

Natarajan Sakthivel

List of Publications by Year in descending order

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44
papers

4,073
citations

279487

23
h-index

315357

38
g-index

45
all docs

45
docs citations

45
times ranked

5355
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological synthesis of metal nanoparticles by microbes. <i>Advances in Colloid and Interface Science</i> , 2010, 156, 1-13.	7.0	1,459
2	Green synthesis of biogenic metal nanoparticles by terrestrial and aquatic phototrophic and heterotrophic eukaryotes and biocompatible agents. <i>Advances in Colloid and Interface Science</i> , 2011, 169, 59-79.	7.0	462
3	Synthesis and characterization of nano-gold composite using <i>Cylindrocladium floridanum</i> and its heterogeneous catalysis in the degradation of 4-nitrophenol. <i>Journal of Hazardous Materials</i> , 2011, 189, 519-525.	6.5	243
4	Microbial diversity of vermicompost bacteria that exhibit useful agricultural traits and waste management potential. <i>SpringerPlus</i> , 2012, 1, 26.	1.2	214
5	Assessment of genetic and functional diversity of phosphate solubilizing fluorescent pseudomonads isolated from rhizospheric soil. <i>BMC Microbiology</i> , 2008, 8, 230.	1.3	161
6	Phytosynthesis of gold nanoparticles using leaf extract of <i>Coleus amboinicus</i> Lour. <i>Materials Characterization</i> , 2010, 61, 1232-1238.	1.9	150
7	Differential sensitivity of rice pathogens to growth inhibition by flavonoids. <i>Phytochemistry</i> , 1997, 46, 499-502.	1.4	140
8	Heterogeneous catalytic reduction of anthropogenic pollutant, 4-nitrophenol by silver-bionanocomposite using <i>Cylindrocladium floridanum</i> . <i>Bioresource Technology</i> , 2011, 102, 10737-10740.	4.8	125
9	Simultaneous phosphate solubilization potential and antifungal activity of new fluorescent pseudomonad strains, <i>Pseudomonas aeruginosa</i> , <i>P. plecoglossicida</i> and <i>P. mosselii</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 573-581.	1.7	101
10	Facile green synthesis of gold nanostructures by NADPH-dependent enzyme from the extract of <i>Sclerotium rolfsii</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 380, 156-161.	2.3	100
11	Extracellular synthesis of silver nanoparticles using the leaf extract of <i>Coleus amboinicus</i> Lour.. <i>Materials Research Bulletin</i> , 2011, 46, 1708-1713.	2.7	88
12	Green one-pot synthesis of gold nanoparticles using <i>Sansevieria roxburghiana</i> leaf extract for the catalytic degradation of toxic organic pollutants. <i>Materials Research Bulletin</i> , 2019, 117, 18-27.	2.7	86
13	Molecular and functional characterization of bacteria isolated from straw and goat manure based vermicompost. <i>Applied Soil Ecology</i> , 2013, 70, 33-47.	2.1	84
14	Green Chemistry Approach for the Synthesis of Gold Nanoparticles Using the Fungus <i>Alternaria</i> sp.. <i>Journal of Microbiology and Biotechnology</i> , 2015, 25, 1129-1135.	0.9	80
15	Advances in selectable marker genes for plant transformation. <i>Journal of Plant Physiology</i> , 2008, 165, 1698-1716.	1.6	73
16	Genetic and Functional Diversity among Fluorescent Pseudomonads Isolated from the Rhizosphere of Banana. <i>Microbial Ecology</i> , 2008, 56, 492-504.	1.4	57
17	Extracellular synthesis of mycogenic silver nanoparticles by <i>Cylindrocladium floridanum</i> and its homogeneous catalytic degradation of 4-nitrophenol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 116, 485-490.	2.0	50
18	Functional characterization of a novel hydrocarbonoclastic <i>Pseudomonas</i> sp. strain PUP6 with plant-growth-promoting traits and antifungal potential. <i>Research in Microbiology</i> , 2006, 157, 538-546.	1.0	40

