

# Crk Reddy

## List of Publications by Year in descending order

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95  
papers

5,232  
citations

70961

41  
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95083

68  
g-index

97  
all docs

97  
docs citations

97  
times ranked

5182  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biofuels and bioproducts from seaweeds. , 2022, , 431-455.		2
2	More sustainable biomass production and biorefining to boost the bioeconomy. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 1221-1232.	1.9	13
3	Seaweed-based cellulose: Applications, and future perspectives. <i>Carbohydrate Polymers</i> , 2021, 267, 118241.	5.1	59
4	High yield cultivation of marine macroalga <i>Ulva lactuca</i> in a multi-tubular airlift photobioreactor: A scalable model for quality feedstock. <i>Journal of Cleaner Production</i> , 2021, 329, 129746.	4.6	7
5	Non-targeted metabolomics approach to assess the brown marine macroalga <i>Dictyota dichotoma</i> as a functional food using liquid chromatography with mass spectrometry. <i>Separation Science Plus</i> , 2020, 3, 140-149.	0.3	8
6	Seaweed biorefinery: A sustainable process for valorising the biomass of brown seaweed. <i>Journal of Cleaner Production</i> , 2020, 263, 121359.	4.6	42
7	Production of quality seaweed biomass through nutrient optimization for the sustainable land-based cultivation. <i>Algal Research</i> , 2019, 42, 101583.	2.4	18
8	Marine macroalgal nursery: A model for sustainable production of seedlings for large scale farming. <i>Algal Research</i> , 2018, 31, 463-468.	2.4	22
9	Assessment of the Nutritive, Biochemical, Antioxidant and Antibacterial Potential of Eight Tropical Macro algae Along Kachchh Coast, India as Human Food Supplements. <i>Journal of Aquatic Food Product Technology</i> , 2018, 27, 61-79.	0.6	28
10	Synthesis, characterization and application of green seaweed mediated silver nanoparticles (AgNPs) as antibacterial agents for water disinfection. <i>Water Science and Technology</i> , 2018, 78, 235-246.	1.2	30
11	Farming of agarophytes in India—a long-time sustainability for the industry and preserving wild stocks. <i>Journal of Applied Phycology</i> , 2017, 29, 2239-2248.	1.5	18
12	Micro-propagation of <i>Kappaphycus</i> and <i>Eucheuma</i> : Trends and Prospects. , 2017, , 91-110.		10
13	Macroalgal Functional Genomics: A Missing Area. , 2017, , 3-12.		3
14	Integration of protein extraction with a stream of byproducts from marine macroalgae: A model forms the basis for marine bioeconomy. <i>Bioresource Technology</i> , 2017, 243, 867-873.	4.8	70
15	Synthesis and characterization of seaweed cellulose derived carboxymethyl cellulose. <i>Carbohydrate Polymers</i> , 2017, 157, 1604-1610.	5.1	110
16	An appraisal on commercial farming of <i>Kappaphycus alvarezii</i> in India: success in diversification of livelihood and prospects. <i>Journal of Applied Phycology</i> , 2017, 29, 335-357.	1.5	67
17	Non-Targeted Secondary Metabolite Profile Study for Deciphering the Cosmeceutical Potential of Red Marine Macro Alga <i>Jania rubens</i> —An LCMS-Based Approach. <i>Cosmetics</i> , 2017, 4, 45.	1.5	17
18	An integrated process for the extraction of fuel and chemicals from marine macroalgal biomass. <i>Scientific Reports</i> , 2016, 6, 30728.	1.6	81

