

# Gothandam Kodiveri Muthukaliannan

## List of Publications by Citations

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102  
papers

1,178  
citations

19  
h-index

29  
g-index

116  
ext. papers

1,545  
ext. citations

3.4  
avg, IF

5.06  
L-index

#	Paper	IF	Citations
102	OsPPR1, a pentatricopeptide repeat protein of rice is essential for the chloroplast biogenesis. <i>Plant Molecular Biology</i> , <b>2005</b> , 58, 421-33	4.6	86
101	OsPRP3, 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> , <b>2010</b> , 72, 125-35	4.6	54
100	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> , <b>2019</b> , 98, e14834	1.8	50
99	BcXTH1, a Brassica campestris homologue of Arabidopsis XTH9, is associated with cell expansion. <i>Planta</i> , <b>2006</b> , 224, 32-41	4.7	45
98	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> , <b>2018</b> , 8, 6972	4.9	42
97	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> , <b>2013</b> , 11, 47-52	3.1	38
96	Phloretin loaded chitosan nanoparticles augments the pH-dependent mitochondrial-mediated intrinsic apoptosis in human oral cancer cells. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 130, 997-1008	7.9	35
95	Immunomodulatory activity of methanolic extract of <i>Amorphophallus commutatus</i> var. wayanadensis under normal and cyclophosphamide induced immunosuppressive conditions in mice models. <i>Food and Chemical Toxicology</i> , <b>2015</b> , 81, 151-159	4.7	32
94	Systematic functional analysis and application of a cold-active serine protease from a novel <i>Chryseobacterium</i> sp. <i>Food Chemistry</i> , <b>2017</b> , 217, 18-27	8.5	28
93	A review on edible vaccines and their prospects. <i>Brazilian Journal of Medical and Biological Research</i> , <b>2020</b> , 53, e8749	2.8	26
92	Prognostic Value of miRNAs in Head and Neck Cancers: A Comprehensive Systematic and Meta-Analysis. <i>Cells</i> , <b>2019</b> , 8,	7.9	25
91	Ultrastructural study of rice tapetum under low-temperature stress <b>2007</b> , 50, 396-402		25
90	Systematic Review and Meta-analysis of the Prognostic Significance of miRNAs in Melanoma Patients. <i>Molecular Diagnosis and Therapy</i> , <b>2018</b> , 22, 653-669	4.5	25
89	Cytotoxic Effect on Cancerous Cell Lines by Biologically Synthesized Silver Nanoparticles. <i>Brazilian Archives of Biology and Technology</i> , <b>2016</b> , 59,	1.8	24
88	Prospects and progress in the production of valuable carotenoids: Insights from metabolic engineering, synthetic biology, and computational approaches. <i>Journal of Biotechnology</i> , <b>2018</b> , 266, 89-101	3.7	23
87	Hepatoprotective effect of polyphenols rich methanolic extract of <i>Amorphophallus commutatus</i> var. wayanadensis against CCL4 induced hepatic injury in swiss albino mice. <i>Food and Chemical Toxicology</i> , <b>2014</b> , 67, 105-12	4.7	23
86	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> , <b>2017</b> , 8, 4517-4527	6.1	22

