

Sekar Vijayakumar

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

3,268
citations

126858

33
h-index

155592

55
g-index

78
all docs

78
docs citations

78
times ranked

3684
citing authors

#	ARTICLE	IF	CITATIONS
1	Dietary supplementation of probiotic <i>Bacillus licheniformis</i> Dahb1 improves growth performance, mucus and serum immune parameters, antioxidant enzyme activity as well as resistance against <i>Aeromonas hydrophila</i> in tilapia <i>Oreochromis mossambicus</i> . <i>Fish and Shellfish Immunology</i> , 2018, 74, 501-508.	1.6	212
2	<i>Laurus nobilis</i> leaf extract mediated green synthesis of ZnO nanoparticles: Characterization and biomedical applications. <i>Biomedicine and Pharmacotherapy</i> , 2016, 84, 1213-1222.	2.5	211
3	<i>Plectranthus amboinicus</i> leaf extract mediated synthesis of zinc oxide nanoparticles and its control of methicillin resistant <i>Staphylococcus aureus</i> biofilm and blood sucking mosquito larvae. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 886-891.	2.0	179
4	Bioaccumulation, cytotoxicity and oxidative stress of the acute exposure selenium in <i>Oreochromis mossambicus</i> . <i>Ecotoxicology and Environmental Safety</i> , 2018, 162, 147-159.	2.9	171
5	Biological therapeutics of <i>Pongamia pinnata</i> coated zinc oxide nanoparticles against clinically important pathogenic bacteria, fungi and MCF-7 breast cancer cells. <i>Microbial Pathogenesis</i> , 2017, 104, 268-277.	1.3	131
6	Biopolymer gelatin-coated zinc oxide nanoparticles showed high antibacterial, antibiofilm and anti-angiogenic activity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 178, 211-218.	1.7	120
7	Biosynthesis of silver nanoparticles using a probiotic <i>Bacillus licheniformis</i> Dahb1 and their antibiofilm activity and toxicity effects in <i>Ceriodaphnia cornuta</i> . <i>Microbial Pathogenesis</i> , 2016, 93, 70-77.	1.3	111
8	Antibacterial, antibiofilm and cytotoxic effects of <i>Nigella sativa</i> essential oil coated gold nanoparticles. <i>Microbial Pathogenesis</i> , 2016, 91, 129-135.	1.3	111
9	Garlic clove extract assisted silver nanoparticle " Antibacterial, antibiofilm, antihelminthic, anti-inflammatory, anticancer and ecotoxicity assessment. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 198, 111558.	1.7	103
10	Therapeutic effects of gold nanoparticles synthesized using <i>Musa paradisiaca</i> peel extract against multiple antibiotic resistant <i>Enterococcus faecalis</i> biofilms and human lung cancer cells (A549). <i>Microbial Pathogenesis</i> , 2017, 102, 173-183.	1.3	100
11	<i>Oreochromis mossambicus</i> diet supplementation with <i>Psidium guajava</i> leaf extracts enhance growth, immune, antioxidant response and resistance to <i>Aeromonas hydrophila</i> . <i>Fish and Shellfish Immunology</i> , 2016, 58, 572-583.	1.6	95
12	Chitosan coated Ag/ZnO nanocomposite and their antibiofilm, antifungal and cytotoxic effects on murine macrophages. <i>Microbial Pathogenesis</i> , 2016, 100, 124-132.	1.3	83
13	<i>Bacillus thuringiensis</i> coated zinc oxide nanoparticle and its biopesticidal effects on the pulse beetle, <i>Callosobruchus maculatus</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 174, 306-314.	1.7	77
14	Biopolymer zein-coated gold nanoparticles: Synthesis, antibacterial potential, toxicity and histopathological effects against the Zika virus vector <i>Aedes aegypti</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 173, 404-411.	1.7	75
15	Microwave assisted green synthesis of Hydroxyapatite nanorods using <i>Moringa oleifera</i> flower extract and its antimicrobial applications. <i>International Journal of Veterinary Science and Medicine</i> , 2018, 6, 286-295.	0.8	69
16	GFP tagged <i>Vibrio parahaemolyticus</i> Dahv2 infection and the protective effects of the probiotic <i>Bacillus licheniformis</i> Dahb1 on the growth, immune and antioxidant responses in <i>Pangasius hypophthalmus</i> . <i>Fish and Shellfish Immunology</i> , 2016, 52, 230-238.	1.6	67
17	Biopolymer K-carrageenan wrapped ZnO nanoparticles as drug delivery vehicles for anti MRSA therapy. <i>International Journal of Biological Macromolecules</i> , 2020, 144, 9-18.	3.6	56
18	Future applications of electrospun nanofibers in pressure driven water treatment: A brief review and research update. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105107.	3.3	54