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19	Mycocrystallization of gold ions by the fungus <i>Cylindrocladium floridanum</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 2207-2211.	1.7	40
20	Production of phytotoxic metabolites by <i>Sarocladium oryzae</i> . <i>Mycological Research</i> , 2002, 106, 609-614.	2.5	35
21	Biological and Molecular Variability of <i>Sarocladium oryzae</i> , the Sheath Rot Pathogen of Rice (<i>Oryza</i>) Tj ETQq1 1 0.784314 rgBT /Overl 1.0	1.0	32
22	In vitro antiproliferative, pro-apoptotic, antimetastatic and anti-inflammatory potential of 2,4-diacetylphloroglucinol (DAPG) by <i>Pseudomonas aeruginosa</i> strain FP10. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2015, 20, 1281-1295.	2.2	31
23	Biodegradation of nicotine by a novel nicotine-degrading bacterium, <i>Pseudomonas plecoglossicida</i> TND35 and its new biotransformation intermediates. <i>Biodegradation</i> , 2014, 25, 95-107.	1.5	30
24	Assessment of genetic and functional relationship of antagonistic fluorescent pseudomonads of rice rhizosphere by repetitive sequence, protein coding sequence and functional gene analyses. <i>Journal of Microbiology</i> , 2010, 48, 715-727.	1.3	21
25	Molecular interaction between human serum albumin (HSA) and phloroglucinol derivative that shows selective anti-proliferative potential. <i>Journal of Luminescence</i> , 2017, 192, 990-998.	1.5	21
26	Green synthesis of phyto-genic nanoparticles. , 2019, , 37-73.		21
27	Single-Pot Self-Assembly of Heteroleptic Mn(II)-Based Aminoquinonato-Bridged Ester/Amide-Functionalized Dinuclear Metallastirrup: Potential Anticancer and Visible-Light-Triggered CORMs. <i>ACS Omega</i> , 2019, 4, 12790-12802.	1.6	20
28	Microbial Synthesis of Silver Nanoparticles and Their Biological Potential. , 2020, , 99-133.		19
29	Selenolato-Bridged Manganese(II)-Based Dinuclear Metallacycles as Potential Anticancer Agents and Photo-CORMs. <i>ACS Omega</i> , 2019, 4, 1923-1930.	1.6	14
30	Physico-cultural parameters during AgNPs biotransformation with bactericidal activity against human pathogens. <i>Enzyme and Microbial Technology</i> , 2017, 100, 45-51.	1.6	13
31	Self-Assembly of Chalcogenolato-Bridged Ester and Amide Functionalized Dinuclear Re(II) Metallacycles: Synthesis, Structural Characterization and Preliminary Cytotoxicity Studies. <i>ChemistrySelect</i> , 2017, 2, 3362-3368.	0.7	12
32	Self-assembly of manganese(II) based thiolato bridged dinuclear metallacycles: synthesis, characterization, cytotoxicity evaluation and CO-releasing studies. <i>New Journal of Chemistry</i> , 2019, 43, 7520-7531.	1.4	11
33	Draft Genome Sequence of a Novel Nicotine-Degrading Bacterium, <i>Pseudomonas plecoglossicida</i> TND35. <i>Genome Announcements</i> , 2015, 3, .	0.8	7
34	Self-Assembled Manganese(II)-Based Selenolato-Bridged Tetranuclear Metallorightangles: Host-Guest Interaction, Anticancer, and CO-Releasing Studies. <i>Inorganic Chemistry</i> , 2021, 60, 13284-13298.	1.9	7
35	Microbiome of Rhizospheric Soil and Vermicompost and Their Applications in Soil Fertility, Pest and Pathogen Management for Sustainable Agriculture. , 2019, , 189-210.		6
36	From Chemistry to Biology: Applications and Advantages of Green, Biosynthesized/Biofabricated Metal- and Carbon-based Nanoparticles. <i>Fibers and Polymers</i> , 2021, 22, 877-897.	1.1	5

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37	Site-Directed Mutagenesis, Heterologous Expression of Cyanamide Hydratase Gene and Antimicrobial Activity of Cyanamide. <i>Current Microbiology</i> , 2008, 56, 42-47.	1.0	4
38	Biological Control of Pathogens and Plant Growth Promotion Potential of Fluorescent Pseudomonads. , 2013, , 77-110.		4
39	Metallic Nanocomposites: Bacterial-Based Ecologically Benign Biofabrication and Optimization Studies. <i>Advanced Structured Materials</i> , 2015, , 215-231.	0.3	2
40	Bioreduction of Gold Ions from Anisotropic to Isotropic Nanostructures by NADPHâ€­Dependent Reductase from <i>Bipolaris oryzae</i> . <i>ChemistrySelect</i> , 2020, 5, 11522-11529.	0.7	2
41	Phytogenic synthesis of gold nanoparticles: mechanisms and applications. , 2021, , 187-210.		1
42	Microbial and Functional Diversity of Vermicompost Bacteria. <i>Sustainable Development and Biodiversity</i> , 2014, , 205-225.	1.4	1
43	MICROBIAL DIVERSITY OF VERMICOMPOST BACTERIA THAT EXHIBIT USEFUL AGRICULTURAL TRAITS AND WASTE MANAGEMENT POTENTIAL. , 2014, , 161-208.		0
44	Microbial Diversity of Vermicompost Bacteria that Exhibit Useful Agricultural Traits and Waste Management Potential. , 2015, , 169-216.		0