85	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> , <b>2019</b> , 8,	7.9	22
84	Effect of dissolved inorganic carbon on $\beta$ -carotene and fatty acid production in <i>Dunaliella</i> sp. <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 175, 2895-906	3.2	20
83	Accumulation of phytoene, a colorless carotenoid by inhibition of phytoene desaturase (PDS) gene in <i>Dunaliella salina</i> V-101. <i>Bioresource Technology</i> , <b>2017</b> , 242, 311-318	11	19
82	Astaxanthin from psychrotrophic <i>Sphingomonas faeni</i> exhibits antagonism against food-spoilage bacteria at low temperatures. <i>Microbiological Research</i> , <b>2015</b> , 179, 38-44	5.3	19
81	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> , <b>2020</b> , 58, 101786	4.5	19
80	Comment on "Systematic Review and Meta-Analysis of Diagnostic Accuracy of miRNAs in Patients with Pancreatic Cancer". <i>Disease Markers</i> , <b>2018</b> , 2018, 6904569	3.2	19
79	Synthesis and larvicidal activity of low-temperature stable silver nanoparticles from psychrotolerant <i>Pseudomonas mandelii</i> . <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 5383-94	5.1	18
78	Effect of drying methods (microwave vacuum, freeze, hot air and sun drying) on physical, chemical and nutritional attributes of five pepper ( <i>Capsicum annum</i> var. <i>annuum</i> ) cultivars. <i>Journal of the Science of Food and Agriculture</i> , <b>2018</b> , 98, 3492-3500	4.3	18
77	Prognostic value of microRNAs in colorectal cancer: a meta-analysis. <i>Cancer Management and Research</i> , <b>2018</b> , 10, 907-929	3.6	17
76	Synergistic Action of D-Glucose and Acetosyringone on <i>Agrobacterium</i> Strains for Efficient <i>Dunaliella</i> Transformation. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158322	3.7	17
75	Nanomaterials: Classification, Biological Synthesis and Characterization. <i>Sustainable Agriculture Reviews</i> , <b>2016</b> , 31-71	1.3	16
74	Characterization of carbapenem-resistant Gram-negative bacteria from Tamil Nadu. <i>Journal of Chemotherapy</i> , <b>2016</b> , 28, 371-4	2.3	15
73	Head and neck cancer risk factors in India: protocol for systematic review and meta-analysis. <i>BMJ Open</i> , <b>2018</b> , 8, e020014	3	15
72	Letter to the editor "Prognostic value of microRNAs in colorectal cancer: a meta-analysis". <i>Cancer Management and Research</i> , <b>2018</b> , 10, 3501-3503	3.6	15
71	Lutein: A potential antibiofilm and anti-quorum sensing molecule from green microalga <i>Chlorella pyrenoidosa</i> . <i>Microbial Pathogenesis</i> , <b>2019</b> , 135, 103658	3.8	14
70	miRNA Predictors of Pancreatic Cancer Chemotherapeutic Response: A Systematic Review and Meta-Analysis. <i>Cancers</i> , <b>2019</b> , 11,	6.6	14
69	Epidemiologic analysis of breast cancer incidence, prevalence, and mortality in India: Protocol for a systematic review and meta-analyses. <i>Medicine (United States)</i> , <b>2018</b> , 97, e13680	1.8	14
68	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> , <b>2015</b> , 561, 209-18	3.8	13

