

Sarada Ravi

List of Publications by Year in descending order

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69
papers

5,268
citations

126907

33
h-index

98798

67
g-index

70
all docs

70
docs citations

70
times ranked

5671
citing authors

#	ARTICLE	IF	CITATIONS
1	Phytohormone supplementation mediated enhanced biomass production, lipid accumulation, and modulation of fatty acid profile in <i>Porphyridium purpureum</i> and <i>Dunaliella salina</i> cultures. <i>Biocatalysis and Agricultural Biotechnology</i> , 2022, 39, 102253.	3.1	11
2	Volatile organic compounds involved in the communication of microalgae-bacterial association extracted through Headspace-Solid phase microextraction and confirmed using gas chromatography-mass spectrophotometry. <i>Bioresource Technology</i> , 2022, 348, 126775.	9.6	11
3	Improvement in vitamin B12 status of Wistar rats by supplementing the diet with <i>Chlorella vulgaris</i> biomass. <i>Journal of Food Science and Technology</i> , 2021, 58, 4270-4281.	2.8	3
4	Metabolic engineering of astaxanthin pathway and heterologous production in novel organisms. , 2021, , 151-179.		1
5	Evaluation of drying methods on nutritional constituents and antioxidant activities of <i>Chlorella vulgaris</i> cultivated in an outdoor open raceway pond. <i>Journal of Applied Phycology</i> , 2021, 33, 1419-1434.	2.8	13
6	Unravelling of <i>Chlorella</i> associated bacterial load, diversity, and their imputed functions at high and low yield conditions through metagenome sequencing. <i>Journal of Phycology</i> , 2021, , .	2.3	0
7	Gastro-protective potentials of <i>Spirulina</i> : role of vitamin B12. <i>Journal of Food Science and Technology</i> , 2020, 57, 745-753.	2.8	8
8	<i>Chlorella vulgaris</i> cultivation in airlift photobioreactor with transparent draft tube: effect of hydrodynamics, light and carbon dioxide on biochemical profile particularly 1% ^{w/w} -6/1% ^{w/w} -3 fatty acid ratio. <i>Journal of Food Science and Technology</i> , 2020, 57, 866-876.	2.8	15
9	Stress induced modifications in photosystem II electron transport, oxidative status, and expression pattern of acc D and rbc L genes in an oleaginous microalga <i>Desmodesmus</i> sp.. <i>Bioresource Technology</i> , 2020, 318, 124039.	9.6	4
10	Strategies for enhancement of alpha-linolenic acid rich lipids in <i>Desmodesmus</i> sp. without compromising the biomass production. <i>Bioresource Technology</i> , 2019, 294, 122215.	9.6	8
11	Development of a carotenoid enriched probiotic yogurt from fresh biomass of <i>Spirulina</i> and its characterization. <i>Journal of Food Science and Technology</i> , 2019, 56, 3721-3731.	2.8	32
12	Enhanced accumulation of alpha-linolenic acid rich lipids in indigenous freshwater microalga <i>Desmodesmus</i> sp.: The effect of low-temperature on nutrient replete, UV treated and nutrient stressed cultures. <i>Bioresource Technology</i> , 2019, 273, 404-415.	9.6	19
13	Atheroprotective effect of novel peptides from <i>Porphyridium purpureum</i> in RAW 264.7 macrophage cell line and its molecular docking study. <i>Biotechnology Letters</i> , 2019, 41, 91-106.	2.2	10
14	Industrial potential of carotenoid pigments from microalgae: Current trends and future prospects. <i>Critical Reviews in Food Science and Nutrition</i> , 2019, 59, 1880-1902.	10.3	208
15	<i>Botryococcus</i> as an alternative source of carotenoids and its possible applications – an overview. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 541-558.	9.0	25
16	Comparative life cycle assessment of microalgae-mediated CO ₂ capture in open raceway pond and airlift photobioreactor system. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 2357-2364.	4.1	24
17	Growth and biochemical characteristics of an indigenous freshwater microalga, <i>Scenedesmus obtusus</i> , cultivated in an airlift photobioreactor: effect of reactor hydrodynamics, light intensity, and photoperiod. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1057-1068.	3.4	16
18	Life cycle assessment of microalgae based biodiesel production to evaluate the impact of biomass productivity and energy source. <i>Resources, Conservation and Recycling</i> , 2017, 122, 286-294.	10.8	59

