

Senthilkumar Balakrishnan

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

11,567
citations

236925

25
h-index

149698

56
g-index

58
all docs

58
docs citations

58
times ranked

13935
citing authors

#	ARTICLE	IF	CITATIONS
1	Global burden of 369 diseases and injuries in 204 countries and territories, 1990â€“2019: a systematic analysis for the Global Burden of Disease Study 2019. <i>Lancet, The</i> , 2020, 396, 1204-1222.	13.7	7,664
2	Global, Regional, and National Cancer Incidence, Mortality, Years of Life Lost, Years Lived With Disability, and Disability-Adjusted Life-Years for 29 Cancer Groups, 1990 to 2017. <i>JAMA Oncology</i> , 2019, 5, 1749.	7.1	1,691
3	Cancer Incidence, Mortality, Years of Life Lost, Years Lived With Disability, and Disability-Adjusted Life Years for 29 Cancer Groups From 2010 to 2019. <i>JAMA Oncology</i> , 2022, 8, 420.	7.1	719
4	Measuring routine childhood vaccination coverage in 204 countries and territories, 1980â€“2019: a systematic analysis for the Global Burden of Disease Study 2020, Release 1. <i>Lancet, The</i> , 2021, 398, 503-521.	13.7	93
5	Mapping geographical inequalities in access to drinking water and sanitation facilities in low-income and middle-income countries, 2000â€“17. <i>The Lancet Global Health</i> , 2020, 8, e1162-e1185.	6.3	91
6	Eco-friendly biosynthesis and characterization of silver nanoparticles using <i>Tinospora cordifolia</i> (Thunb.) Miers and evaluate its antibacterial, antioxidant potential. <i>Journal of Radiation Research and Applied Sciences</i> , 2017, 10, 6-12.	1.2	90
7	Biosynthesis of silver nanoparticles using <i>Acacia leucophloea</i> extract and their antibacterial activity. <i>International Journal of Nanomedicine</i> , 2014, 9, 2431.	6.7	77
8	Mapping geographical inequalities in childhood diarrhoeal morbidity and mortality in low-income and middle-income countries, 2000â€“17: analysis for the Global Burden of Disease Study 2017. <i>Lancet, The</i> , 2020, 395, 1779-1801.	13.7	72
9	Mapping routine measles vaccination in low- and middle-income countries. <i>Nature</i> , 2021, 589, 415-419.	27.8	71
10	Green biomimetic silver nanoparticles utilizing the red algae <i>Amphiroa rigida</i> and its potent antibacterial, cytotoxicity and larvicidal efficiency. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 217-223.	3.4	55
11	<i>Acorus calamus</i> rhizome extract mediated biosynthesis of silver nanoparticles and their bactericidal activity against human pathogens. <i>Journal of Genetic Engineering and Biotechnology</i> , 2015, 13, 93-99.	3.3	50
12	Eco-friendly cost-effective approach for synthesis of copper oxide nanoparticles for enhanced photocatalytic performance. <i>Optik</i> , 2020, 202, 163507.	2.9	48
13	Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017. <i>Nature Medicine</i> , 2020, 26, 750-759.	30.7	47
14	Optimization of protease production from surface-modified coffee pulp waste and corncobs using <i>Bacillus</i> sp. by SSF. <i>3 Biotech</i> , 2016, 6, 167.	2.2	44
15	Multidrug Resistant <i>Salmonella typhi</i> in Asymptomatic Typhoid Carriers among Food Handlers in Namakkal District, Tamil Nadu. <i>Indian Journal of Medical Microbiology</i> , 2005, 23, 92.	0.8	43
16	Cellulase enzyme: Homology modeling, binding site identification and molecular docking. <i>Journal of Molecular Structure</i> , 2017, 1150, 61-67.	3.6	41
17	Bacterial profile of urinary tract infection and antimicrobial susceptibility pattern among pregnant women attending at Antenatal Clinic in Dil Chora Referral Hospital, Dire Dawa, Eastern Ethiopia. <i>Therapeutics and Clinical Risk Management</i> , 2016, 12, 251.	2.0	40
18	Bacterial contamination of mobile phones of health professionals in Eastern Ethiopia: antimicrobial susceptibility and associated factors. <i>Tropical Medicine and Health</i> , 2019, 47, 15.	2.8	40

