## Rajendran Rajaram

List of Publications by Year in descending order

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Version: 2024-02-01

112 papers 2,368 citations

201674 27 h-index 265206 42 g-index

114 all docs

 $\begin{array}{c} 114 \\ \text{docs citations} \end{array}$ 

times ranked

114

2813 citing authors

#	Article	IF	CITATIONS
1	Target delivery of doxorubicin tethered with PVP stabilized gold nanoparticles for effective treatment of lung cancer. Scientific Reports, 2018, 8, 3815.	3.3	124
2	Biosynthesis of silver nanoparticles from deep sea bacterium <i>Pseudomonas aeruginosa</i> JQ989348 for antimicrobial, antibiofilm, and cytotoxic activity. Journal of Basic Microbiology, 2014, 54, 928-936.	3 <b>.</b> 3	84
3	Biogenic gold nanoparticles induce cell cycle arrest through oxidative stress and sensitize mitochondrial membranes in A549 lung cancer cells. RSC Advances, 2016, 6, 20598-20608.	3.6	84
4	Human health risk assessment and bioaccumulation of trace metals in fish species collected from the Miri coast, Sarawak, Borneo. Marine Pollution Bulletin, 2018, 133, 655-663.	<b>5.</b> 0	84
5	Photocatalytic Degradation of Rhodamine B Using Zinc Oxide Activated Charcoal Polyaniline Nanocomposite and Its Survival Assessment Using Aquatic Animal Model. ACS Sustainable Chemistry and Engineering, 2018, 6, 258-267.	6.7	77
6	Toxic heavy metals in commercially important food fishes collected from Palk Bay, Southeastern India. Marine Pollution Bulletin, 2017, 119, 454-459.	<b>5.</b> 0	72
7	Structural characterization and anticancer activity (MCF7 and MDA-MB-231) of polysaccharides fractionated from brown seaweed Sargassum wightii. International Journal of Biological Macromolecules, 2018, 111, 1229-1237.	7.5	68
8	Development of thermostable amylase enzyme from Bacillus cereus for potential antibiofilm activity. Bioorganic Chemistry, 2018, 77, 494-506.	4.1	56
9	Bioaccumulation of trace metals in the coastal Borneo (Malaysia) and health risk assessment. Marine Pollution Bulletin, 2019, 145, 56-66.	5.0	56
10	Optimization, compositional analysis, and characterization of exopolysaccharides produced by multi-metal resistant Bacillus cereus KMS3-1. Carbohydrate Polymers, 2020, 227, 115369.	10.2	52
11	Production and functionality of exopolysaccharides in bacteria exposed to a toxic metal environment. Ecotoxicology and Environmental Safety, 2021, 208, 111567.	6.0	51
12	Gold nanoparticle induces mitochondria-mediated apoptosis and cell cycle arrest in nonsmall cell lung cancer cells. Gold Bulletin, 2017, 50, 177-189.	2.4	49
13	First report on distribution of heavy metals and proximate analysis in marine edible puffer fishes collected from Gulf of Mannar Marine Biosphere Reserve, South India. Toxicology Reports, 2017, 4, 319-327.	3.3	49
14	Trace metal dynamics and risk assessment in the commercially important marine shrimp species collected from the Miri coast, Sarawak, East Malaysia. Regional Studies in Marine Science, 2017, 16, 79-88.	0.7	44
15	Isatin based macrocyclic Schiff base ligands as novel candidates for antimicrobial and antioxidant drug design: In vitro DNA binding and biological studies. Journal of Photochemistry and Photobiology B: Biology, 2018, 183, 191-200.	3.8	43
16	Electrocatalytic oxidation of NADH at low overpotential using nanoporous poly(3,4)-ethylenedioxythiophene modified glassy carbon electrode. Journal of Electroanalytical Chemistry, 2015, 746, 75-81.	3.8	42
17	Metals accumulation in edible marine algae collected from Thondi coast of Palk Bay, Southeastern India. Chemosphere, 2019, 221, 856-862.	8.2	42
18	Evaluation of antidiabetic activity of bud and flower of Avaram Senna (Cassia auriculata L.) In high fat diet and streptozotocin induced diabetic rats. Biomedicine and Pharmacotherapy, 2018, 108, 1495-1506.	5.6	40

