Crk Reddy

List of Publications by Year
in descending order

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95 papers	5,232 citations	70961 41 h-index	95083 68 g-index
97 all docs	97 docs citations	97 times ranked	5182 citing authors

#	ARTICLE	IF	CITATIONS
1	Seaweed-microbial interactions: key functions of seaweed-associated bacteria. FEMS Microbiology Ecology, 2014, 88, 213-230.	1.3	281
2	Tropical marine macroalgae as potential sources of nutritionally important PUFAs. Food Chemistry, 2010, 120, 749-757.	4.2	231
3	Selenium and spermine alleviate cadmium induced toxicity in the red seaweed Gracilaria dura by regulating antioxidants and DNA methylation. Plant Physiology and Biochemistry, 2012, 51, 129-138.	2.8	225
4	Enzymatic hydrolysis and production of bioethanol from common macrophytic green alga Ulva fasciata Delile. Bioresource Technology, 2013, 150, 106-112.	4.8	170
5	Minerals, PUFAs and antioxidant properties of some tropical seaweeds from Saurashtra coast of India. Journal of Applied Phycology, 2011, 23, 797-810.	1.5	157
6	Isolation and characterization of exopolysaccharides from seaweed associated bacteria Bacillus licheniformis. Carbohydrate Polymers, 2011, 84, 1019-1026.	5.1	154
7	Biorefining of marine macroalgal biomass for production of biofuel and commodity chemicals. Green Chemistry, 2015, 17, 2436-2443.	4.6	149
8	Synthesis and characterization of agar-based silver nanoparticles and nanocomposite film with antibacterial applications. Bioresource Technology, 2012, 107, 295-300.	4.8	141
9	Fatty acid profiling of tropical marine macroalgae: An analysis from chemotaxonomic and nutritional perspectives. Phytochemistry, 2013, 86, 44-56.	1.4	139
10	Comparative evaluation and selection of a method for lipid and fatty acid extraction from macroalgae. Analytical Biochemistry, 2011, 415, 134-144.	1.1	121
11	Biochemical responses of red alga Gracilaria corticata (Gracilariales, Rhodophyta) to salinity induced oxidative stress. Journal of Experimental Marine Biology and Ecology, 2010, 391, 27-34.	0.7	115
12	Synthesis and characterization of seaweed cellulose derived carboxymethyl cellulose. Carbohydrate Polymers, 2017, 157, 1604-1610.	5.1	110
13	Solid state fermentation (SSF)-derived cellulase for saccharification of the green seaweed Ulva for bioethanol production. Algal Research, 2015, 9, 48-54.	2.4	105
14	Simultaneous determination of different endogenetic plant growth regulators in common green seaweeds using dispersive liquidâ€“liquid microextraction method. Plant Physiology and Biochemistry, 2011, 49, 1259-1263.	2.8	104
15	An alkali-halotolerant cellulase from Bacillus flexus isolated from green seaweed Ulva lactuca. Carbohydrate Polymers, 2011, 83, 891-897.	5.1	100
16	Differential responses to cadmium induced oxidative stress in marine macroalga Ulva lactuca (Ulvales, Chlorophyta). BioMetals, 2010, 23, 315-325.	1.8	97
17	Toxic Effects of Imidazolium Ionic Liquids on the Green Seaweed Ulva lactuca: Oxidative Stress and DNA Damage. Chemical Research in Toxicology, 2011, 24, 1882-1890.	1.7	93
18	Isolation of seaweed-associated bacteria and their morphogenesis-inducing capability in axenic cultures of the green alga Ulva fasciata. Aquatic Biology, 2011, 12, 13-21.	0.5	83

