

Gothandam Kodiveri Muthukaliannan

List of Publications by Year in descending order

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111
papers

1,895
citations

236612

25
h-index

329751

37
g-index

117
all docs

117
docs citations

117
times ranked

2629
citing authors

#	ARTICLE	IF	CITATIONS
1	OsPPR1, a pentatricopeptide repeat protein of rice is essential for the chloroplast biogenesis. <i>Plant Molecular Biology</i> , 2005, 58, 421-433.	2.0	118
2	Prognostic significance of blood inflammatory biomarkers NLR, PLR, and LMR in cancer—A protocol for systematic review and meta-analysis. <i>Medicine (United States)</i> , 2019, 98, e14834.	0.4	78
3	Phloretin loaded chitosan nanoparticles augments the pH-dependent mitochondrial-mediated intrinsic apoptosis in human oral cancer cells. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 997-1008.	3.6	67
4	OsPPR3, a flower specific proline-rich protein of rice, determines extracellular matrix structure of floral organs and its overexpression confers cold-tolerance. <i>Plant Molecular Biology</i> , 2010, 72, 125-135.	2.0	66
5	BcXTH1, a <i>Brassica campestris</i> homologue of <i>Arabidopsis</i> XTH9, is associated with cell expansion. <i>Planta</i> , 2006, 224, 32-41.	1.6	65
6	Bicarbonate supplementation enhances growth and biochemical composition of <i>Dunaliella salina</i> V-101 by reducing oxidative stress induced during macronutrient deficit conditions. <i>Scientific Reports</i> , 2018, 8, 6972.	1.6	62
7	Screening and optimization of protease production from a halotolerant <i>Bacillus licheniformis</i> isolated from saltern sediments. <i>Journal of Genetic Engineering and Biotechnology</i> , 2013, 11, 47-52.	1.5	54
8	Prognostic Utility of Platelet-Lymphocyte Ratio, Neutrophil-Lymphocyte Ratio and Monocyte-Lymphocyte Ratio in Head and Neck Cancers: A Detailed PRISMA Compliant Systematic Review and Meta-Analysis. <i>Cancers</i> , 2021, 13, 4166.	1.7	51
9	A review on edible vaccines and their prospects. <i>Brazilian Journal of Medical and Biological Research</i> , 2020, 53, e8749.	0.7	47
10	Systematic functional analysis and application of a cold-active serine protease from a novel <i>Chryseobacterium</i> sp.. <i>Food Chemistry</i> , 2017, 217, 18-27.	4.2	40
11	Immunomodulatory activity of methanolic extract of <i>Amorphophallus commutatus</i> var. <i>wayanadensis</i> under normal and cyclophosphamide induced immunosuppressive conditions in mice models. <i>Food and Chemical Toxicology</i> , 2015, 81, 151-159.	1.8	39
12	Effect of drying methods (microwave vacuum, freeze, hot air and sun drying) on physical, chemical and nutritional attributes of five pepper (<i>Capsicum annuum</i> var. <i>annuum</i>) cultivars. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 3492-3500.	1.7	38
13	Prospects and progress in the production of valuable carotenoids: Insights from metabolic engineering, synthetic biology, and computational approaches. <i>Journal of Biotechnology</i> , 2018, 266, 89-101.	1.9	35
14	Prognostic Value of miRNAs in Head and Neck Cancers: A Comprehensive Systematic and Meta-Analysis. <i>Cells</i> , 2019, 8, 772.	1.8	33
15	Clinical Theragnostic Relationship between Drug-Resistance Specific miRNA Expressions, Chemotherapeutic Resistance, and Sensitivity in Breast Cancer: A Systematic Review and Meta-Analysis. <i>Cells</i> , 2019, 8, 1250.	1.8	33
16	A Comprehensive Review on Corn Starch-Based Nanomaterials: Properties, Simulations, and Applications. <i>Polymers</i> , 2020, 12, 2161.	2.0	33
17	Cytotoxic Effect on Cancerous Cell Lines by Biologically Synthesized Silver Nanoparticles. <i>Brazilian Archives of Biology and Technology</i> , 2016, 59, .	0.5	32
18	Systematic Review and Meta-analysis of the Prognostic Significance of miRNAs in Melanoma Patients. <i>Molecular Diagnosis and Therapy</i> , 2018, 22, 653-669.	1.6	32