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19	Process optimization of cellulase production from alkali-treated coffee pulp and pineapple waste using <i>Acinetobacter</i> sp. TSK-MASC. <i>RSC Advances</i> , 2014, 4, 13045-13051.	3.6	37
20	Biosynthesis of silver nanoparticles using <i>Myristica fragrans</i> seed (nutmeg) extract and its antibacterial activity against multidrug-resistant (MDR) <i>Salmonella enterica</i> serovar Typhi isolates. <i>Environmental Science and Pollution Research</i> , 2017, 24, 14758-14769.	5.3	35
21	Syntheses, physicochemical characterization, antibacterial studies on potassium morpholine dithiocarbamate nickel (II), copper (II) metal complexes and their ligands. <i>Heliyon</i> , 2019, 5, e01687.	3.2	35
22	Production of bacteriocin and their application in food products. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2012, 2, S406-S410.	1.2	32
23	Subnational mapping of HIV incidence and mortality among individuals aged 15–49 years in sub-Saharan Africa, 2000–18: a modelling study. <i>Lancet HIV</i> , 2021, 8, e363-e375.	4.7	32
24	Evaluation of the saccharification and fermentation process of two different seaweeds for an ecofriendly bioethanol production. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 14, 444-449.	3.1	31
25	Progress in health among regions of Ethiopia, 1990–2019: a subnational country analysis for the Global Burden of Disease Study 2019. <i>Lancet</i> , 2022, 399, 1322-1335.	13.7	28
26	Activity and stability of bacterial cellulase immobilized on magnetic nanoparticles. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1891-1898.	14.0	27
27	Physical chemical and biological characterization of a new bacteriocin produced by <i>Bacillus cereus</i> NS02. <i>Asian Pacific Journal of Tropical Medicine</i> , 2013, 6, 934-941.	0.8	25
28	Production and purification of laccase by <i>Bacillus</i> sp. using millet husks and its pesticide degradation application. <i>3 Biotech</i> , 2019, 9, 396.	2.2	23
29	Prevalence, Antimicrobial Susceptibility Pattern of Bacterial Isolates, and Associated Factors of Urinary Tract Infections among HIV-Positive Patients at Hiwot Fana Specialized University Hospital, Eastern Ethiopia. <i>Canadian Journal of Infectious Diseases and Medical Microbiology</i> , 2019, 2019, 1-8.	1.9	23
30	Mapping geographical inequalities in oral rehydration therapy coverage in low-income and middle-income countries, 2000–17. <i>The Lancet Global Health</i> , 2020, 8, e1038-e1060.	6.3	23
31	Enhanced production of amylase from <i>Bacillus</i> sp. using groundnut shell and cassava waste as a substrate under process optimization: Waste to wealth approach. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016, 7, 250-256.	3.1	22
32	An eco-friendly detoxification of chlorpyrifos by <i>Bacillus cereus</i> MCAS02 native isolate from agricultural soil, Namakkal, Tamil Nadu, India. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 13, 283-290.	3.1	21
33	Antiquorum sensing and antibiofilm potential of biosynthesized silver nanoparticles of <i>Myristica fragrans</i> seed extract against MDR <i>Salmonella enterica</i> serovar Typhi isolates from asymptomatic typhoid carriers and typhoid patients. <i>Environmental Science and Pollution Research</i> , 2020, 27, 2844-2856.	5.3	18
34	Bacteriocin—a potential antimicrobial peptide towards disrupting and preventing biofilm formation in the clinical and environmental locales. <i>Environmental Science and Pollution Research</i> , 2020, 27, 44922-44936.	5.3	18
35	Biomimetic synthesis of copper nanoparticles using rhizome extract of <i>Corallocarbus epigaeus</i> and their bactericidal with photocatalytic activity. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	16
36	Effect of <i>ompR</i> gene mutation in expression of <i>ompC</i> and <i>ompF</i> of <i>Salmonella typhi</i> . <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2010, 2, 157-162.	3.6	13