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19	Bioinspired Zinc Oxide Nanoparticles Using Lycopersicon esculentum for Antimicrobial and Anticancer Applications. <i>Journal of Cluster Science</i> , 2019, 30, 1465-1479.	1.7	50
20	Antibacterial and antibiofilm assessment of Momordica charantia fruit extract coated silver nanoparticle. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016, 8, 189-196.	1.5	49
21	Antibiofilm, anti cancer and ecotoxicity properties of collagen based ZnO nanoparticles. <i>Advanced Powder Technology</i> , 2018, 29, 2331-2345.	2.0	49
22	Supramolecular hydrogels based on cellulose for sustained release of therapeutic substances with antimicrobial and wound healing properties. <i>Carbohydrate Polymers</i> , 2020, 242, 116383.	5.1	49
23	Two potential uses for silver nanoparticles coated with Solanum nigrum unripe fruit extract: Biofilm inhibition and photodegradation of dye effluent. <i>Microbial Pathogenesis</i> , 2017, 111, 316-324.	1.3	48
24	South Indian medicinal plants can combat deadly viruses along with COVID-19? - A review. <i>Microbial Pathogenesis</i> , 2020, 148, 104277.	1.3	48
25	Structural characterization of Bacillus licheniformis Dab1 exopolysaccharide's antimicrobial potential and larvicidal activity on malaria and Zika virus mosquito vectors. <i>Environmental Science and Pollution Research</i> , 2018, 25, 18604-18619.	2.7	44
26	Enhanced cancer therapy with pH-dependent and aptamer functionalized doxorubicin loaded polymeric (poly D, L-lactic-co-glycolic acid) nanoparticles. <i>Archives of Biochemistry and Biophysics</i> , 2019, 671, 143-151.	1.4	43
27	Chronic exposure of Oreochromis niloticus to sub-lethal copper concentrations: Effects on growth, antioxidant, non-enzymatic antioxidant, oxidative stress and non-specific immune responses. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 55, 170-179.	1.5	42
28	The antibacterial, antibiofilm, antifogging and mosquitocidal activities of titanium dioxide (TiO ₂) nanoparticles green-synthesized using multiple plants extracts. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104521.	3.3	42
29	A Review on Aquatic Impacts of Microplastics and Its Bioremediation Aspects. <i>Current Pollution Reports</i> , 2021, 7, 286-299.	3.1	41
30	A novel antimicrobial therapy for the control of Aeromonas hydrophila infection in aquaculture using marine polysaccharide coated gold nanoparticle. <i>Microbial Pathogenesis</i> , 2017, 110, 140-151.	1.3	40
31	Chitosan-coated silver nanoparticles promoted antibacterial, antibiofilm, wound-healing of murine macrophages and antiproliferation of human breast cancer MCF 7 cells. <i>Polymer Testing</i> , 2020, 90, 106675.	2.3	40
32	High synergistic antibacterial, antibiofilm, antidiabetic and antimetabolic activity of Withania somnifera leaf extract-assisted zinc oxide nanoparticle. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1533-1547.	1.7	38
33	Control of biofilm forming clinically important bacteria by green synthesized ZnO nanoparticles and its ecotoxicity on Ceriodaphnia cornuta. <i>Microbial Pathogenesis</i> , 2017, 107, 88-97.	1.3	37
34	Nano Biomedical Potential of Biopolymer Chitosan-Capped Silver Nanoparticles with Special Reference to Antibacterial, Antibiofilm, Anticoagulant and Wound Dressing Material. <i>Journal of Cluster Science</i> , 2020, 31, 355-366.	1.7	37
35	Biological Compound Capping of Silver Nanoparticle with the Seed Extracts of Blackcumin (Nigella) Tj ETQq1 1 0.784314 rgBT /Overlo Inorganic and Organometallic Polymers and Materials, 2021, 31, 624-635.	1.9	35
36	Assessment of biopolymer stabilized silver nanoparticle for their ecotoxicity on Ceriodaphnia cornuta and antibiofilm activity. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2076-2083.	3.3	30