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19	Heterologous expression of β -carotene hydroxylase in <i>Dunaliella salina</i> by <i>Agrobacterium</i> -mediated genetic transformation. <i>Algal Research</i> , 2016, 18, 257-265.	4.6	39
20	Removal of nutrients and organic pollution load from pulp and paper mill effluent by microalgae in outdoor open pond. <i>Bioresource Technology</i> , 2016, 214, 856-860.	9.6	56
21	Evaluation of indigenous fresh water microalga <i>Scenedesmus obtusus</i> for feed and fuel applications: Effect of carbon dioxide, light and nutrient sources on growth and biochemical characteristics. <i>Bioresource Technology</i> , 2016, 207, 430-439.	9.6	62
22	Metabolic engineering of <i>Dunaliella salina</i> for production of ketocarotenoids. <i>Photosynthesis Research</i> , 2016, 127, 321-333.	2.9	55
23	Acute and subchronic safety assessment of <i>Porphyridium purpureum</i> biomass in the rat model. <i>Journal of Applied Phycology</i> , 2016, 28, 1071-1083.	2.8	18
24	Antihyperglycemic, Antioxidant and Antimicrobial Activities of the Butanol Extract from <i>Spirulina Platensis</i> . <i>Journal of Food Biochemistry</i> , 2015, 39, 594-602.	2.9	20
25	The effect of carbon dioxide rich environment on carbonic anhydrase activity, growth and metabolite production in indigenous freshwater microalgae. <i>Algal Research</i> , 2015, 9, 151-159.	4.6	58
26	Regulation of astaxanthin and its intermediates through cloning and genetic transformation of β -carotene ketolase in <i>Haematococcus pluvialis</i> . <i>Journal of Biotechnology</i> , 2015, 196-197, 33-41.	3.8	59
27	Evaluation of hepatoprotective and antioxidant activity of astaxanthin and astaxanthin esters from microalga- <i>Haematococcus pluvialis</i> . <i>Journal of Food Science and Technology</i> , 2015, 52, 6703-6710.	2.8	45
28	Characterisation of defatted <i>Scenedesmus dimorphus</i> algal biomass as animal feed. <i>Journal of Applied Phycology</i> , 2015, 27, 1871-1879.	2.8	17
29	Defatted algal biomass as a non-conventional low-cost adsorbent: Surface characterization and methylene blue adsorption characteristics. <i>Bioresource Technology</i> , 2015, 184, 395-404.	9.6	68
30	Astaxanthin: Sources, Extraction, Stability, Biological Activities and Its Commercial Applications – A Review. <i>Marine Drugs</i> , 2014, 12, 128-152.	4.6	1,323
31	Statistical optimization of thermal pretreatment conditions for enhanced biomethane production from defatted algal biomass. <i>Bioresource Technology</i> , 2014, 162, 157-165.	9.6	28
32	Effect of metabolic inhibitors on growth and carotenoid production in <i>Dunaliella bardawil</i> . <i>Journal of Food Science and Technology</i> , 2013, 50, 1130-1136.	2.8	23
33	Selection and evaluation of CO ₂ tolerant indigenous microalga <i>Scenedesmus dimorphus</i> for unsaturated fatty acid rich lipid production under different culture conditions. <i>Bioresource Technology</i> , 2013, 144, 28-37.	9.6	77
34	In vivo bioavailability and antioxidant activity of carotenoids from microalgal biomass – A repeated dose study. <i>Food Research International</i> , 2013, 54, 711-717.	6.2	95
35	Algal biofuel production and mitigation potential in India. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2013, 18, 113-136.	2.1	32
36	Cultivation of green alga <i>Botryococcus braunii</i> in raceway, circular ponds under outdoor conditions and its growth, hydrocarbon production. <i>Bioresource Technology</i> , 2012, 123, 528-533.	9.6	65