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19	Marine steroid derived from Acropora formosa enhances mitochondrial-mediated apoptosis in non-small cell lung cancer cells. Tumor Biology, 2016, 37, 10517-10531.	1.8	39
20	Health risk assessment and potentiality of green seaweeds on bioaccumulation of trace elements along the Palk Bay coast, Southeastern India. Marine Pollution Bulletin, 2020, 154, 111069.	5.0	38
21	Anthropogenic influences on toxic metals in water and sediment samples collected from industrially polluted Cuddalore coast, Southeast coast of India. Environmental Earth Sciences, 2014, 72, 997-1010.	2.7	37
22	Green fabrication of iron oxide nanoparticles using grey mangrove Avicennia marina for antibiofilm activity and in vitro toxicity. Surfaces and Interfaces, 2019, 15, 70-77.	3.0	37
23	A paradoxical role of reactive oxygen species in cancer signaling pathway: Physiology and pathology. Process Biochemistry, 2021, 100, 69-81.	3.7	37
24	Bioremediation of Industrial Waste Through Enzyme Producing Marine Microorganisms. Advances in Food and Nutrition Research, 2017, 80, 165-179.	3.0	33
25	An electrochemical sensor for homocysteine detection using gold nanoparticle incorporated reduced graphene oxide. Colloids and Surfaces B: Biointerfaces, 2018, 170, 109-114.	5.0	33
26	Production and structure elucidation of anticancer potential surfactin from marine actinomycete Micromonospora marina. Process Biochemistry, 2019, 78, 169-177.	3.7	32
27	p53 mediated transcriptional regulation of long non-coding RNA by 1-hydroxy-1-norresistomycin triggers intrinsic apoptosis in adenocarcinoma lung cancer. Chemico-Biological Interactions, 2018, 287, 1-12.	4.0	30
28	Influence of physicochemical water quality on aquatic macrophyte diversity in seasonal wetlands. Applied Water Science, 2019, 9, 1.	5.6	30
29	Tailoring Cu substituted hydroxyapatite/functionalized multiwalled carbon nanotube composite coating on 316L SS implant for enhanced corrosion resistance, antibacterial and bioactive properties. International Journal of Pharmaceutics, 2020, 590, 119946.	5.2	30
30	Antifouling potentials of extracts from seaweeds, seagrasses and mangroves against primary biofilm forming bacteria. Asian Pacific Journal of Tropical Biomedicine, 2012, 2, S316-S322.	1.2	29
31	Survival assessment of simple food webs for dye wastewater after photocatalytic degradation using SnO2/GO nanocomposites under sunlight irradiation. Science of the Total Environment, 2020, 721, 137805.	8.0	28
32	Multivariate statistical and GIS-based approaches for toxic metals in tropical mangrove ecosystem, southeast coast of India. Environmental Monitoring and Assessment, 2017, 189, 288.	2.7	27
33	Bioaccumulation and translocation of heavy metals in mangrove rhizosphere sediments to tissues of Avicenia marina – A field study from tropical mangrove forest. Environmental Nanotechnology, Monitoring and Management, 2018, 10, 272-279.	2.9	27
34	Enhanced antimicrobial, antioxidant and anticancer activity of Rhizophora apiculata: An experimental report. 3 Biotech, 2018, 8, 200.	2.2	26
35	Chemical fabrication of graphene oxide nanosheets attenuates biofilm formation of human clinical pathogens. Bioorganic Chemistry, 2019, 83, 326-335.	4.1	26
36	Health risk assessment and bioaccumulation of toxic metals in commercially important finfish and shellfish resources collected from Tuticorin coast of Gulf of Mannar, Southeastern India. Marine Pollution Bulletin, 2020, 159, 111469.	5.0	26