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37	Film Dressings Based on Hydrogels: Simultaneous and Sustained-Release of Bioactive Compounds with Wound Healing Properties. <i>Pharmaceutics</i> , 2019, 11, 447.	2.0	30
38	Cytotoxicity of phloroglucinol engineered silver (Ag) nanoparticles against MCF-7 breast cancer cell lines. <i>Materials Chemistry and Physics</i> , 2018, 220, 402-408.	2.0	29
39	Protective effects of chitosan against the hazardous effects of zinc oxide nanoparticle in freshwater crustaceans <i>Ceriodaphnia cornuta</i> and <i>Moina micrura</i> . <i>Limnologica</i> , 2016, 61, 44-51.	0.7	25
40	Euphorbia rothiana-Fabricated Ag Nanoparticles Showed High Toxicity on <i>Aedes aegypti</i> Larvae and Growth Inhibition on Microbial Pathogens: A Focus on Morphological Changes in Mosquitoes and Antibiofilm Potential Against Bacteria. <i>Journal of Cluster Science</i> , 2017, 28, 2857-2872.	1.7	21
41	Biogenic Preparation and Characterization of ZnO Nanoparticles from Natural Polysaccharide <i>Azadirachta indica</i> .L. (neem gum) and its Clinical Implications. <i>Journal of Cluster Science</i> , 2021, 32, 983-993.	1.7	21
42	Ecotoxicity of <i>Musa paradisiaca</i> leaf extract-coated ZnO nanoparticles to the freshwater microcrustacean <i>Ceriodaphnia cornuta</i> . <i>Limnologica</i> , 2017, 67, 1-6.	0.7	20
43	Crustin-capped selenium nanowires against microbial pathogens and Japanese encephalitis mosquito vectors – Insights on their toxicity and internalization. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 51, 191-203.	1.5	20
44	Development of –on-demand– thermo-responsive hydrogels for anti-cancer drugs sustained release: Rational design, in silico prediction and in vitro validation in colon cancer models. <i>Materials Science and Engineering C</i> , 2021, 131, 112483.	3.8	20
45	In vitro antagonistic activity and the protective effect of probiotic <i>Bacillus licheniformis</i> Dabh1 in zebrafish challenged with GFP tagged <i>Vibrio parahaemolyticus</i> Dabh2. <i>Microbial Pathogenesis</i> , 2018, 114, 274-280.	1.3	19
46	Green Synthesis and Characterization of Silver Nanoparticles (AgNPs) Using Leaf Extract of <i>Solanum nigrum</i> and Assessment of Toxicity in Vertebrate and Invertebrate Aquatic Animals. <i>Journal of Cluster Science</i> , 2020, 31, 989-1002.	1.7	19
47	Green Synthesized Silver Nanoparticles: Toxicity Against <i>Poecilia reticulata</i> Fishes and <i>Ceriodaphnia cornuta</i> Crustaceans. <i>Journal of Cluster Science</i> , 2017, 28, 519-527.	1.7	18
48	Marine polysaccharide laminarin embedded ZnO nanoparticles and their based chitosan capped ZnO nanocomposites: Synthesis, characterization and in vitro and in vivo toxicity assessment. <i>Environmental Research</i> , 2022, 213, 113655.	3.7	18
49	Proteomics analysis of crude squid ink isolated from <i>Sepia esculenta</i> for their antimicrobial, antibiofilm and cytotoxic properties. <i>Microbial Pathogenesis</i> , 2018, 116, 345-350.	1.3	16
50	Green synthesis of silver doped zinc oxide nanoparticles using fresh leaf extract <i>Morinda citrifolia</i> and its antioxidant potential. <i>Materials Today: Proceedings</i> , 2021, 47, 2126-2131.	0.9	16
51	Antibacterial and antibiofilm activities of marine polysaccharide laminarin formulated gold nanoparticles: An ecotoxicity and cytotoxicity assessment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105514.	3.3	14
52	A Review on Biogenic Synthesis of Selenium Nanoparticles and Its Biological Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 2355-2370.	1.9	14
53	Bimetallic mixed metal oxide (CuO/NiO) in fusion with nitrogen-doped graphene oxide: An alternate approach for developing potential biocarrier. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105781.	3.3	13
54	Protective effects of dietary supplementation of probiotic <i>Bacillus licheniformis</i> Dabh1 against ammonia induced immunotoxicity and oxidative stress in <i>Oreochromis mossambicus</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2022, 259, 109379.	1.3	13