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37	Establishment of <i>Agrobacterium tumefaciens</i> -mediated genetic transformation in <i>Dunaliella bardawil</i> . <i>European Journal of Phycology</i> , 2011, 46, 36-44.	2.0	73
38	Effect of salicylic acid and methyl jasmonate on antioxidant systems of <i>Haematococcus pluvialis</i> . <i>Acta Physiologiae Plantarum</i> , 2011, 33, 1043-1049.	2.1	67
39	Characterization of Microalgal Carotenoids by Mass Spectrometry and Their Bioavailability and Antioxidant Properties Elucidated in Rat Model. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 8553-8559.	5.2	156
40	<i>AGROBACTERIUM</i> -MEDIATED TRANSFORMATION IN THE GREEN ALGA <i>HAEMATOCOCCUS PLUVIALIS</i> (CHLOROPHYCEAE, VOLVOCALES). <i>Journal of Phycology</i> , 2009, 45, 642-649.	2.3	115
41	Enhancement of carotenoids by mutation and stress induced carotenogenic genes in <i>Haematococcus pluvialis</i> mutants. <i>Bioresource Technology</i> , 2008, 99, 8667-8673.	9.6	92
42	Regulation of carotenoid biosynthetic genes expression and carotenoid accumulation in the green alga <i>Haematococcus pluvialis</i> under nutrient stress conditions. <i>Journal of Experimental Botany</i> , 2008, 59, 1409-1418.	4.8	137
43	Culture media optimization for growth and phycoerythrin production from <i>Porphyridium purpureum</i> . <i>Biotechnology and Bioengineering</i> , 2007, 96, 456-463.	3.3	84
44	Effect of salinity on growth of green alga <i>Botryococcus braunii</i> and its constituents. <i>Bioresource Technology</i> , 2007, 98, 560-564.	9.6	348
45	Autotrophic cultivation of <i>Botryococcus braunii</i> for the production of hydrocarbons and exopolysaccharides in various media. <i>Biomass and Bioenergy</i> , 2007, 31, 87-93.	5.7	160
46	An Efficient Method for Extraction of Astaxanthin from Green Alga <i>Haematococcus pluvialis</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 7585-7588.	5.2	180
47	Presence of methyl branched fatty acids and saturated hydrocarbons in botryococcene producing strain of <i>Botryococcus braunii</i> . <i>Acta Physiologiae Plantarum</i> , 2006, 28, 251-256.	2.1	19
48	Effect of media and culture conditions on growth and hydrocarbon production by <i>Botryococcus braunii</i> . <i>Process Biochemistry</i> , 2005, 40, 3125-3131.	3.7	83
49	Digital image processing— an alternate tool for monitoring of pigment levels in cultured cells with special reference to green alga <i>Haematococcus pluvialis</i> . <i>Biosensors and Bioelectronics</i> , 2005, 21, 768-773.	10.1	12
50	Chemical Composition, Iron Bioavailability, and Antioxidant Activity of <i>Kappaphycus alvarezzi</i> (Doty). <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 792-797.	5.2	107
51	A RESPONSE SURFACE APPROACH FOR THE PRODUCTION OF NATURAL PIGMENT ASTAXANTHIN FROM GREEN ALGA, <i>HAEMATOCOCCUS PLUVIALIS</i> : EFFECT OF SODIUM ACETATE, CULTURE AGE, AND SODIUM CHLORIDE. <i>Food Biotechnology</i> , 2002, 16, 107-120.	1.5	19
52	Effect of culture conditions on growth of green alga <i>Haematococcus pluvialis</i> and astaxanthin production. <i>Acta Physiologiae Plantarum</i> , 2002, 24, 323-329.	2.1	41
53	Influence of stress on astaxanthin production in <i>Haematococcus pluvialis</i> grown under different culture conditions. <i>Process Biochemistry</i> , 2002, 37, 623-627.	3.7	216
54	Optimization of culture conditions for growth of the green alga <i>Haematococcus pluvialis</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2002, 18, 517-521.	3.6	33

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55	Studies on Haematococcus pluvialis for improved production of astaxanthin by mutagenesis. World Journal of Microbiology and Biotechnology, 2001, 17, 143-148.	3.6	46
56	Title is missing!. World Journal of Microbiology and Biotechnology, 2001, 17, 325-329.	3.6	18
57	Phycocyanin from Spirulina sp: influence of processing of biomass on phycocyanin yield, analysis of efficacy of extraction methods and stability studies on phycocyanin. Process Biochemistry, 1999, 34, 795-801.	3.7	357
58	Production of astaxanthin in Haematococcus pluvialis cultured in various media. Bioresource Technology, 1999, 68, 197-199.	9.6	84
59	Toxicity Assessment Of Phycocyanin - A Blue Colorant From Blue Green Alga Spirulina platensis. Food Biotechnology, 1999, 13, 51-66.	1.5	41
60	Capsaicin formation in p-fluorophenylalanine resistant and normal cell cultures of Capsicum frutescens and activity of phenylalanine ammonia lyase. Journal of Biosciences, 1998, 23, 209-212.	1.1	8
61	Phycocyanin, a new elicitor for capsaicin and anthocyanin accumulation in plant cell cultures. Applied Microbiology and Biotechnology, 1996, 46, 619-621.	3.6	33
62	A comparative study of single and two stage processes for methane production from tomato processing waste. Process Biochemistry, 1996, 31, 337-340.	3.7	18
63	Studies on factors influencing methane production from tomato-processing waste. Bioresource Technology, 1994, 47, 55-57.	9.6	23
64	Characterization and enumeration of microorganisms associated with anaerobic digestion of tomato-processing waste. Bioresource Technology, 1994, 49, 261-265.	9.6	16
65	Profile of hydrolases acting on major macromolecules of tomato processing waste during anaerobic digestion. Enzyme and Microbial Technology, 1993, 15, 339-342.	3.2	9
66	Biochemical changes during anaerobic digestion of tomato processing waste. Process Biochemistry, 1993, 28, 461-466.	3.7	16
67	Purification and properties of lipase from the anaerobepropionibacterium acidi-propionici. JAOCS, Journal of the American Oil Chemists' Society, 1992, 69, 974-977.	1.9	11
68	Anaerobic digestion of canteen wastes for Biogas production: process optimisation. Process Biochemistry, 1991, 26, 1-5.	3.7	19
69	Start-up anaerobic digestion of tomato-processing wastes for methane generation. Biological Wastes, 1989, 30, 231-237.	0.2	20