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19	Marine Microbes as a Potential Source of Cellulolytic Enzymes. <i>Advances in Food and Nutrition Research</i> , 2016, 79, 27-41.	1.5	22
20	A simple process for recovery of a stream of products from marine macroalgal biomass. <i>Bioresource Technology</i> , 2016, 203, 160-165.	4.8	41
21	Production of genetically and developmentally modified seaweeds: exploiting the potential of artificial selection techniques. <i>Frontiers in Plant Science</i> , 2015, 6, 127.	1.7	40
22	Antimicrobial compounds from seaweeds-associated bacteria and fungi. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1571-1586.	1.7	72
23	Biorefining of marine macroalgal biomass for production of biofuel and commodity chemicals. <i>Green Chemistry</i> , 2015, 17, 2436-2443.	4.6	149
24	Solid state fermentation (SSF)-derived cellulase for saccharification of the green seaweed <i>Ulva</i> for bioethanol production. <i>Algal Research</i> , 2015, 9, 48-54.	2.4	105
25	Polyamines in morphogenesis and development: a promising research area in seaweeds. <i>Frontiers in Plant Science</i> , 2015, 6, 27.	1.7	10
26	Development and Characterization of Somatic Hybrids of <i>Ulva reticulata</i> Forssk. (Algae) and <i>Monostroma oxyspermum</i> (Kütz.) Doty. <i>Frontiers in Plant Science</i> , 2015, 6, 3.	1.7	17
27	Effect of quorum sensing signals produced by seaweed-associated bacteria on carpospore liberation from <i>Gracilaria dura</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 117.	1.7	58
28	Impact of cultivation on growth rate and agar content of <i>Gelidiella acerosa</i> (Gelidiales, Rhodophyta). <i>Algal Research</i> , 2015, 12, 398-404.	2.4	14
29	Farming of seaweeds. , 2015, , 27-59.		52
30	Methyl Jasmonate-Induced Lipidomic and Biochemical Alterations in the Intertidal Macroalga <i>Gracilaria dura</i> (Gracilariaceae, Rhodophyta). <i>Plant and Cell Physiology</i> , 2015, 56, 1877-1889.	1.5	39
31	Unraveling the Functions of the Macroalgal Microbiome. <i>Frontiers in Microbiology</i> , 2015, 6, 1488.	1.5	58
32	Seaweed Metabolomics. <i>Advances in Botanical Research</i> , 2014, 71, 31-52.	0.5	13
33	Salinity and Desiccation Induced Oxidative Stress Acclimation in Seaweeds. <i>Advances in Botanical Research</i> , 2014, 71, 91-123.	0.5	51
34	Growth, pigments, and biochemical composition of marine red alga <i>Gracilaria crassa</i> . <i>Journal of Applied Phycology</i> , 2014, 26, 2143-2150.	1.5	43
35	Seaweed-microbial interactions: key functions of seaweed-associated bacteria. <i>FEMS Microbiology Ecology</i> , 2014, 88, 213-230.	1.3	281
36	Nitrate and Phosphate Regimes Induced Lipidomic and Biochemical Changes in the Intertidal Macroalga <i>Ulva lactuca</i> (Ulvophyceae, Chlorophyta). <i>Plant and Cell Physiology</i> , 2014, 55, 52-63.	1.5	43

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37	Production of clonal planting materials from <i>Gracilaria changii</i> and <i>Kappaphycus alvarezii</i> through tissue culture and culture of <i>G. changii</i> explants in airlift photobioreactors. <i>Journal of Applied Phycology</i> , 2014, 26, 729-746.	1.5	39
38	Characterization of agarophytic seaweeds from the biorefinery context. <i>Bioresource Technology</i> , 2014, 159, 280-285.	4.8	46
39	Central metabolic processes of marine macrophytic algae revealed from NMR based metabolome analysis. <i>RSC Advances</i> , 2013, 3, 7037.	1.7	56
40	Enzymatic hydrolysis and production of bioethanol from common macrophytic green alga <i>Ulva fasciata</i> Delile. <i>Bioresource Technology</i> , 2013, 150, 106-112.	4.8	170
41	Detection of ionic liquid stable cellulase produced by the marine bacterium <i>Pseudoalteromonas</i> sp. isolated from brown alga <i>Sargassum polycystum</i> C. Agardh. <i>Bioresource Technology</i> , 2013, 132, 313-319.	4.8	56
42	Purification and characterization of $\alpha$ -D-glucanase from an endophytic marine bacterium and its catalytic potential in bioconversion of red algal cell wall polysaccharides into galactans. <i>Biomass and Bioenergy</i> , 2013, 49, 290-298.	2.9	39
43	Fatty acid profiling of tropical marine macroalgae: An analysis from chemotaxonomic and nutritional perspectives. <i>Phytochemistry</i> , 2013, 86, 44-56.	1.4	139
44	Novel approach for selective phosphate removal using colloidal layered double hydroxide nanosheets and use of residue as fertilizer. <i>Applied Clay Science</i> , 2013, 86, 111-118.	2.6	56
45	Bacterial extracellular polymeric substances and their effect on settlement of zoospore of <i>Ulva fasciata</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 223-230.	2.5	21
46	The ameliorating effect of Acadian marine plant extract against ionic liquids-induced oxidative stress and DNA damage in marine macroalga <i>Ulva lactuca</i> . <i>Journal of Applied Phycology</i> , 2013, 25, 369-378.	1.5	29
47	Algal lipids, fatty acids and sterols. , 2013, , 87-134.		68
48	Molecular Phylogeny and Barcoding of <i>Caulerpa</i> (Bryopsidales) Based on the <i>tufA</i> , <i>rbcl</i> , 18S rDNA and ITS rDNA Genes. <i>PLoS ONE</i> , 2013, 8, e82438.	1.1	24
49	Estimation of Lipid Hydroperoxide Levels in Tropical Marine Macroalgae. <i>Journal of Phycology</i> , 2012, 48, 1362-1373.	1.0	7
50	Detection of Epigenetic Variations in the Protoplast-Derived Germlings of <i>Ulva reticulata</i> Using Methylation Sensitive Amplification Polymorphism (MSAP). <i>Marine Biotechnology</i> , 2012, 14, 692-700.	1.1	16
51	Synthesis and characterization of agar-based silver nanoparticles and nanocomposite film with antibacterial applications. <i>Bioresource Technology</i> , 2012, 107, 295-300.	4.8	141
52	Selenium and spermine alleviate cadmium induced toxicity in the red seaweed <i>Gracilaria dura</i> by regulating antioxidants and DNA methylation. <i>Plant Physiology and Biochemistry</i> , 2012, 51, 129-138.	2.8	225
53	Toxic Effects of Imidazolium Ionic Liquids on the Green Seaweed <i>Ulva lactuca</i> : Oxidative Stress and DNA Damage. <i>Chemical Research in Toxicology</i> , 2011, 24, 1882-1890.	1.7	93
54	Isolation of seaweed-associated bacteria and their morphogenesis-inducing capability in axenic cultures of the green alga <i>Ulva fasciata</i> . <i>Aquatic Biology</i> , 2011, 12, 13-21.	0.5	83