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19	Accumulation of phytoene, a colorless carotenoid by inhibition of phytoene desaturase (PDS) gene in <i>Dunaliella salina</i> V-101. <i>Bioresource Technology</i> , 2017, 242, 311-318.	4.8	31
20	Oral administration of lyophilized <i>Dunaliella salina</i> , a carotenoid-rich marine alga, reduces tumor progression in mammary cancer induced rats. <i>Food and Function</i> , 2017, 8, 4517-4527.	2.1	31
21	Green synthesis of gold nanoparticle using <i>Eclipta alba</i> and its antidiabetic activities through regulation of Bcl-2 expression in pancreatic cell line. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 58, 101786.	1.4	30
22	Ultrastructural study of rice tapetum under low-temperature stress. <i>Journal of Plant Biology</i> , 2007, 50, 396-402.	0.9	28
23	Nanomaterials: Classification, Biological Synthesis and Characterization. <i>Sustainable Agriculture Reviews</i> , 2016, , 31-71.	0.6	28
24	Effect of Dissolved Inorganic Carbon on β -Carotene and Fatty Acid Production in <i>Dunaliella</i> sp. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 2895-2906.	1.4	27
25	Astaxanthin from psychrotrophic <i>Sphingomonas faeni</i> exhibits antagonism against food-spoilage bacteria at low temperatures. <i>Microbiological Research</i> , 2015, 179, 38-44.	2.5	27
26	Sodium bicarbonate augmentation enhances lutein biosynthesis in green microalgae <i>Chlorella pyrenoidosa</i> . <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 22, 101406.	1.5	27
27	Hepatoprotective effect of polyphenols rich methanolic extract of <i>Amorphophallus commutatus</i> var. <i>wayanadensis</i> against CCl ₄ induced hepatic injury in swiss albino mice. <i>Food and Chemical Toxicology</i> , 2014, 67, 105-112.	1.8	26
28	Head and neck cancer risk factors in India: protocol for systematic review and meta-analysis. <i>BMJ Open</i> , 2018, 8, e200014.	0.8	25
29	Lutein: A potential antibiofilm and anti-quorum sensing molecule from green microalga <i>Chlorella pyrenoidosa</i> . <i>Microbial Pathogenesis</i> , 2019, 135, 103658.	1.3	25
30	Synthesis and larvicidal activity of low-temperature stable silver nanoparticles from psychrotolerant <i>Pseudomonas mandelii</i> . <i>Environmental Science and Pollution Research</i> , 2015, 22, 5383-5394.	2.7	24
31	miRNA Predictors of Pancreatic Cancer Chemotherapeutic Response: A Systematic Review and Meta-Analysis. <i>Cancers</i> , 2019, 11, 900.	1.7	23
32	Synergistic Action of D-Glucose and Acetosyringone on <i>Agrobacterium</i> Strains for Efficient <i>Dunaliella</i> Transformation. <i>PLoS ONE</i> , 2016, 11, e0158322.	1.1	23
33	Antidiabetic Activity of Gold Nanoparticles Synthesized Using Wedelolactone in RIN-5F Cell Line. <i>Antioxidants</i> , 2020, 9, 8.	2.2	22
34	A feasibility study on optimization of combined advanced oxidation processes for municipal solid waste leachate treatment. <i>Chemical Engineering Research and Design</i> , 2020, 143, 212-221.	2.7	22
35	Optimization and immobilization of amylase obtained from halotolerant bacteria isolated from solar salters. <i>Journal of Genetic Engineering and Biotechnology</i> , 2012, 10, 201-208.	1.5	21
36	Comment on "Systematic Review and Meta-Analysis of Diagnostic Accuracy of miRNAs in Patients with Pancreatic Cancer". <i>Disease Markers</i> , 2018, 2018, 1-2.	0.6	21