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37	Assessment of potential human health risk due to heavy metal contamination in edible finfish and shellfish collected around Ennore coast, India. Environmental Science and Pollution Research, 2021, 28, 8151-8167.	5.3	26
38	Biosorption of Cu (II) ions by indigenous copper-resistant bacteria isolated from polluted coastal environment. Toxicological and Environmental Chemistry, 2013, 95, 590-604.	1.2	25
39	Bioaccumulation and translocation efficacy of heavy metals by Rhizophora mucronata from tropical mangrove ecosystem, Southeast coast of India. Ecohydrology and Hydrobiology, 2019, 19, 66-74.	2.3	25
40	Adsorption of cesium ion by marine actinobacterium Nocardiopsis sp. 13H and their extracellular polymeric substances (EPS) role in bioremediation. Environmental Science and Pollution Research, 2018, 25, 4254-4267.	5.3	23
41	Bioactive DOPA melanin isolated and characterised from a marine actinobacterium i>Streptomyces i>sp. MVCS6 from Versova coast. Natural Product Research, 2015, 29, 2117-2121.	1.8	22
42	Flow of toxic metals in food-web components of tropical mangrove ecosystem, Southern India. Human and Ecological Risk Assessment (HERA), 2018, 24, 1367-1387.	3.4	22
43	Size-dependent antimycobacterial activity of titanium oxide nanoparticles against <i>Mycobacterium tuberculosis</i> . Journal of Materials Chemistry B, 2019, 7, 4338-4346.	5.8	22
44	Antioxidant activity of 1-hydroxy-1-norresistomycin derived from Streptomyces variabilis KP149559 and evaluation of its toxicity against zebra fish Danio rerio. RSC Advances, 2016, 6, 16615-16623.	3.6	19
45	Bioaccumulation of heavy metals, antioxidants, and metabolic enzymes in the crab Scylla serrata from different regions of Tuticorin, Southeast Coast of India. Marine Pollution Bulletin, 2020, 158, 111443.	5.0	19
46	Biosorption of Cd(II) and Cu(II) ions using <i>Lysinibacillus fusiformis</i> KMNTT-10: equilibrium and kinetic studies. Desalination and Water Treatment, 2016, 57, 22429-22440.	1.0	18
47	Assessment of renal and hepatic dysfunction by co-exposure to toxic metals (Cd, Pb) and fluoride in people living nearby an industrial zone. Journal of Trace Elements in Medicine and Biology, 2022, 69, 126890.	3.0	18
48	Development of glycolipid biosurfactant for inducing apoptosis in HeLa cells. RSC Advances, 2016, 6, 64087-64096.	3.6	17
49	Isolation and characterisation of cadmium-resistant bacteria from an industrially polluted coastal ecosystem on the southeast coast of India. Chemistry and Ecology, 2014, 30, 622-635.	1.6	16
50	Au Nanoparticle-decorated Nanoporous PEDOT Modified Glassy Carbon Electrode: A New Electrochemical Sensing Platform for the Detection of Glutathione. Biotechnology and Bioprocess Engineering, 2020, 25, 715-723.	2.6	16
51	Heavy metals accumulation in seagrasses collected from Palk Bay, South-eastern India. Marine Pollution Bulletin, 2020, 157, 111305.	5.0	16
52	In vitro and in silico approaches of antibiofilm activity of 1-hydroxy-1-norresistomycin against human clinical pathogens. Microbial Pathogenesis, 2019, 132, 343-354.	2.9	15
53	Amperometric determination of Myo-inositol using a glassy carbon electrode modified with nanostructured copper sulfide. Mikrochimica Acta, 2020, 187, 334.	5.0	15
54	A simple conversion of expired medicines into nontoxic activated carbon for energy storage applications. International Journal of Energy Research, 2022, 46, 4380-4392.	4.5	13