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55	Growth and agarose characteristics of isomorphic gametophyte (male and female) and sporophyte of <i>Gracilaria dura</i> and their marker assisted selection. <i>Aquaculture</i> , 2011, 318, 389-396.	1.7	24
56	Role of bacterial isolates in enhancing the bud induction in the industrially important red alga <i>Gracilaria dura</i> . <i>FEMS Microbiology Ecology</i> , 2011, 76, 381-392.	1.3	48
57	Simultaneous determination of different endogenous plant growth regulators in common green seaweeds using dispersive liquid-liquid microextraction method. <i>Plant Physiology and Biochemistry</i> , 2011, 49, 1259-1263.	2.8	104
58	Desiccation induced oxidative stress and its biochemical responses in intertidal red alga <i>Gracilaria corticata</i> (Gracilariales, Rhodophyta). <i>Environmental and Experimental Botany</i> , 2011, 72, 194-201.	2.0	80
59	Solvent tolerant marine bacterium <i>Bacillus aquimaris</i> secreting organic solvent stable alkaline cellulase. <i>Chemosphere</i> , 2011, 83, 706-712.	4.2	62
60	Differential response of varying salinity and temperature on zoospore induction, regeneration and daily growth rate in <i>Ulva fasciata</i> (Chlorophyta, Ulvales). <i>Journal of Applied Phycology</i> , 2011, 23, 243-250.	1.5	51
61	Purification and partial characterization of an extracellular alginate lyase from <i>Aspergillus oryzae</i> isolated from brown seaweed. <i>Journal of Applied Phycology</i> , 2011, 23, 755-762.	1.5	36
62	Minerals, PUFAs and antioxidant properties of some tropical seaweeds from Saurashtra coast of India. <i>Journal of Applied Phycology</i> , 2011, 23, 797-810.	1.5	157
63	Optimization of protoplast yields from the red algae <i>Gracilaria dura</i> (C. Agardh) J. Agardh and <i>G. verrucosa</i> (Huds.) Papenfuss. <i>Journal of Applied Phycology</i> , 2011, 23, 209-218.	1.5	23
64	Genetic analysis and marker assisted identification of life phases of red alga <i>Gracilaria corticata</i> (J.) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.0	
65	Isolation and characterization of exopolysaccharides from seaweed associated bacteria <i>Bacillus licheniformis</i> . <i>Carbohydrate Polymers</i> , 2011, 84, 1019-1026.	5.1	154
66	An alkali-halotolerant cellulase from <i>Bacillus flexus</i> isolated from green seaweed <i>Ulva lactuca</i> . <i>Carbohydrate Polymers</i> , 2011, 83, 891-897.	5.1	100
67	Partial characterization of sulfhydrolase from <i>Gracilaria dura</i> and evaluation of its potential application in improvement of the agar quality. <i>Carbohydrate Polymers</i> , 2011, 85, 157-163.	5.1	32
68	Comparative evaluation and selection of a method for lipid and fatty acid extraction from macroalgae. <i>Analytical Biochemistry</i> , 2011, 415, 134-144.	1.1	121
69	Development of an improved method of cultivation to obtain high biomass of the red alga <i>Gelidiella acerosa</i> (Gelidiales, Rhodophyta) in the open sea. <i>Biomass and Bioenergy</i> , 2011, 35, 2729-2736.	2.9	19
70	Assessment of nutrient composition and antioxidant potential of Caulerpaceae seaweeds. <i>Journal of Food Composition and Analysis</i> , 2011, 24, 270-278.	1.9	82
71	Differential responses to cadmium induced oxidative stress in marine macroalga <i>Ulva lactuca</i> (Ulvales, Chlorophyta). <i>BioMetals</i> , 2010, 23, 315-325.	1.8	97
72	Biochemical responses of red alga <i>Gracilaria corticata</i> (Gracilariales, Rhodophyta) to salinity induced oxidative stress. <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 391, 27-34.	0.7	115