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55	Effect of curcumin sorbed selenite substituted hydroxyapatite on osteosarcoma cells: An in vitro study. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 60, 101963.	1.4	12
56	Sustained Release of Linezolid from Prepared Hydrogels with Polyvinyl Alcohol and Aliphatic Dicarboxylic Acids of Variable Chain Lengths. <i>Pharmaceutics</i> , 2020, 12, 982.	2.0	12
57	Cytotoxicity, phytotoxicity, and photocatalytic assessment of biopolymer cellulose-mediated silver nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127270.	2.3	12
58	Smart and eco-friendly N-isopropylacrylamide and cellulose hydrogels as a safe dual-drug local cancer therapy approach. <i>Carbohydrate Polymers</i> , 2022, 295, 119859.	5.1	12
59	Antimicrobial, antibiofilm, antioxidant, anticancer, and phytochemical composition of the seed extract of <i>Pongamia pinnata</i> . <i>Archives of Microbiology</i> , 2021, 203, 4005-4024.	1.0	11
60	Bio-Fabrication of Human Amniotic Membrane Zinc Oxide Nanoparticles and the Wet/Dry HAM Dressing Membrane for Wound Healing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 695710.	2.0	11
61	Interactive effects of freshwater acidification and selenium pollution on biochemical changes and neurotoxicity in <i>Oreochromis mossambicus</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 250, 109161.	1.3	11
62	Biogenic Synthesis of Rod Shaped ZnO Nanoparticles Using Red Paprika (<i>Capsicum annuum</i> L. var.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	8
63	Anti-skin cancer activity of <i>Alpinia calcarata</i> ZnO nanoparticles: Characterization and potential antimicrobial effects. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 61, 102180.	1.4	8
64	Evaluation of probiotic properties of <i>Lysinibacillus macroides</i> under in vitro conditions and culture of <i>Cyprinus carpio</i> on growth parameters. <i>Archives of Microbiology</i> , 2021, 203, 4705-4714.	1.0	6
65	In Vitro Biocidal Actions of <i>Rhus verniciflua</i> Bark Extract Wrapped Gold Nanoballs Against Biofilm-Forming Food-Borne Bacterial Pathogens. <i>Journal of Cluster Science</i> , 2019, 30, 1489-1499.	1.7	5
66	Anti-Colon Cancer and Antibiofilm Activities of Green Synthesized ZnO Nanoparticles Using Natural Polysaccharide Almond Gum (<i>Prunus dulcis</i>). <i>Journal of Cluster Science</i> , 0, , 1.	1.7	5
67	Preparation and characterization of amine-functionalized mupirocin-loaded zinc oxide nanoparticles: A potent drug delivery agent in targeting human epidermoid carcinoma (A431) cells. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103244.	1.4	5
68	Shrimp lectinâ€“conjugated copper sulfide nanoparticles enhance immune response and gene expression in <i>Etroplus suratensis</i> infected with <i>Aeromonas hydrophila</i> . <i>Aquaculture International</i> , 2021, 29, 1103-1120.	1.1	4
69	Enhanced anti-biofilm activity of facile synthesized silver oxide nanoparticles against <i>K. pneumoniae</i> . <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 3921-3933.	1.9	3
70	Latest Advances in Hydrogel-Based Drug Delivery Systems for Optimization of Metabolic Syndrome Treatment. <i>Current Medicinal Chemistry</i> , 2021, 28, 6274-6286.	1.2	3
71	Statistical Optimization to Augment the Photocatalytic Reduction of Brilliant Blue G-250 Using the Biogenic Semiconductor Nanorods: An Ecosafety Approach. <i>Journal of Cluster Science</i> , 2020, 31, 709-718.	1.7	2
72	A flavone derivative from <i>Andrographis echinoides</i> leaf extract positively alters the molecular targets of insulin signaling pathway. <i>South African Journal of Botany</i> , 2022, 146, 760-770.	1.2	2

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73	Traditional South Indian Herbal Plants for a Strong Immune System. , 2021, , 245-254.		1
74	Biopolymeric nanomaterials: design, synthesis, and applications. , 2021, , 1-12.		1
75	Anti-ovarian cancer potential of phytocompound and extract from South African medicinal plants and their role in the development of chemotherapeutic agents. American Journal of Cancer Research, 2021, 11, 1828-1844.	1.4	1
76	Zinc nanostructures: Toxicity, safety, and regulation in agroecosystems. , 2021, , 457-470.		0
77	Bioapplications of nanoparticles. , 2022, , 213-239.		0