colloid and Interface Science, 2018, 530, 610-623.	5.0	57
14	Ag@SnO ₂ @ZnO core-shell nanocomposites assisted solar-photocatalysis downregulates multidrug resistance in <i>Bacillus sp.</i> : A catalytic approach to impede antibiotic resistance. Applied Catalysis B: Environmental, 2019, 259, 118065.	10.8	50
15	Mechanistic insight into the disinfection of <i>Salmonella sp.</i> by sun-light assisted sonophotocatalysis using doped ZnO nanoparticles. Chemical Engineering Journal, 2018, 336, 476-488.	6.6	43
16	Synthesis of thermally stable monodispersed Au@SnO ₂ core-shell structure nanoparticles by a sonochemical technique for detection and degradation of acetaldehyde. Analytical Methods, 2013, 5, 1456.	1.3	39
17	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
18	Biogenic Au@ZnO core-shell nanocomposites kill <i>Staphylococcus aureus</i> 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

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19	Fabrication, Characterization and Antibacterial Effect of Novel Electrospun TiO ₂ /ZnO Nanorods on a Panel of Pathogenic Bacteria. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 394-404.	0.5	31
20	Inactivation of Foodborne Pathogens by NiO/TiO ₂ Composite Nanofibers: A Novel Biomaterial System. <i>Food and Bioprocess Technology</i> , 2013, 6, 988-996.	2.6	29
21	Effect of pH on the Extra Cellular Synthesis of Gold and Silver Nanoparticles by <i>Saccharomyces cerevisiae</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 518-522.	0.9	27
22	Microwave assisted hydrothermal synthesis of mesoporous SnO ₂ nanoparticles for ethanol sensing and degradation. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2082-2090.	1.1	23
23	Disinfection of the Water Borne Pathogens <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> by Solar Photocatalysis Using Sonochemically Synthesized Reusable Ag@ZnO Core-Shell Nanoparticles. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 747.	1.2	23
24	To unsnarl the mechanism of disinfection of <i>Escherichia coli</i> via visible light assisted heterogeneous photo-Fenton reaction in presence of biochar supported maghemite nanoparticles. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104620.	3.3	17
25	Ag@ZnO Nanoparticles Induce Antimicrobial Peptides and Promote Migration and Antibacterial Activity of Keratinocytes. <i>ACS Infectious Diseases</i> , 2021, 7, 2068-2072.	1.8	16
26	Percolation bacterial leaching of low-grade chalcopyrite using acidophilic microorganisms. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 524-530.	1.2	15
27	Sonophotocatalytic disinfection of <i>Shigella</i> species under visible light irradiation: Insights into its molecular mechanism, antibacterial resistance and biofilm formation. <i>Environmental Research</i> , 2020, 187, 109620.	3.7	12
28	Microwave assisted hydrothermal synthesis of well-dispersed and thermally stable Ag@SnO ₂ core-shell nanocomposites for propane sensing applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 217-223.	1.1	11
29	Biogenic Ag/CaO nanocomposites kill <i>Staphylococcus aureus</i> with reduced toxicity towards mammalian cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110846.	2.5	11
30	Point-of-use photocatalytic device for water disinfection under visible light using ZnO/Gypsum@alginate beads. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107520.	3.3	8
31	Photocatalytic disinfection of extended-spectrum beta-lactamase producing <i>Escherichia coli</i> using Alumina/ZnO heterostructures. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106334.	3.3	7
32	Transcriptomic regulation of <i>Salmonella Typhimurium</i> during sonophotocatalysis and the effect of stress adaptation on the antibiotic resistance and tolerance post-treatment. <i>Chemical Engineering Journal</i> , 2022, 446, 137442.	6.6	6
33	Sonophotocatalysis-mediated morphological transition modulates virulence and antibiotic resistance in <i>Salmonella Typhimurium</i> . <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1917-1930.	1.2	5
34	Designing Novel Photocatalysts for Disinfection of Multidrug-Resistant Waterborne Bacteria. <i>Green Energy and Technology</i> , 2020, , 441-476.	0.4	1
35	Photocatalytic disinfection of multidrug resistant <i>Staphylococcus haemolyticus</i> and <i>Escherichia coli</i> using visible-LED: A photochemical approach to curb nosocomial infection. <i>Environmental Technology and Innovation</i> , 2022, 27, 102502.	3.0	1
36	Interaction of biosynthesized gold nanoparticles with genomic DNA isolated from <i>E. coli</i> and <i>S. aureus</i> . , 2011, , .		0

#	ARTICLE	IF	CITATIONS
37	Fabrication of Metal@SnO ₂ Core-Shell Nanocomposites for Gas Sensing Applications. Advances in Chemical and Materials Engineering Book Series, 2015, , 438-451.	0.2	0