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55	Biosorption potential of <i>Lysinibacillus fusiformis</i> KMNTT-10 biomass in removing lead(II) from aqueous solutions. Separation Science and Technology, 2018, 53, 1991-2003.	2.5	12
56	Biosorption of Long Half-life Radionuclide of Strontium Ion (Sr <sup>+</sup> ) by Marine Actinobacterium <i>Nocardiopsis</i> ) 13H. Geomicrobiology Journal, 2018, 35, 300-310.	2.0	12
57	Influence of different diets on the growth, survival, fecundity and proximate composition of brine shrimp <i>Artemia franciscana</i> (Kellog, 1906). Aquaculture Research, 2019, 50, 376-389.	1.8	12
58	Sonochemical Assisted Leaching of Aluminium Oxide Nanoparticles from Domestic Aluminium Wastes as Non-Toxic Electrode Material for Energy Storage Application. Journal of the Electrochemical Society, 2020, 167, 110541.	2.9	12
59	Ecological risk assessment of toxic metals contamination in Tuticorin coast of Gulf of Mannar, Southern India. Chemistry and Ecology, 2021, 37, 132-148.	1.6	12
60	Cardiovascular dysfunction and oxidative stress following human contamination by fluoride along with environmental xenobiotics (Cd & amp; Pb) in the phosphate treatment area of Togo, West Africa. Journal of Trace Elements in Medicine and Biology, 2019, 56, 13-20.	3.0	11
61	Anti-candidal and anti-virulence efficiency of selected seaweeds against azole resistance Candida albicans. Biocatalysis and Agricultural Biotechnology, 2019, 20, 101195.	3.1	11
62	Investigation of Antimicrobial activity of CTAB assisted hydrothermally derived Nano BaTiO <sub>3</sub> . Materials Research Express, 2019, 6, 025408.	1.6	11
63	Synergistic effect of novel chitosan combined metformin drug on streptozotocin-induced diabetes mellitus rat. International Journal of Biological Macromolecules, 2020, 153, 1335-1349.	7.5	11
64	Health risk assessment and bioaccumulation of metals in brown and red seaweeds collected from a tropical marine biosphere reserve. Marine Pollution Bulletin, 2021, 164, 112029.	5.0	11
65	Photocatalytic activity of SnO2/Fe3O4 nanocomposites and the toxicity assessment of Vigna radiata, Artemia salina and Danio rerio in the photodegraded solution. Environmental Research, 2021, 195, 110787.	7.5	11
66	Seasonal distribution of physico- chemical parameters in effluent discharge area of Uppanar estuary, Cuddalore, south-east coast of India. Journal of Environmental Biology, 2005, 26, 291-7.	0.5	10
67	Melanin from marine Streptomyces sp. (MVCS13) with potential effect against ornamental fish pathogens of Carassius auratus (Linnaeus, 1758). Biocatalysis and Agricultural Biotechnology, 2014, 3, 134-141.	3.1	9
68	Anthropogenic Influence of Heavy Metal Pollution on the Southeast Coast of India., 2019,, 381-399.		9
69	Assessment of Heavy Metals Pollution in Noyyal and Chinnar Rivers, Western Ghats of Tamil Nadu, India with Reference to Crabs (Gecarcinucidae)–A Baseline Study. Bulletin of Environmental Contamination and Toxicology, 2020, 105, 538-545.	2.7	9
70	Isolation and characterization of biologically active alkaloids from marine actinobacteria Nocardiopsis sp. NCS1. Biocatalysis and Agricultural Biotechnology, 2015, 4, 63-69.	3.1	8
71	Bioaccumulation of metals in mangroves and salt marshes collected from Tuticorin coast of Gulf of Mannar marine biosphere reserve, Southeastern India. Marine Pollution Bulletin, 2020, 160, 111599.	5.0	8
72	Callophycin A loaded chitosan and spicules based nanocomposites as an alternative strategy to overcome vaginal candidiasis. International Journal of Biological Macromolecules, 2020, 161, 656-665.	7.5	8