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37	An epidemiological surveillance of asymptomatic typhoid carriers associated in respect to socioeconomic status in India. <i>Zeitschrift Fur Gesundheitswissenschaften</i> , 2014, 22, 297-301.	1.6	13
38	Characterization of bacteriocin producing lactic acid bacteria and its application as a food preservative. <i>African Journal of Microbiology Research</i> , 2012, 6, 1138-1146.	0.4	11
39	Phytochemical screening, gas chromatography-mass spectrometry (GC-MS) analysis of phytochemical constituents and anti-bacterial activity of <i>Aerva lanata</i> (L.) leaves. <i>African Journal of Pharmacy and Pharmacology</i> , 2014, 8, 126-135.	0.3	11
40	Molecular modeling and docking of protease from <i>Bacillus</i> sp. for the keratin degradation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 13, 95-104.	3.1	11
41	Assessment of Antioxidant, Antibacterial Activities and Bioactive Compounds of the Wild Edible Mushroom <i>Pleurotus sajor-caju</i> . <i>International Journal of Peptide Research and Therapeutics</i> , 2020, 26, 1575-1581.	1.9	11
42	Optimization of low-cost biosurfactant produced by <i>Bacillus subtilis</i> SASCBT01 and their environmental remediation potential. <i>Letters in Applied Microbiology</i> , 2021, 72, 74-81.	2.2	9
43	Optimization of <i>Lactobacillus brevis</i> NS01 Brevicin Production and Its Application in Apple Juice Biopreservation Using Food-Grade Clarifying Agent Silica as a Carrier. <i>Food and Bioprocess Technology</i> , 2015, 8, 1750-1761.	4.7	8
44	Facile approach for phytosynthesis of gold nanoparticles from <i>Corallocarbus epigaeus</i> rhizome extract and their biological assessment. <i>Materials Research Express</i> , 2019, 6, 1250c1.	1.6	8
45	Screening, phylogenetic analysis and antibiotic sensitivity pattern of <i>Salmonella enterica</i> serovar Typhi isolates from typhoid asymptomatic carriers. <i>Asian Pacific Journal of Tropical Medicine</i> , 2011, 4, 769-772.	0.8	7
46	A prevalence study of typhoid fever and convalescent phase asymptomatic typhoid carriers among the schoolchildren in the northern part of Tamil Nadu. <i>Zeitschrift Fur Gesundheitswissenschaften</i> , 2015, 23, 373-378.	1.6	7
47	Analysis of salivary level <i>Lactobacillus</i> spp. and associated factors as determinants of dental caries amongst primary school children in Harar town, eastern Ethiopia. <i>BMC Pediatrics</i> , 2020, 20, 18.	1.7	7
48	A comparative analysis of TLR5 polymorphism and clinical parameters in typhoid patients and asymptomatic typhoid carriers. <i>Zeitschrift Fur Gesundheitswissenschaften</i> , 2014, 22, 131-137.	1.6	5
49	Molecular Phylogenetic Approach for Classification of <i>Salmonella typhi</i> . <i>Research Journal of Microbiology</i> , 2012, 7, 13-22.	0.2	5
50	Prevalence of childhood diarrhea and associated risk factors in Dire Dawa, eastern Ethiopia. <i>Zeitschrift Fur Gesundheitswissenschaften</i> , 2018, 26, 29-37.	1.6	4
51	Phenotypic Assessment of Probiotic and Bacteriocinogenic Efficacy of Indigenous LAB Strains from Human Breast Milk. <i>Current Issues in Molecular Biology</i> , 2022, 44, 731-749.	2.4	4
52	Induction of deletion mutation on <i>ompR</i> gene of <i>Salmonella enterica</i> serovar Typhi isolates from asymptomatic typhoid carriers to evolve attenuated strains for vaccine development. <i>Asian Pacific Journal of Tropical Medicine</i> , 2014, 7, 933-939.	0.8	3
53	Effect of <i>Bacillus cereus</i> peptide conjugated with nanoporous silica on inactivation of <i>Listeria monocytogenes</i> in apple juice, as an ecofriendly preservative. <i>Environmental Science and Pollution Research</i> , 2018, 25, 29345-29355.	5.3	3
54	Antagonistic effect of brevicin on Gram positive and Gram negative food borne bacteria and its biopreservative efficacy in milk. <i>African Journal of Biotechnology</i> , 2013, 12, 175-185.	0.6	2

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55	Analysis of TLR polymorphisms in typhoid patients and asymptomatic typhoid carriers among the schoolchildren. Egyptian Journal of Medical Human Genetics, 2016, 17, 353-357.	1.0	2
56	Production of eco-friendly PHB-based bioplastics by Pseudomonas aeruginosa CWS2020 isolate using poultry (chicken feather) waste. Biologia Futura, 2021, 72, 497-508.	1.4	1
57	Statistical Optimization of Bioprocess Parameters for Improved Production of L-Asparaginase from Lactobacillus plantarum. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2021, 91, 441-453.	1.0	0