

Nitai Debnath

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,315
citations

394421

19
h-index

677142

22
g-index

26
all docs

26
docs citations

26
times ranked

1745
citing authors

#	ARTICLE	IF	CITATIONS
1	Entomotoxic effect of silica nanoparticles against <i>Sitophilus oryzae</i> (L.). <i>Journal of Pest Science</i> , 2011, 84, 99-105.	3.7	220
2	Novel applications of solid and liquid formulations of nanoparticles against insect pests and pathogens. <i>Thin Solid Films</i> , 2010, 519, 1252-1257.	1.8	214
3	Recent trends in nanomaterials applications in environmental monitoring and remediation. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18333-18344.	5.3	126
4	Biochemical-, Biophysical-, and Microarray-Based Antifungal Evaluation of the Buffer-Mediated Synthesized Nano Zinc Oxide: An in Vivo and in Vitro Toxicity Study. <i>Langmuir</i> , 2012, 28, 16966-16978.	3.5	97
5	Porous ZnO nanorod for targeted delivery of doxorubicin: in vitro and in vivo response for therapeutic applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 24145.	6.7	76
6	Synthesis of surface functionalized silica nanoparticles and their use as entomotoxic nanocides. <i>Powder Technology</i> , 2012, 221, 252-256.	4.2	74
7	Ciprofloxacin conjugated zinc oxide nanoparticle: A camouflage towards multidrug resistant bacteria. <i>Bulletin of Materials Science</i> , 2014, 37, 199-206.	1.7	60
8	Nanomaterials for biomedical applications. <i>Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences</i> , 2013, 7, 90-98.	1.1	57
9	Nature-inspired Novel Drug Design Paradigm Using Nanosilver: Efficacy on Multi-Drug-Resistant Clinical Isolates of Tuberculosis. <i>Current Microbiology</i> , 2011, 62, 715-726.	2.2	52
10	Comparative analysis of stability and toxicity profile of three differently capped gold nanoparticles for biomedical usage. <i>BioMetals</i> , 2012, 25, 1009-1022.	4.1	46
11	Damage of lipopolysaccharides in outer cell membrane and production of ROS-mediated stress within bacteria makes nano zinc oxide a bactericidal agent. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 857-866.	3.1	40
12	Microwave synthesis of ZnO@mSiO ₂ for detailed antifungal mode of action study: Understanding the insights into oxidative stress. <i>Journal of Colloid and Interface Science</i> , 2015, 444, 97-108.	9.4	34
13	Application of Core/Shell Nanoparticles in Smart Farming: A Paradigm Shift for Making the Agriculture Sector More Sustainable. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 3267-3283.	5.2	30
14	Unique chemical grafting of carbon nanoparticle on fabricated ZnO nanorod: Antibacterial and bioimaging property. <i>Materials Research Bulletin</i> , 2012, 47, 586-594.	5.2	29
15	Toxicological evaluation of entomotoxic silica nanoparticle. <i>Toxicological and Environmental Chemistry</i> , 2012, 94, 944-951.	1.2	28
16	Nanoparticle-induced morphological transition of <i>Bombyx mori</i> nucleopolyhedrovirus: a novel method to treat silkworm grasserie disease. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6019-6030.	3.6	26
17	Entomotoxic efficacy of aluminium oxide, titanium dioxide and zinc oxide nanoparticles against <i>Sitophilus oryzae</i> (L.): A comparative analysis. <i>Journal of Stored Products Research</i> , 2019, 83, 92-96.	2.6	25
18	Potential use of nanotechnology in sustainable and "smart" agriculture: advancements made in the last decade. <i>Plant Biotechnology Reports</i> , 2020, 14, 505-513.	1.5	25

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19	Enhancement of photon absorption in the light-harvesting complex of isolated chloroplast in the presence of plasmonic gold nanosolâ€”a nanobionic approach towards photosynthesis and plant primary growth augmentation. <i>Gold Bulletin</i> , 2017, 50, 247-257.	2.4	22
20	Entomotoxicity Assay of Silica, Zinc Oxide, Titanium Dioxide, Aluminium Oxide Nanoparticles on <i>Lipaphis pseudobrassicae</i> . <i>AIP Conference Proceedings</i> , 2010, , .	0.4	12
21	Nanoparticles influence on expression of cell cycle related genes in <i>Drosophila</i> : a microarray-based toxicogenomics study. <i>Toxicological and Environmental Chemistry</i> , 2012, 94, 952-957.	1.2	11
22	Application of baculoviruses as biopesticides and the possibilities of nanoparticle mediated delivery. , 2019, , 261-280.		3
23	Novel entomotoxic nanocides for agro-chemical industry. , 2011, , .		2
24	Effect of synthetic route in particle size distribution of zinc oxide, silver and carbon nanoparticles and its role in controlling phytopathogenic fungus <i>Alternaria solani</i> . <i>Archives of Phytopathology and Plant Protection</i> , 0, , 1-14.	1.3	2
25	Biomedical Nano Tools: A Potential New Paradigm for Immunoassays and Immune Detection. <i>Current Nanomedicine</i> , 2019, 9, 98-107.	0.6	0