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19	Assessment of nutrient composition and antioxidant potential of Caulerpaceae seaweeds. Journal of Food Composition and Analysis, 2011, 24, 270-278.	1.9	82
20	An integrated process for the extraction of fuel and chemicals from marine macroalgal biomass. Scientific Reports, 2016, 6, 30728.	1.6	81
21	Desiccation induced oxidative stress and its biochemical responses in intertidal red alga Gracilaria corticata (Gracilariales, Rhodophyta). Environmental and Experimental Botany, 2011, 72, 194-201.	2.0	80
22	IN VITRO SOMATIC EMBRYOGENESIS AND REGENERATION OF SOMATIC EMBRYOS FROM PIGMENTED CALLUS OF KAPPAPHYCUS ALVAREZII (DOTY) DOTY (RHODOPHYTA, GIGARTINALES)1. Journal of Phycology, 2003, 39, 610-616.	1.0	78
23	Seaweed micropropagation techniques and their potentials: an overview. Journal of Applied Phycology, 2008, 20, 609-617.	1.5	74
24	Antimicrobial compounds from seaweeds-associated bacteria and fungi. Applied Microbiology and Biotechnology, 2015, 99, 1571-1586.	1.7	72
25	Integration of protein extraction with a stream of byproducts from marine macroalgae: A model forms the basis for marine bioeconomy. Bioresource Technology, 2017, 243, 867-873.	4.8	70
26	Algal lipids, fatty acids and sterols. , 2013, , 87-134.		68
27	An appraisal on commercial farming of Kappaphycus alvarezii in India: success in diversification of livelihood and prospects. Journal of Applied Phycology, 2017, 29, 335-357.	1.5	67
28	Solvent tolerant marine bacterium Bacillus aquimaris secreting organic solvent stable alkaline cellulase. Chemosphere, 2011, 83, 706-712.	4.2	62
29	Seaweed protoplasts: status, biotechnological perspectives and needs. Journal of Applied Phycology, 2008, 20, 619-632.	1.5	61
30	Seaweed-based cellulose: Applications, and future perspectives. Carbohydrate Polymers, 2021, 267, 118241.	5.1	59
31	Effect of quorum sensing signals produced by seaweed-associated bacteria on carpospore liberation from Gracilaria dura. Frontiers in Plant Science, 2015, 6, 117.	1.7	58
32	Unraveling the Functions of the Macroalgal Microbiome. Frontiers in Microbiology, 2015, 6, 1488.	1.5	58
33	Central metabolic processes of marine macrophytic algae revealed from NMR based metabolome analysis. RSC Advances, 2013, 3, 7037.	1.7	56
34	Detection of ionic liquid stable cellulase produced by the marine bacterium Pseudoalteromonas sp. isolated from brown alga Sargassum polycystum C. Agardh. Bioresource Technology, 2013, 132, 313-319.	4.8	56
35	Novel approach for selective phosphate removal using colloidal layered double hydroxide nanosheets and use of residue as fertilizer. Applied Clay Science, 2013, 86, 111-118.	2.6	56
36	Farming of seaweeds. , 2015, , 27-59.		52

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37	Differential response of varying salinity and temperature on zoospore induction, regeneration and daily growth rate in Ulva fasciata (Chlorophyta, Ulvales). Journal of Applied Phycology, 2011, 23, 243-250.	1.5	51
38	Salinity and Desiccation Induced Oxidative Stress Acclimation in Seaweeds. Advances in Botanical Research, 2014, 71, 91-123.	0.5	51
39	Role of bacterial isolates in enhancing the bud induction in the industrially important red alga Gracilaria dura. FEMS Microbiology Ecology, 2011, 76, 381-392.	1.3	48
40	Protoplast Isolation and Regeneration of Three Species of Ulva in Axenic Culture. Botanica Marina, 1989, 32, .	0.6	46
41	The carpospore culture of industrially important red alga Gracilaria dura (Gracilariales,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 58	1.7	46
42	Characterization of agarophytic seaweeds from the biorefinery context. Bioresource Technology, 2014, 159, 280-285.	4.8	46
43	Callus induction and thallus regeneration from callus of phycocolloid yielding seaweeds from the Indian coast. Journal of Applied Phycology, 2007, 19, 15-25.	1.5	45
44	Growth, pigments, and biochemical composition of marine red alga Gracilaria crassa. Journal of Applied Phycology, 2014, 26, 2143-2150.	1.5	43
45	Nitrate and Phosphate Regimes Induced Lipidomic and Biochemical Changes in the Intertidal Macroalga Ulva lactuca (Ulvophyceae, Chlorophyta). Plant and Cell Physiology, 2014, 55, 52-63.	1.5	43
46	Seaweed biorefinery: A sustainable process for valorising the biomass of brown seaweed. Journal of Cleaner Production, 2020, 263, 121359.	4.6	42
47	A simple process for recovery of a stream of products from marine macroalgal biomass. Bioresource Technology, 2016, 203, 160-165.	4.8	41
48	Production of genetically and developmentally modified seaweeds: exploiting the potential of artificial selection techniques. Frontiers in Plant Science, 2015, 6, 127.	1.7	40
49	Purification and characterization of exo-Î²-agarase from an endophytic marine bacterium and its catalytic potential in bioconversion of red algal cell wall polysaccharides into galactans. Biomass and Bioenergy, 2013, 49, 290-298.	2.9	39
50	Production of clonal planting materials from Gracilaria changii and Kappaphycus alvarezii through tissue culture and culture of G. changii explants in airlift photobioreactors. Journal of Applied Phycology, 2014, 26, 729-746.	1.5	39
51	Methyl Jasmonate-Induced Lipidomic and Biochemical Alterations in the Intertidal MacroalgaGracilaria dura(Gracilariaceae, Rhodophyta). Plant and Cell Physiology, 2015, 56, 1877-1889.	1.5	39
52	An improved enzyme preparation for rapid mass production of protoplasts as seed stock for aquaculture of macrophytic marine green algae. Aquaculture, 2006, 260, 290-297.	1.7	38
53	Production and seeding of protoplasts of Porphyra okhaensis (Bangiales, Rhodophyta) in laboratory culture. Journal of Applied Phycology, 2005, 17, 331-337.	1.5	37
54	Purification and partial characterization of an extracellular alginate lyase from Aspergillus oryzae isolated from brown seaweed. Journal of Applied Phycology, 2011, 23, 755-762.	1.5	36