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37	Prognostic value of microRNAs in colorectal cancer: a meta-analysis. <i>Cancer Management and Research</i> , 2018, Volume 10, 907-929.	0.9	21
38	Fate of β -Carotene within Loaded Delivery Systems in Food: State of Knowledge. <i>Antioxidants</i> , 2021, 10, 426.	2.2	21
39	Characterization of carbapenem-resistant Gram-negative bacteria from Tamil Nadu. <i>Journal of Chemotherapy</i> , 2016, 28, 371-374.	0.7	20
40	Epidemiologic analysis of breast cancer incidence, prevalence, and mortality in India. <i>Medicine (United States)</i> , 2019, 98(10), e16717.	0.4	19
41	Genetic variability in selected date palm (<i>Phoenix dactylifera</i> L.) cultivars of United Arab Emirates using ISSR and DAMD markers. <i>3 Biotech</i> , 2018, 8, 109.	1.1	17
42	Recombinant engineered phage-derived enzymatic in <i>Pichia pastoris</i> X-33 as whole cell biocatalyst for effective biocontrol of <i>Vibrio parahaemolyticus</i> in aquaculture. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 1576-1585.	3.6	17
43	Homotypic clustering of OsMYB4 binding site motifs in promoters of the rice genome and cellular-level implications on sheath blight disease resistance. <i>Gene</i> , 2015, 561, 209-218.	1.0	16
44	Letter to the editor & "Prognostic value of microRNAs in colorectal cancer: a meta-analysis". <i>Cancer Management and Research</i> , 2018, Volume 10, 3501-3503.	0.9	16
45	Genetic manipulation for carotenoid production in microalgae an overview. <i>Current Research in Biotechnology</i> , 2022, 4, 221-228.	1.9	16
46	Bioactivity Assessment of Indian Origin Mangrove Actinobacteria against <i>Candida albicans</i> . <i>Marine Drugs</i> , 2018, 16, 60.	2.2	15
47	Antidiabetic Activity of <i>Feronia limonia</i> and <i>Artocarpus heterophyllus</i> in Streptozotocin Induced Diabetic Rats. <i>American Journal of Food Technology</i> , 2011, 7, 43-49.	0.2	15
48	Incidence, prevalence, and mortality associated with head and neck cancer in India: Protocol for a systematic review. <i>Indian Journal of Cancer</i> , 2019, 56, 101.	0.2	15
49	Identification and analysis of the salt tolerant property of AHL lactonase (AiiA _{TSAWB}) of <i>Bacillus</i> species. <i>Journal of Basic Microbiology</i> , 2015, 55, 579-590.	1.8	14
50	Exogenous gibberellic acid treatment extends green chili shelf life and maintain quality under modified atmosphere packaging. <i>Scientia Horticulturae</i> , 2020, 269, 108934.	1.7	14
51	Network analysis of transmembrane protein structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 905-916.	1.2	12
52	Current Evidence on miRNAs as Potential Theranostic Markers for Detecting Chemoresistance in Colorectal Cancer: A Systematic Review and Meta-Analysis of Preclinical and Clinical Studies. <i>Molecular Diagnosis and Therapy</i> , 2019, 23, 65-82.	1.6	12
53	Microbial Enzymes: Roles and Applications in Industries. <i>Microorganisms for Sustainability</i> , 2020, , .	0.4	12
54	Ocean Dwelling Actinobacteria as Source of Antitumor Compounds. <i>Brazilian Archives of Biology and Technology</i> , 2016, 59, .	0.5	11

