

Sarada Ravi

List of Publications by Year in descending order

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papers

5,268
citations

126907

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5671
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#	ARTICLE	IF	CITATIONS
1	Astaxanthin: Sources, Extraction, Stability, Biological Activities and Its Commercial Applicationsâ€”A Review. <i>Marine Drugs</i> , 2014, 12, 128-152.	4.6	1,323
2	Phycocyanin from <i>Spirulina</i> sp: influence of processing of biomass on phycocyanin yield, analysis of efficacy of extraction methods and stability studies on phycocyanin. <i>Process Biochemistry</i> , 1999, 34, 795-801.	3.7	357
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	AGROBACTERIUM-MEDIATED TRANSFORMATION IN THE GREEN ALGA <i>HAEMATOCOCCUS PLUVIALIS</i> (CHLOROPHYCEAE, VOLVOCALES). <i>Journal of Phycology</i> , 2009, 45, 642-649.	2.3	115
11	Chemical Composition, Iron Bioavailability, and Antioxidant Activity of <i>Kappaphycus alvarezii</i> (Doty). <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 792-797.	5.2	107
12	In vivo bioavailability and antioxidant activity of carotenoids from microalgal biomass â€” A repeated dose study. <i>Food Research International</i> , 2013, 54, 711-717.	6.2	95
13	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
14	Production of astaxanthin in <i>Haematococcus pluvialis</i> cultured in various media. <i>Bioresource Technology</i> , 1999, 68, 197-199.	9.6	84
15	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
16	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
17	Selection and evaluation of CO2 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
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
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	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
27	Metabolic engineering of <i>Dunaliella salina</i> for production of ketocarotenoids. <i>Photosynthesis Research</i> , 2016, 127, 321-333.	2.9	55
28	Studies on <i>Haematococcus pluvialis</i> for improved production of astaxanthin by mutagenesis. <i>World Journal of Microbiology and Biotechnology</i> , 2001, 17, 143-148.	3.6	46
29	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
30	Toxicity Assessment Of Phycocyanin - A Blue Colorant From Blue Green Alga <i>Spirulina platensis</i> . <i>Food Biotechnology</i> , 1999, 13, 51-66.	1.5	41
31	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
32	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
33	Phycocyanin, a new elicitor for capsaicin and anthocyanin accumulation in plant cell cultures. <i>Applied Microbiology and Biotechnology</i> , 1996, 46, 619-621.	3.6	33
34	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
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	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

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37	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
38	<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
39	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
40	Studies on factors influencing methane production from tomato-processing waste. <i>Bioresource Technology</i> , 1994, 47, 55-57.	9.6	23
41	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
42	Start-up anaerobic digestion of tomato-processing wastes for methane generation. <i>Biological Wastes</i> , 1989, 30, 231-237.	0.2	20
43	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
44	Anaerobic digestion of canteen wastes for Biogas production: process optimisation. <i>Process Biochemistry</i> , 1991, 26, 1-5.	3.7	19
45	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
46	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
47	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
48	A comparative study of single and two stage processes for methane production from tomato processing waste. <i>Process Biochemistry</i> , 1996, 31, 337-340.	3.7	18
49	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 2001, 17, 325-329.	3.6	18
50	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
51	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
52	Biochemical changes during anaerobic digestion of tomato processing waste. <i>Process Biochemistry</i> , 1993, 28, 461-466.	3.7	16
53	Characterization and enumeration of microorganisms associated with anaerobic digestion of tomato-processing waste. <i>Bioresource Technology</i> , 1994, 49, 261-265.	9.6	16
54	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

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55	Chlorella vulgaris cultivation in airlift photobioreactor with transparent draft tube: effect of hydrodynamics, light and carbon dioxide on biochemical profile particularly ω -6/ ω -3 fatty acid ratio. Journal of Food Science and Technology, 2020, 57, 866-876.	2.8	15
56	Evaluation of drying methods on nutritional constituents and antioxidant activities of Chlorella vulgaris cultivated in an outdoor open raceway pond. Journal of Applied Phycology, 2021, 33, 1419-1434.	2.8	13
57	Digital image processing as an alternate tool for monitoring of pigment levels in cultured cells with special reference to green alga Haematococcus pluvialis. Biosensors and Bioelectronics, 2005, 21, 768-773.	10.1	12
58	Purification and properties of lipase from the anaerobes propionibacterium acidi-propionici. JAOCS, Journal of the American Oil Chemists' Society, 1992, 69, 974-977.	1.9	11
59	Phytohormone supplementation mediated enhanced biomass production, lipid accumulation, and modulation of fatty acid profile in Porphyridium purpureum and Dunaliella salina cultures. Biocatalysis and Agricultural Biotechnology, 2022, 39, 102253.	3.1	11
60	Volatile organic compounds involved in the communication of microalgae-bacterial association extracted through Headspace-Solid phase microextraction and confirmed using gas chromatography-mass spectrophotometry. Bioresource Technology, 2022, 348, 126775.	9.6	11
61	Atheroprotective effect of novel peptides from Porphyridium purpureum in RAW 264.7 macrophage cell line and its molecular docking study. Biotechnology Letters, 2019, 41, 91-106.	2.2	10
62	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
63	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
64	Strategies for enhancement of alpha-linolenic acid rich lipids in Desmodesmus sp. without compromising the biomass production. Bioresource Technology, 2019, 294, 122215.	9.6	8
65	Gastro-protective potentials of Spirulina: role of vitamin B12. Journal of Food Science and Technology, 2020, 57, 745-753.	2.8	8
66	Stress induced modifications in photosystem II electron transport, oxidative status, and expression pattern of acc D and rbc L genes in an oleaginous microalga Desmodesmus sp.. Bioresource Technology, 2020, 318, 124039.	9.6	4
67	Improvement in vitamin B12 status of Wistar rats by supplementing the diet with Chlorella vulgaris biomass. Journal of Food Science and Technology, 2021, 58, 4270-4281.	2.8	3
68	Metabolic engineering of astaxanthin pathway and heterologous production in novel organisms. , 2021, , 151-179.		1
69	Unravelling of Chlorella associated bacterial load, diversity, and their imputed functions at high and low yield conditions through metagenome sequencing. Journal of Phycology, 2021, , .	2.3	0