67	Optimization and immobilization of amylase obtained from halotolerant bacteria isolated from solar salterns. <i>Journal of Genetic Engineering and Biotechnology</i> , <b>2012</b> , 10, 201-208	3.1	11
66	Antidiabetic Activity of Feronia limonia and Artocarpus heterophyllus in Streptozotocin Induced Diabetic Rats. <i>American Journal of Food Technology</i> , <b>2011</b> , 7, 43-49	0.1	11
65	A Comprehensive Review on Corn Starch-Based Nanomaterials: Properties, Simulations, and Applications. <i>Polymers</i> , <b>2020</b> , 12,	4.5	11
64	Incidence, prevalence, and mortality associated with head and neck cancer in India: Protocol for a systematic review. <i>Indian Journal of Cancer</i> , <b>2019</b> , 56, 101-106	0.9	10
63	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> , <b>2020</b> , 154, 1576-1585	7.9	10
62	Ocean Dwelling Actinobacteria as Source of Antitumor Compounds. <i>Brazilian Archives of Biology and Technology</i> , <b>2016</b> , 59,	1.8	10
61	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> , <b>2021</b> , 13,	6.6	10
60	A feasibility study on optimization of combined advanced oxidation processes for municipal solid waste leachate treatment. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 143, 212-221	5.5	9
59	Residue centrality in alpha helical polytopic transmembrane protein structures. <i>Journal of Theoretical Biology</i> , <b>2012</b> , 309, 78-87	2.3	9
58	Network analysis of transmembrane protein structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2012</b> , 391, 905-916	3.3	9
57	Antidiabetic Activity of Gold Nanoparticles Synthesized Using Wedelolactone in RIN-5F Cell Line. <i>Antioxidants</i> , <b>2019</b> , 9,	7.1	9
56	Sodium bicarbonate augmentation enhances lutein biosynthesis in green microalgae <i>Chlorella pyrenoidosa</i> . <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2019</b> , 22, 101406	4.2	9
55	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> , <b>2019</b> , 23, 65-82	4.5	8
54	Genetic variability in selected date palm (L.) cultivars of United Arab Emirates using ISSR and DAMD markers. <i>3 Biotech</i> , <b>2018</b> , 8, 109	2.8	8
53	Identification and analysis of the salt tolerant property of AHL lactonase (AiiATSAWB) of <i>Bacillus</i> species. <i>Journal of Basic Microbiology</i> , <b>2015</b> , 55, 579-90	2.7	8
52	Insight on biochemical characteristics of thermotolerant amylase isolated from extremophile bacteria <i>Bacillus vallismortis</i> TD6 (HQ992818). <i>Microbiology</i> , <b>2015</b> , 84, 210-218	1.4	7
51	Bioactivity Assessment of Indian Origin-Mangrove Actinobacteria against <i>Candida albicans</i> . <i>Marine Drugs</i> , <b>2018</b> , 16,	6	7
50	Improving Bioavailability of Vitamin A in Food by Encapsulation: An Update. <i>Environmental Chemistry for A Sustainable World</i> , <b>2020</b> , 117-145	0.8	7

49	Diagnostic and prognostic role of HE4 expression in multiple carcinomas: A protocol for systematic review and meta-analysis. <i>Medicine (United States)</i> , <b>2019</b> , 98, e15336	1.8	7
48	Coordination between photorespiration and carbon concentrating mechanism in <i>Chlamydomonas reinhardtii</i> : transcript and protein changes during light-dark diurnal cycles and mixotrophy conditions. <i>Protoplasma</i> , <b>2019</b> , 256, 117-130	3.4	6
47	A statistical approach for enhanced production of $\beta$ -galactosidase from <i>Paracoccus</i> sp. and synthesis of galacto-oligosaccharides. <i>Folia Microbiologica</i> , <b>2020</b> , 65, 811-822	2.8	6
46	Naturally Existing Levels of Osmyb4 Gene Expression in Rice Cultivars Correlate with their Reaction to Fungal and Bacterial Pathogens. <i>Journal of Phytopathology</i> , <b>2013</b> , 161, 730-734	1.8	5
45	Expression of Carotenoid Pathway Genes in Three Capsicum Varieties under Salt Stress. <i>Asian Journal of Crop Science</i> , <b>2015</b> , 7, 286-294	0.3	5
44	Analysis of Stress Responsive Genes in Capsicum for Salinity Responses. <i>Annual Research &amp; Review in Biology</i> , <b>2015</b> , 6, 66-78	0.8	5
43	Exogenous gibberellic acid treatment extends green chili shelf life and maintain quality under modified atmosphere packaging. <i>Scientia Horticulturae</i> , <b>2020</b> , 269, 108934	4.1	5
42	Rice: Improving Cold Stress Tolerance <b>2012</b> , 733-750		4
41	Factors affecting the fate of $\beta$ -carotene in the human gastrointestinal tract: A narrative review. <i>International Journal for Vitamin and Nutrition Research</i> , <b>2020</b> , 1-21	1.7	4
40	Novel phenyl and thiophene dispiro indenoquinoxaline pyrrolidine quinolones induced apoptosis via G1/S and G2/M phase cell cycle arrest in MCF-7 cells. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 15031-15045	3.6	4
39	Fate of $\beta$ -Carotene within Loaded Delivery Systems in Food: State of Knowledge. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	4
38	Prognostic significance of Lymph Node Ratio (LNR): Clinical insights and strategies for routine clinical practice. <i>Oral Oncology</i> , <b>2019</b> , 91, 125-127	4.4	4
37	Combined and Induces Apoptosis and Modulates mTOR and hTERT Gene Expressions in MCF-7 Cell Line. <i>Nutrition and Cancer</i> , <b>2021</b> , 73, 1207-1216	2.8	4
36	A Clinical Update on the Prognostic Effect of microRNA Biomarkers for Survival Outcome in Nasopharyngeal Carcinoma: A Systematic Review and Meta-Analysis. <i>Cancers</i> , <b>2021</b> , 13,	6.6	4
35	Microbial Enzymes: Roles and Applications in Industries. <i>Microorganisms for Sustainability</i> , <b>2020</b> ,	1.1	3
34	ENHANCED AMYLOLYTIC ACTIVITY OF INTRACELLULAR $\alpha$ -AMYLASE PRODUCED BY BACILLUS TEQUILENSIS. <i>Journal of Microbiology, Biotechnology and Food Sciences</i> , <b>2017</b> , 6, 1314-1318	2.3	3
33	Alternative Ecology of Human Pathogenic Bacteria in Fruits and Vegetables. <i>Plant Pathology Journal</i> , <b>2014</b> , 13, 1-7	0.6	3
32	Prognostic miRNA classifiers in t cell acute lymphoblastic leukemia: Study protocol for a systematic review and meta-analysis of observational clinical studies. <i>Medicine (United States)</i> , <b>2019</b> , 98, e14569	1.8	3

