

Sekar Vijayakumar

List of Publications by Year in descending order

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77
papers

3,268
citations

126907
33
h-index

155660
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.	3.6	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.	5.6	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.	3.9	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.	6.0	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.	2.9	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.	3.8	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.	2.9	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.	2.9	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.	3.8	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.	2.9	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.	3.6	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.	2.9	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.	3.8	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.	3.8	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.	2.2	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.	3.6	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.	7.5	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.	6.7	54

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19	Bioinspired Zinc Oxide Nanoparticles Using Lycopersicon esculentum for Antimicrobial and Anticancer Applications. Journal of Cluster Science, 2019, 30, 1465-1479.	3.3	50
20	Antibacterial and antibiofilm assessment of Momordica charantia fruit extract coated silver nanoparticle. Biocatalysis and Agricultural Biotechnology, 2016, 8, 189-196.	3.1	49
21	Antibiofilm, anti cancer and ecotoxicity properties of collagen based ZnO nanoparticles. Advanced Powder Technology, 2018, 29, 2331-2345.	4.1	49
22	Supramolecular hydrogels based on cellulose for sustained release of therapeutic substances with antimicrobial and wound healing properties. Carbohydrate Polymers, 2020, 242, 116383.	10.2	49
23	Two potential uses for silver nanoparticles coated with Solanum nigrum unripe fruit extract: Biofilm inhibition and photodegradation of dye effluent. Microbial Pathogenesis, 2017, 111, 316-324.	2.9	48
24	South Indian medicinal plants can combat deadly viruses along with COVID-19? - A review. Microbial Pathogenesis, 2020, 148, 104277.	2.9	48
25	Structural characterization of Bacillus licheniformis Dab1 exopolysaccharide's antimicrobial potential and larvicidal activity on malaria and Zika virus mosquito vectors. Environmental Science and Pollution Research, 2018, 25, 18604-18619.	5.3	44
26	Enhanced cancer therapy with pH-dependent and aptamer functionalized doxorubicin loaded polymeric (poly D, L-lactic-co-glycolic acid) nanoparticles. Archives of Biochemistry and Biophysics, 2019, 671, 143-151.	3.0	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. Journal of Trace Elements in Medicine and Biology, 2019, 55, 170-179.	3.0	42
28	The antibacterial, antibiofilm, antifogging and mosquitocidal activities of titanium dioxide (TiO ₂) nanoparticles green-synthesized using multiple plants extracts. Journal of Environmental Chemical Engineering, 2020, 8, 104521.	6.7	42
29	A Review on Aquatic Impacts of Microplastics and Its Bioremediation Aspects. Current Pollution Reports, 2021, 7, 286-299.	6.6	41
30	A novel antimicrobial therapy for the control of Aeromonas hydrophila infection in aquaculture using marine polysaccharide coated gold nanoparticle. Microbial Pathogenesis, 2017, 110, 140-151.	2.9	40
31	Chitosan-coated silver nanoparticles promoted antibacterial, antibiofilm, wound-healing of murine macrophages and antiproliferation of human breast cancer MCF 7 cells. Polymer Testing, 2020, 90, 106675.	4.8	40
32	High synergistic antibacterial, antibiofilm, antidiabetic and antimetabolic activity of Withania somnifera leaf extract-assisted zinc oxide nanoparticle. Bioprocess and Biosystems Engineering, 2020, 43, 1533-1547.	3.4	38
33	Control of biofilm forming clinically important bacteria by green synthesized ZnO nanoparticles and its ecotoxicity on Ceriodaphnia cornuta. Microbial Pathogenesis, 2017, 107, 88-97.	2.9	37
34	Nano Biomedical Potential of Biopolymer Chitosan-Capped Silver Nanoparticles with Special Reference to Antibacterial, Antibiofilm, Anticoagulant and Wound Dressing Material. Journal of Cluster Science, 2020, 31, 355-366.	3.3	37
35	Biological Compound Capping of Silver Nanoparticle with the Seed Extracts of Blackcumin (Nigella) Tj ETQq1 1 0.784314 rgBT /Overlock Inorganic and Organometallic Polymers and Materials, 2021, 31, 624-635.	3.7	35
36	Assessment of biopolymer stabilized silver nanoparticle for their ecotoxicity on Ceriodaphnia cornuta and antibiofilm activity. Journal of Environmental Chemical Engineering, 2016, 4, 2076-2083.	6.7	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.	4.5	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.	4.0	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.	1.5	25
40	Euphorbia rothiana-Fabricated Ag Nanoparticles Showed High Toxicity on Aedes aegypti 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.	3.3	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.	3.3	21
42	Ecotoxicity of Musa paradisiaca leaf extract-coated ZnO nanoparticles to the freshwater microcrustacean <i>Ceriodaphnia cornuta</i> . <i>Limnologica</i> , 2017, 67, 1-6.	1.5	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.	3.0	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.	7.3	20
45	In vitro antagonistic activity and the protective effect of probiotic <i>Bacillus licheniformis</i> Dab1 in zebrafish challenged with GFP tagged <i>Vibrio parahaemolyticus</i> Dab2. <i>Microbial Pathogenesis</i> , 2018, 114, 274-280.	2.9	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.	3.3	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.	3.3	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.	7.5	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.	2.9	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.	1.8	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.	6.7	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.	3.7	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.	6.7	13
54	Protective effects of dietary supplementation of probiotic <i>Bacillus licheniformis</i> Dab1 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.	2.6	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.	3.0	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.	4.5	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.	4.7	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.	10.2	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.	2.2	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.	4.1	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.	2.6	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	3.3	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.	3.0	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.	2.2	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.	3.3	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.	3.3	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.	3.0	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.	2.2	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.	3.7	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.	2.4	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.	3.3	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.	2.5	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 phytochemical 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