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73	Tropical marine macroalgae as potential sources of nutritionally important PUFAs. Food Chemistry, 2010, 120, 749-757.	4.2	231
74	Influence of ultraviolet radiation on spore liberation in marine macroalgae <i>Ulva fasciata</i> (Ulvales,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 58, 293-297.	0.8	0
75	Reproductive Processes in Red Algal Genus <i>Gracilaria</i> and Impact of Climate Change. Cellular Origin and Life in Extreme Habitats, 2010, , 319-338.	0.3	1
76	Developments in Biotechnology of Red Algae. Cellular Origin and Life in Extreme Habitats, 2010, , 307-341.	0.3	12
77	The carpospore culture of industrially important red alga <i>Gracilaria dura</i> (Gracilariales,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 58 1.7 46	1.7	46
78	Cultivation of <i>Gelidiella acerosa</i> in the open sea on the southeastern coast of India. Marine Ecology - Progress Series, 2009, 382, 49-57.	0.9	19
79	Seaweed micropropagation techniques and their potentials: an overview. Journal of Applied Phycology, 2008, 20, 609-617.	1.5	74
80	Seaweed protoplasts: status, biotechnological perspectives and needs. Journal of Applied Phycology, 2008, 20, 619-632.	1.5	61
81	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
82	Seasonal variation in the biomass, quantity and quality of agar from <i>Gelidiella acerosa</i> (Forsskal) Feldmann <i>et al</i> Hamel (Gelidiales, Rhodophyta) from the Gulf of Mannar Marine Biosphere Reserve, India. Phycological Research, 2008, 56, 93-104.	0.8	15
83	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
84	Seaweed micropropagation techniques and their potentials: an overview. , 2007, , 159-167.		2
85	Seaweed protoplasts: status, biotechnological perspectives and needs. , 2007, , 169-182.		0
86	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
87	Production and seeding of protoplasts of <i>Porphyra okhaensis</i> (Bangiales, Rhodophyta) in laboratory culture. Journal of Applied Phycology, 2005, 17, 331-337.	1.5	37
88	Tissue culture and regeneration of thallus from callus of <i>Gelidiella acerosa</i> (Gelidiales, Rhodophyta). Phycologia, 2004, 43, 596-602.	0.6	31
89	IN VITRO SOMATIC EMBRYOGENESIS AND REGENERATION OF SOMATIC EMBRYOS FROM PIGMENTED CALLUS OF <i>KAPPAPHYCUS ALVAREZII</i> (DOTY) DOTY (RHODOPHYTA, GIGARTINALES)1. Journal of Phycology, 2003, 39, 610-616.	1.0	78
90	Regeneration of the thallus of <i>Monostroma oxyspermum</i> (Chlorophyta) from protoplasts in axenic culture. Phycologia, 1999, 38, 503-507.	0.6	15

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91	Somatic Hybridization in Algae. <i>Biotechnology in Agriculture and Forestry</i> , 1994, , 483-502.	0.2	7
92	Induction of fast-growing and morphologically different strains through intergeneric protoplast fusions of <i>Ulva</i> and <i>Enteromorpha</i> (Ulvales, Chlorophyta). <i>Journal of Applied Phycology</i> , 1992, 4, 57-65.	1.5	25
93	Regeneration of plantlets from <i>Enteromorpha</i> (Ulvales, Chlorophyta) protoplasts in axenic culture. <i>Journal of Applied Phycology</i> , 1991, 3, 265-275.	1.5	32
94	Protoplast Isolation and Regeneration of Three Species of <i>Ulva</i> in Axenic Culture. <i>Botanica Marina</i> , 1989, 32, .	0.6	46
95	Internal Transcribed Spacer (ITS) Region Targeted Molecular Characterization of Macroalgal Diversity Along the Overlooked Expanse of Gulf of Kachchh, India. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 0, , 1.	0.4	0