31	Validation of miRNA prognostic significance in stage II colorectal cancer: A protocol for systematic review and meta-analysis of observational clinical studies. <i>Medicine (United States)</i> , <b>2019</b> , 98, e14570	1.8	3
30	Draft Genome Sequence of a Highly Pigmented Bacterium <i>Paracoccus marcusii</i> KGP Capable of Producing Galacto-oligosaccharides Synthesising Enzyme. <i>Current Microbiology</i> , <b>2021</b> , 78, 634-641	2.4	3
29	Dominance Relationship between Two Self-Incompatible <i>Brassica campestris</i> Haplotypes in Response to CO <sub>2</sub> Gas <b>2007</b> , 50, 161-166		2
28	Comparative data analysis of two multi-drug resistant homoserine lactone and rhamnolipid producing from diabetic foot infected patient. <i>Data in Brief</i> , <b>2020</b> , 32, 106071	1.2	2
27	Preventive Effect of Combined and against DMBA-Induced Breast Cancer Rats mTOR Inhibition. <i>Nutrition and Cancer</i> , <b>2021</b> , 1-10	2.8	2
26	Characterisation of a potential probiotic strain <i>Paracoccus marcusii</i> KGP and its application in whey bioremediation. <i>Folia Microbiologica</i> , <b>2021</b> , 66, 819-830	2.8	2
25	Metagenomic Analysis of the Faecal Microbiome of Rats with 1, 2-Dimethylhydrazine Induced Colon Cancer and Prophylactic Whole-Cell Carotenoid Intervention. <i>Indian Journal of Microbiology</i> , <b>2021</b> , 61, 38-44	3.7	2
24	Investigation of anti-inflammatory and toxicity effects of mangrove-derived <i>Streptomyces rochei</i> strain VITGAP173. <i>Journal of Cellular Biochemistry</i> , <b>2019</b> , 120, 17080-17097	4.7	1
23	Genome Sequence of <i>Bacillus vallismortis</i> TD3, a Salt-Tolerant Strain Isolated from the Sediments of a Solar Saltern in Tamil Nadu, India. <i>Microbiology Resource Announcements</i> , <b>2018</b> , 7,	1.3	1
22	COVID-19 Outcomes in Patients Hospitalised with Acute Myocardial Infarction (AMI): A Protocol for Systematic Review and Meta-Analysis. <i>Covid</i> , <b>2022</b> , 2, 138-147		1
21	Role of microalgal metabolites in controlling quorum-sensing-regulated biofilm.. <i>Archives of Microbiology</i> , <b>2022</b> , 204, 163	3	1
20	Chemical Profiling and Evaluation of Antioxidant and Anticancer Potential of Tuber Crop <i>Amorphophallus commutatus</i> var. <i>wayanadensis</i> .. <i>Plant Foods for Human Nutrition</i> , <b>2022</b> , 1	3.9	1
19	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> , <b>2020</b> , 16, 284	0.8	1
18	Colistin-Resistant <i>Klebsiella pneumoniae</i> : Prevalence of Integrons and Synergistic Out Turn for Colistin-Meropenem. <i>Archives of Clinical Infectious Diseases</i> , <b>2018</b> , 13,	3.1	1
17	Clinical comments on prognostic and clinicopathological significance of PD-L1 overexpression in oral squamous cell carcinoma (OSCC). <i>Oral Oncology</i> , <b>2020</b> , 111, 104886	4.4	1
16	Nanoscience in Food and Agriculture 3. <i>Sustainable Agriculture Reviews</i> , <b>2016</b> ,	1.3	1
15	Genome Sequence of a Moderately Halophilic <i>Bacillus cereus</i> Strain, TS2, Isolated from Saltern Sediments. <i>Microbiology Resource Announcements</i> , <b>2018</b> , 7,	1.3	1
14	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> , <b>2021</b> , 17, 205	0.8	1