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73	Phytochemical profiling and antioxidant capacity of <i>Kappaphycus alvarezii</i> (Doty) Doty collected from seaweed farming sites of tropical coastal environment. Aquaculture Research, 2021, 52, 3438-3448.	1.8	8
74	Removal of Cd(II) and Cu(II) from Aqueous Solutions by Pseudomonas stutzeri KMNTT-01 Biomass. Environmental Processes, 2016, 3, 857-874.	3 <b>.</b> 5	7
75	Experimental cultivation of invasive seaweed Kappaphycus alvarezii (Doty) Doty with assessment of macro and meiobenthos diversity from Tuticorin coast, Southeast coast of India. Regional Studies in Marine Science, 2017, 9, 117-125.	0.7	7
76	2-Ethoxycarbonyl- $2-\hat{l}^2$ -hydroxy-a-nor-cholest-5-ene-4one: Extraction, structural characterization, antimicrobial, antioxidant, anticancer and acute toxicity studies. Steroids, 2018, 140, 11-23.	1.8	7
77	Muscle extract of Arothron immaculatus regulates the blood glucose level and the antioxidant system in high-fat diet and streptozotocin induced diabetic rats. Bioorganic Chemistry, 2019, 90, 103072.	4.1	7
78	Avian feathers as a biomonitoring tool to assess heavy metal pollution in a wildlife and bird sanctuary from a tropical coastal ecosystem. Environmental Science and Pollution Research, 2021, 28, 38263-38273.	<b>5.</b> 3	7
79	Ecological risk assessment and seasonal variation of heavy metals in water and sediment collected from industrially polluted Cuddalore coast, Southeastern India. Regional Studies in Marine Science, 2022, 49, 102134.	0.7	7
80	Dinuclear rectangular-shaped assemblies of bis-benzimidazolydine salt coordinated to Ag(I) and Cu(I) N-heterocyclic carbene complexes and their biological applications. Chemical Papers, 2018, 72, 3017-3031.	2.2	6
81	In Vitro and In Silico Analysis of Ascorbic Acid Towards Lanosterol 14-α-Demethylase Enzyme of Fluconazole-Resistant Candida albicans. Current Microbiology, 2021, 78, 292-302.	2.2	6
82	Tuning the oxygen reduction reactivity of interconnected porous carbon by incorporation of phosphorus and activity enhancement through blending with 2D metal dichalcogenides materials. International Journal of Hydrogen Energy, 2018, 43, 4738-4745.	7.1	5
83	Accumulation of Heavy Metals in Some Marine Fisheries Resources Collected from Gulf of Mannar Marine Biosphere Reserve, Southeast Coast of India. Proceedings of the Zoological Society, 2018, 71, 294-298.	1.0	5
84	Effects of different culture periods of commercial invasive red alga Kappaphycus alvarezii (Doty) Doty on plankton community structures in tropical marine environment, Southeast coast of India. Regional Studies in Marine Science, 2019, 32, 100906.	0.7	5
85	New insight of red seaweed derived Callophycin A as an alternative strategy to treat drug resistance vaginal candidiasis. Bioorganic Chemistry, 2020, 104, 104256.	4.1	5
86	Structural Characterization, Antimicrobial, Antibiofilm, Antioxidant, Anticancer and Acute Toxicity Properties of N-(2-hydroxyphenyl)-2-phenazinamine From Nocardiopsis exhalans (KP149558). Frontiers in Cellular and Infection Microbiology, 0, 12, .	3.9	5
87	Consumption of metal-contaminated shellfish from the Cuddalore coast in Southeastern India poses a hazard to public health. Marine Pollution Bulletin, 2022, 181, 113827.	5.0	5
88	Real time PCR quantification of WSSV infection in specific pathogen free (SPF) Litopenaeus vannamei (Boone, 1931) exposed to antiviral nucleotide. Asian Pacific Journal of Tropical Biomedicine, 2012, 2, S1120-S1129.	1.2	4
89	Anti-candidal activity and synergetic interaction of antifungal drugs with differential extract of brown algae Stocheospermum marginatum. Biocatalysis and Agricultural Biotechnology, 2019, 19, 101145.	3.1	4
90	Impact of Seaweed Farming on Socio-Economic Development of a Fishing Community in Palk Bay, Southeast Coast of India., 2019,, 501-513.		4