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55	Regeneration of plantlets fromEnteromorpha (Ulvales, Chlorophyta) protoplasts in axenic culture. Journal of Applied Phycology, 1991, 3, 265-275.	1.5	32
56	Partial characterization of sulfohydrolase from Gracilaria dura and evaluation of its potential application in improvement of the agar quality. Carbohydrate Polymers, 2011, 85, 157-163.	5.1	32
57	Tissue culture and regeneration of thallus from callus of Gelidiella acerosa (Gelidiales, Rhodophyta). Phycologia, 2004, 43, 596-602.	0.6	31
58	Synthesis, characterization and application of green seaweed mediated silver nanoparticles (AgNPs) as antibacterial agents for water disinfection. Water Science and Technology, 2018, 78, 235-246.	1.2	30
59	The ameliorating effect of Acadian marine plant extract against ionic liquids-induced oxidative stress and DNA damage in marine macroalga Ulva lactuca. Journal of Applied Phycology, 2013, 25, 369-378.	1.5	29
60	Assessment of the Nutritive, Biochemical, Antioxidant and Antibacterial Potential of Eight Tropical Macro algae Along Kachchh Coast, India as Human Food Supplements. Journal of Aquatic Food Product Technology, 2018, 27, 61-79.	0.6	28
61	Induction of fast-growing and morphologically different strains through intergeneric protoplast fusions of Ulva and Enteromorpha (Ulvales, Chlorophyta). Journal of Applied Phycology, 1992, 4, 57-65.	1.5	25
62	Seasonal variation in biomass and species composition of seaweeds stranded along Port Okha, northwest coast of India. Journal of Earth System Science, 2008, 117, 211-218.	0.6	24
63	Growth and agarose characteristics of isomorphic gametophyte (male and female) and sporophyte of Gracilaria dura and their marker assisted selection. Aquaculture, 2011, 318, 389-396.	1.7	24
64	Molecular Phylogeny and Barcoding of Caulerpa (Bryopsidales) Based on the tufA, rbcL, 18S rDNA and ITS rDNA Genes. PLoS ONE, 2013, 8, e82438.	1.1	24
65	Optimization of protoplast yields from the red algae Gracilaria dura (C. Agardh) J. Agardh and G. verrucosa (Huds.) Papenfuss. Journal of Applied Phycology, 2011, 23, 209-218.	1.5	23
66	Marine Microbes as a Potential Source of Cellulolytic Enzymes. Advances in Food and Nutrition Research, 2016, 79, 27-41.	1.5	22
67	Marine macroalgal nursery: A model for sustainable production of seedlings for large scale farming. Algal Research, 2018, 31, 463-468.	2.4	22
68	Bacterial extracellular polymeric substances and their effect on settlement of zoospore of Ulva fasciata. Colloids and Surfaces B: Biointerfaces, 2013, 103, 223-230.	2.5	21
69	Development of an improved method of cultivation to obtain high biomass of the red alga Gelidiella acerosa (Gelidiales, Rhodophyta) in the open sea. Biomass and Bioenergy, 2011, 35, 2729-2736.	2.9	19
70	Cultivation of Gelidiella acerosa in the open sea on the southeastern coast of India. Marine Ecology - Progress Series, 2009, 382, 49-57.	0.9	19
71	Farming of agarophytes in Indiaâ€"a long-time sustainability for the industry and preserving wild stocks. Journal of Applied Phycology, 2017, 29, 2239-2248.	1.5	18
72	Production of quality seaweed biomass through nutrient optimization for the sustainable land-based cultivation. Algal Research, 2019, 42, 101583.	2.4	18