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55	Improving Bioavailability of Vitamin A in Food by Encapsulation: An Update. Environmental Chemistry for A Sustainable World, 2020, , 117-145.	0.3	11
56	Residue centrality in alpha helical polytopic transmembrane protein structures. Journal of Theoretical Biology, 2012, 309, 78-87.	0.8	10
57	Coordination between photorespiration and carbon concentrating mechanism in Chlamydomonas reinhardtii: transcript and protein changes during light-dark diurnal cycles and mixotrophy conditions. Protoplasma, 2019, 256, 117-130.	1.0	10
58	A statistical approach for enhanced production of Î²-galactosidase from Paracoccus sp. and synthesis of galacto-oligosaccharides. Folia Microbiologica, 2020, 65, 811-822.	1.1	10
59	Diagnostic and prognostic role of HE4 expression in multiple carcinomas. Medicine (United States), 2019, 98, e15336.	0.4	9
60	Characterisation of a potential probiotic strain Paracoccus marcusii KGP and its application in whey bioremediation. Folia Microbiologica, 2021, 66, 819-830.	1.1	9
61	Insight on biochemical characteristics of thermotolerant amylase isolated from extremophile bacteria Bacillus vallismortis TD6 (HQ992818). Microbiology, 2015, 84, 210-218.	0.5	8
62	A Clinical Update on the Prognostic Effect of microRNA Biomarkers for Survival Outcome in Nasopharyngeal Carcinoma: A Systematic Review and Meta-Analysis. Cancers, 2021, 13, 4369.	1.7	8
63	Factors affecting the fate of Î²-carotene in the human gastrointestinal tract: A narrative review. International Journal for Vitamin and Nutrition Research, 2020, , 1-21.	0.6	8
64	Novel phenyl and thiophene dispiro indenoquinoxaline pyrrolidine quinolones induced apoptosis via G1/S and G2/M phase cell cycle arrest in MCF-7 cells. New Journal of Chemistry, 2020, 44, 15031-15045.	1.4	7
65	Expression of Carotenoid Pathway Genes in Three Capsicum Varieties under Salt Stress. Asian Journal of Crop Science, 2015, 7, 286-294.	0.2	7
66	Naturally Existing Levels of <i>OsmY</i> Gene Expression in Rice Cultivars Correlate with their Reaction to Fungal and Bacterial Pathogens. Journal of Phytopathology, 2013, 161, 730-734.	0.5	6
67	Combined <i>Zingiber officinale</i> and <i>Terminalia chebula</i> Induces Apoptosis and Modulates mTOR and hTERT Gene Expressions in MCF-7 Cell Line. Nutrition and Cancer, 2021, 73, 1207-1216.	0.9	6
68	New alkali tolerant Î²-galactosidase from Paracoccus marcusii KGP – A promising biocatalyst for the synthesis of oligosaccharides derived from lactulose (OsLu), the new generation prebiotics. Bioorganic Chemistry, 2021, 115, 105207.	2.0	6
69	ENHANCED AMYLOLYTIC ACTIVITY OF INTRACELLULAR alpha-AMYLASE PRODUCED BY BACILLUS TEQUILENSIS. Journal of Microbiology, Biotechnology and Food Sciences, 2017, 6, 1314-1318.	0.4	6
70	Draft Genome Sequence of a Highly Pigmented Bacterium Paracoccus marcusii KGP Capable of Producing Galacto-oligosaccharides Synthesising Enzyme. Current Microbiology, 2021, 78, 634-641.	1.0	5
71	Analysis of Stress Responsive Genes in Capsicum for Salinity Responses. Annual Research & Review in Biology, 2015, 6, 66-78.	0.4	5
72	Chemical Profiling and Evaluation of Antioxidant and Anticancer Potential of Tuber Crop Amorphophallus commutatus var. wayanadensis. Plant Foods for Human Nutrition, 2022, 77, 68-76.	1.4	5