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91	Killing effects of Candida albicans through alteration of cellular morphology and growth metabolism using Tris-NHC ligand coordinated to AgI and CuI. Journal of Molecular Structure, 2021, 1225, 129117.	3.6	4
92	Evaluation of toxic metal contaminants in the demersal flatfishes (Order: Pleuronectiformes) collected from a marine biosphere reserve. Regional Studies in Marine Science, 2021, 42, 101649.	0.7	4
93	Sunlight-irradiated bismuth titanate nanoparticles mediated degradation of methylene blueâ€"Ecological perspectives. Environmental Technology and Innovation, 2022, 27, 102749.	6.1	4
94	Chemical characterization and bioactivity evaluation of bacteriocin from marine biofilm-forming bacteria. African Journal of Microbiology Research, 2014, 8, 3617-3624.	0.4	3
95	Prevalence of cymothoid isopods (Crustacea, Isopoda) and proximate analysis of parasites and their host fishes, Southeastern India. Journal of Parasitic Diseases, 2018, 42, 259-268.	1.0	3
96	Fatty Acid Profiling of Commercially Important Raw and Boiled Seer Fish Scomberomorus commerson (Lacepede, 1800) (Scombridae, Teleostei, Pisces). Proceedings of the Zoological Society, 2018, 71, 146-152.	1.0	3
97	Lanosterol expressed bio-fouling inhibition on Gulf of Mannar coast, India. Progress in Organic Coatings, 2018, 115, 100-106.	3.9	3
98	Morphological variations in marine pufferfish and porcupinefish (Teleostei: Tetraodontiformes) from Tamil Nadu, southeastern coast of India. Journal of Threatened Taxa, 2018, 10, 12726-12737.	0.3	3
99	Metal-associated human health risk assessment due to consumption of pelagic and benthic ichthyofaunal resources from the highly contaminated Cuddalore coast in Southern India. Marine Pollution Bulletin, 2022, 176, 113456.	5.0	3
100	Antifungal susceptibility and virulence profile of candida isolates from abnormal vaginal discharge of women from southern India. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2020, 254, 153-158.	1.1	2
101	Impacts of cultivation of red algae Kappaphycus alvarezii on planktonic and benthic faunal density in relation to environmental and hydrobiological parameters in tropical coastal ecosystem. Acta Ecologica Sinica, 2021, 41, 39-49.	1.9	2
102	Metal accumulation and biomineralisation of coastal and mangrove-associated molluscs of Palk Bay, Southeastern India. Marine Pollution Bulletin, 2021, 167, 112259.	5.0	2
103	Additional description of the Algae Hydroid Thyroscyphus ramosus (Hydrozoa: Leptothecata:) Tj ETQq1 1 0.7843 Threatened Taxa, 2020, 12, 15852-15863.	14 rgBT /0.3	Overlock 10 2
104	Functionalized carbon nanomaterials in electrochemical detection., 2022,, 73-95.		2
105	Are pufferfishes a viable source of nutritional value for human consumption—an investigation on recently commercialized marine pufferfishes (Tetraodontidae:ÂTetraodontiformes). Environmental Science and Pollution Research, 2022, 29, 47350-47362.	5.3	2
106	Understanding the role of glucose oxidase on carbon felt as electrodes in biocapacitor studies. Bulletin of Materials Science, 2019, 42, 1.	1.7	1
107	Analysis of mtCOI and 18S rRNA Sequence-Based Characterization of Recently Commercialized Marine Edible Pufferfishes. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2020, 90, 391-403.	1.0	1
108	Identification of Heavy Metal Pollution Source Due to Idol Immersion Activity Across the Cauvery River Basin, Tamil Nadu, South India. Current Science, 2021, 120, 200.	0.8	1

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109	Influence of physico-chemical parameters on population structure and length-weight relationship of Artemia franciscana. Journal of Experimental Biology and Agricultural Sciences, 2017, 5, 126-133.	0.4	1
110	Abundance of anemone fishes in North Bay Island and mass culture of live food organisms for their larval rearing. Journal of Fisheries, 2014, 2, 173.	0.3	1
111	Baseline assessment of marine actinobacterial diversity around the nuclear power plant sites, India and its application to uranium remediation. Environmental Research, 2022, 212, 113135.	7.5	1
112	Distribution of Marine Puffer and Porcupinefishes (Order: Tetraodontiformes) from Tamil Nadu Coast, Southern India. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2021, 91, 153-162.	1.0	0