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73	Development and Characterization of Somatic Hybrids of Ulva reticulata ForsskÃƒÂ¥l (Ãƒâ€”) Monostroma oxyspermum (Kutz.)Doty. Frontiers in Plant Science, 2015, 6, 3.	1.7	17
74	Non-Targeted Secondary Metabolite Profile Study for Deciphering the Cosmeceutical Potential of Red Marine Macro Alga Jania rubensâ€"An LCMS-Based Approach. Cosmetics, 2017, 4, 45.	1.5	17
75	Detection of Epigenetic Variations in the Protoplast-Derived Germlings of Ulva reticulata Using Methylation Sensitive Amplification Polymorphism (MSAP). Marine Biotechnology, 2012, 14, 692-700.	1.1	16
76	Regeneration of the thallus of Monostroma oxyspermum (Chlorophyta) from protoplasts in axenic culture. Phycologia, 1999, 38, 503-507.	0.6	15
77	Seasonal variation in the biomass, quantity and quality of agar from Gelidiella acerosa (Forsskal) Feldmann et Hamel (Gelidiales, Rhodophyta) from the Gulf of Mannar Marine Biosphere Reserve, India. Phycological Research, 2008, 56, 93-104.	0.8	15
78	Impact of cultivation on growth rate and agar content of Gelidiella acerosa (Gelidiales, Rhodophyta). Algal Research, 2015, 12, 398-404.	2.4	14
79	Seaweed Metabolomics. Advances in Botanical Research, 2014, 71, 31-52.	0.5	13
80	More sustainable biomass production and biorefining to boost the bioeconomy. Biofuels, Bioproducts and Biorefining, 2021, 15, 1221-1232.	1.9	13
81	Developments in Biotechnology of Red Algae. Cellular Origin and Life in Extreme Habitats, 2010, , 307-341.	0.3	12
82	Polyamines in morphogenesis and development: a promising research area in seaweeds. Frontiers in Plant Science, 2015, 6, 27.	1.7	10
83	Micro-propagation of Kappaphycus and Eucheuma: Trends and Prospects. , 2017, , 91-110.		10
84	Genetic analysis and marker assisted identification of life phases of red alga Gracilaria corticata (J.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.0	9
85	Nonâ€targeted metabolomics approach to assess the brown marine macroalga Dictyota dichotoma as a functional food using liquid chromatography with mass spectrometry. Separation Science Plus, 2020, 3, 140-149.	0.3	8
86	Estimation of Lipid Hydroperoxide Levels in Tropical Marine Macroalgae. Journal of Phycology, 2012, 48, 1362-1373.	1.0	7
87	Somatic Hybridization in Algae. Biotechnology in Agriculture and Forestry, 1994, , 483-502.	0.2	7
88	High yield cultivation of marine macroalga Ulva lactuca in a multi-tubular airlift photobioreactor: A scalable model for quality feedstock. Journal of Cleaner Production, 2021, 329, 129746.	4.6	7
89	Macroalgal Functional Genomics: A Missing Area. , 2017, , 3-12.		3
90	Seaweed micropropagation techniques and their potentials: an overview. , 2007, , 159-167.		2

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91	Biofuels and bioproducts from seaweeds. , 2022, , 431-455.		2
92	Reproductive Processes in Red Algal Genus Gracilaria and Impact of Climate Change. Cellular Origin and Life in Extreme Habitats, 2010, , 319-338.	0.3	1
93	Influence of ultraviolet radiation on spore liberation in marine macroalgae Ulva fasciata (Ulvales,) Tj ETQq1 1 0.784314 rgBT /Overlock 1 58, 293-297.	0.8	0
94	Internal Transcribed Spacer (ITS) Region Targeted Molecular Characterization of Macroalgal Diversity Along the Overlooked Expanse of Gulf of Kachchh, India. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 0, , 1.	0.4	0
95	Seaweed protoplasts: status, biotechnological perspectives and needs. , 2007, , 169-182.		0