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73	Role of microalgal metabolites in controlling quorum-sensing-regulated biofilm. Archives of Microbiology, 2022, 204, 163.	1.0	5
74	Investigation of anti-inflammatory and toxicity effects of mangrove-derived Streptomyces rochei strain VITGAP173. Journal of Cellular Biochemistry, 2019, 120, 17080-17097.	1.2	4
75	Prognostic significance of Lymph Node Ratio (LNR): Clinical insights and strategies for routine clinical practice. Oral Oncology, 2019, 91, 125-127.	0.8	4
76	Validation of miRNA prognostic significance in stage II colorectal cancer. Medicine (United States), 2019, 98, e14570.	0.4	4
77	RNAi silenced β -carotene desaturase developed variegated tomato transformants with increased phytoene content. Plant Growth Regulation, 2021, 93, 189-201.	1.8	4
78	Metagenomic Analysis of the Faecal Microbiome of Rats with 1, 2-Dimethylhydrazine Induced Colon Cancer and Prophylactic Whole-Cell Carotenoid Intervention. Indian Journal of Microbiology, 2021, 61, 38-44.	1.5	4
79	Preventive Effect of Combined <i>Zingiber officinale</i> and <i>Terminalia chebula</i> against DMBA-Induced Breast Cancer Rats via mTOR Inhibition. Nutrition and Cancer, 2022, 74, 687-696.	0.9	4
80	Ectopic expression of bacterial 1-aminocyclopropane 1-carboxylate deaminase in Chlamydomonas reinhardtii enhances algal biomass and lipid content under nitrogen deficit condition. Bioresource Technology, 2021, 341, 125830.	4.8	4
81	Alternative Ecology of Human Pathogenic Bacteria in Fruits and Vegetables. Plant Pathology Journal, 2014, 13, 1-7.	0.7	4
82	COVID-19 Outcomes in Patients Hospitalised with Acute Myocardial Infarction (AMI): A Protocol for Systematic Review and Meta-Analysis. Covid, 2022, 2, 138-147.	0.7	4
83	A Clinical Investigation on the Theragnostic Effect of MicroRNA Biomarkers for Survival Outcome in Cervical Cancer: A PRISMA-P Compliant Protocol for Systematic Review and Comprehensive Meta-Analysis. Genes, 2022, 13, 463.	1.0	4
84	Prognostic miRNA classifiers in t cell acute lymphoblastic leukemia. Medicine (United States), 2019, 98, e14569.	0.4	3
85	Colistin-Resistant Klebsiella pneumoniae: Prevalence of Integrons and Synergistic Out Turn for Colistin-Meropenem. Archives of Clinical Infectious Diseases, 2018, 13, .	0.1	3
86	Mapping Research on miRNAs in Cancer: A Global Data Analysis and Bibliometric Profiling Analysis. Pathophysiology, 2022, 29, 66-80.	1.0	3
87	Apoptosis inducing metabolite from marine mangrove actinobacteria VITGAP173. Anti-Cancer Agents in Medicinal Chemistry, 2022, 22, .	0.9	3
88	Dominance Relationship between Two Self-Incompatible Brassica campestris Haplotypes in Response to CO2 Gas. Journal of Plant Biology, 2007, 50, 161-166.	0.9	2
89	Genome Sequence of Bacillus vallismortis TD3, a Salt-Tolerant Strain Isolated from the Sediments of a Solar Saltern in Tamil Nadu, India. Microbiology Resource Announcements, 2018, 7, .	0.3	2
90	Clinical comments on prognostic and clinicopathological significance of PD-L1 overexpression in oral squamous cell carcinoma (OSCC). Oral Oncology, 2020, 111, 104886.	0.8	2