13	The role of mTOR and oral intervention of combined Zingiber officinale-Terminalia chebula extract in type 2 diabetes rat models. <i>Journal of Food Biochemistry</i> , <b>2020</b> , 44, e13250	3.3	o
12	Chemical Composition, in-vitro Antioxidant, Antibacterial, and Anti-algal Activity of Lakshadweep Feather Star Spp. Comaster Schlegelii and Himerometra Robustipinna. <i>Thalassas</i> ,1	0.9	o
11	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> , <b>2020</b> , 108, 104974	4.4	o
10	RNAi silenced $\beta$ -carotene desaturase developed variegated tomato transformants with increased phytoene content. <i>Plant Growth Regulation</i> , <b>2021</b> , 93, 189-201	3.2	o
9	New alkali tolerant $\beta$ -galactosidase from Paracoccus marcusii KGP - A promising biocatalyst for the synthesis of oligosaccharides derived from lactulose (OsLu), the new generation prebiotics. <i>Bioorganic Chemistry</i> , <b>2021</b> , 115, 105207	5.1	o
8	Ectopic expression of bacterial 1-aminocyclopropane 1-carboxylate deaminase in Chlamydomonas reinhardtii enhances algal biomass and lipid content under nitrogen deficit condition. <i>Bioresource Technology</i> , <b>2021</b> , 341, 125830	11	o
7	Genetic manipulation for carotenoid production in microalgae an overview. <i>Current Research in Biotechnology</i> , <b>2022</b> , 4, 221-228	4.8	o
6	Nanopore-Based Long-Read Sequencing Technology to Obtain Highly Contiguous Whole-Genome Sequence of Actinobacterial Genomes like Streptomyces Sp.: A Complete Guide for Actinobacterial Whole Genome Sequencing Project Using Nanopore. <i>Springer Protocols</i> , <b>2022</b> , 207-220	0.3	
5	Structure and Source of Marine Natural Products <b>2020</b> , 1659-1687		
4	Comment on "Supplemental breast cancer-screening ultrasonography in women with dense breasts: a systematic review and meta-analysis". <i>British Journal of Cancer</i> , <b>2021</b> , 124, 1891-1892	8.7	
3	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> , <b>2019</b> , 696, 234	3.8	
2	Clinical comments on "Mental disorder prevalence among populations impacted by coronavirus pandemics: A multilevel meta-analytic study of COVID-19, MERS & SARS". <i>General Hospital Psychiatry</i> , <b>2021</b> , 72, 141	5.6	
1	Mapping Research on miRNAs in Cancer: A Global Data Analysis and Bibliometric Profiling Analysis.. <i>Pathophysiology</i> , <b>2022</b> , 29, 66-80	1.8	