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91	Comparative data analysis of two multi-drug resistant homoserine lactone and rhamnolipid producing <i>Pseudomonas aeruginosa</i> from diabetic foot infected patient. <i>Data in Brief</i> , 2020, 32, 106071.	0.5	2
92	Clinical interpretation of findings from a systematic review and a comprehensive meta-analysis on clinicopathological and prognostic characteristics of oral squamous cell carcinomas (OSCC) arising in patients with oral lichen planus (OLP). <i>Oral Oncology</i> , 2020, 108, 104974.	0.8	2
93	Anti-inflammatory and analgesic potential of <i>Amorphophallus commutatus</i> var. <i>wayanadensis</i> and its inhibitory effect on inflammatory mediators in lipopolysaccharide-stimulated macrophages. <i>Pharmacognosy Magazine</i> , 2021, 17, 205.	0.3	2
94	Genome Sequence of a Moderately Halophilic <i>Bacillus cereus</i> Strain, TS2, Isolated from Saltern Sediments. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.3	1
95	The role of mTOR and oral intervention of combined <i>Zingiber officinale</i> & <i>Terminalia chebula</i> extract in type 2 diabetes rat models. <i>Journal of Food Biochemistry</i> , 2020, 44, e13250.	1.2	1
96	In vitro Gastro-intestinal digestion of combined <i>Zingiber officinale</i> and <i>Terminalia chebula</i> associated with Antioxidant capacity and α -Glucosidase Inhibition. <i>Research Journal of Pharmacy and Technology</i> , 2021, 14, 37-41.	0.2	1
97	Amelioration of doxorubicin-induced cardiotoxicity by oral lyophilized <i>Dunaliella salina</i> supplement in a female wistar rat model with active estrous cycle and surgical menopause. <i>Pharmacognosy Magazine</i> , 2020, 16, 284.	0.3	1
98	Chemical Composition, in-vitro Antioxidant, Antibacterial, and Anti-algal Activity of <i>Lakshadweep Feather Star</i> Spp. <i>Comaster Schlegelii</i> and <i>Himerometra Robustipinna</i> . <i>Thalassas</i> , 0, , 1.	0.1	1
99	Nano-antibiotics: A Therapeutic Future. <i>Nanoscience and Nanotechnology - Asia</i> , 2017, 7, 3-25.	0.3	1
100	Bibliometric and Density Visualisation Mapping Analysis of Domestic Violence in Australia Research Output 1984–2019. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4837.	1.2	1
101	Progressive Application of Marine Biomaterials in Targeted Cancer Nanotherapeutics. <i>Current Pharmaceutical Design</i> , 2022, 28, 3337-3350.	0.9	1
102	International Conference on Current Trends in Biotechnology & post ICCB-2016 conference on Strategies for Environmental Protection and Management (ICSEPM-2016). <i>Bioresource Technology</i> , 2017, 242, 1.	4.8	0
103	Letter to the Editor regarding, “MIR196A2 rs11614913 contributes to susceptibility to colorectal cancer in Iranian population: A multi-center case-control study and meta-analysis”. <i>Gene</i> , 2019, 696, 234.	1.0	0
104	Environmental Biotechnology Vol. 1. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , .	0.3	0
105	Environmental Biotechnology Vol. 3. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , .	0.3	0
106	Comment on “Supplemental breast cancer-screening ultrasonography in women with dense breasts: a systematic review and meta-analysis”. <i>British Journal of Cancer</i> , 2021, 124, 1891-1892.	2.9	0
107	Lyophilized Fruit Juice of <i>Citrus sinensis</i> Triggers Mitochondria-mediated Apoptosis via Downregulation of PI3K/AKT in MCF-7 Cell Line. <i>Indian Journal of Pharmaceutical Education and Research</i> , 2021, 55, 556-565.	0.3	0
108	<i>Staphylococcus aureus</i> and Virulence-Related Small RNA. <i>Infectious Diseases</i> , 0, , .	4.0	0

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109	Clinical comments on “Mental disorder prevalence among populations impacted by coronavirus pandemics: A multilevel meta-analytic study of COVID-19, MERS & SARS” General Hospital Psychiatry, 2021, 72, 141.	1.2	0
110	Phytochemical evaluation of <i>Amorphophallus smithsonianus</i> Sivad.: A rare endemic species from Western Ghats, Kerala, India. <i>Annals of Phytomedicine an International Journal</i> , 2020, 9, .	0.0	0
111	Nanopore-Based Long-Read Sequencing Technology to Obtain Highly Contiguous Whole-Genome Sequence of Actinobacterial Genomes like <i>Streptomyces</i> Sp.: A Complete Guide for Actinobacterial Whole Genome Sequencing Project Using Nanopore. <i>Springer Protocols</i> , 2022, , 207-220.	0.1	0