Arup Ghosh

List of Publications by Year
in descending order

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61 papers	2,873 citations	147801 31 h-index	182427 51 g-index
67 all docs	67 docs citations	67 times ranked	2653 citing authors

#	Article	IF	Citations
1	Role of Kappaphycus alvarezii seaweed extract and its active constituents, glycine betaine, choline chloride, and zeatin in the alleviation of drought stress at critical growth stages of maize crop. Journal of Applied Phycology, 2022, 34, 1791-1804.	2.8	14
2	Structural and functional changes in soil bacterial communities by drifting spray application of a commercial red seaweed extract as revealed by metagenomics. Archives of Microbiology, 2022, 204, 72.	2.2	14
3	Characterization and metabolomics profiling of Kappaphycus alvarezii seaweed extract. Algal Research, 2022, 66, 102774.	4.6	16
4	Potassium Influencing Physiological Parameters, Photosynthesis and Sugarcane Yield in Subtropical India. Sugar Tech, 2021, 23, 343-359.	1.8	9
5	Seaweed-based biostimulant improves photosynthesis and effectively enhances growth and biofuel potential of a green microalga Chlorella variabilis. Aquaculture International, 2021, 29, 963-975.	2.2	6
6	Transcriptional Analysis of Maize Leaf Tissue Treated With Seaweed Extract Under Drought Stress. Frontiers in Sustainable Food Systems, 2021, 5, .	3.9	15
7	Science behind biostimulant action of seaweed extract on growth and crop yield: insights into transcriptional changes in roots of maize treated with Kappaphycus alvarezii seaweed extract under soil moisture stressed conditions. Journal of Applied Phycology, 2020, 32, 599-613.	2.8	50
8	Utilization of Leptolyngbya boryana mat for modulating nutrient uptake and its translocation in rice (Oryza sativa). Bioresource Technology Reports, 2020, 12, 100575.	2.7	2
9	Physiological responses of the green microalga Acutodesmus dimorphus to temperature induced oxidative stress conditions. Physiologia Plantarum, 2020, 170, 462-473.	5.2	14
10	Characterization of a chitosanâ€based sustained release nanofertilizer formulation used as a soil conditioner while simultaneously improving biomass production of Zea mays L.. Land Degradation and Development, 2020, 31, 2734-2746.	3.9	59
11	Foliar Application of Seaweed Sap Enhances Growth, Yield and Quality of Maize in Eastern Himalayas. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2019, 89, 221-229.	1.0	11
12	Drought alleviatory potential of Kappaphycus seaweed extract and the role of the quaternary ammonium compounds as its constituents towards imparting drought tolerance in Zea mays L.. Journal of Applied Phycology, 2018, 30, 2001-2015.	2.8	34
13	Study of fluoride content in some commercial phosphate fertilizers. Journal of Fluorine Chemistry, 2018, 210, 149-155.	1.7	48
14	Seaweed extract as organic bio-stimulant improves productivity and quality of rice in eastern Himalayas. Journal of Applied Phycology, 2018, 30, 547-558.	2.8	78
15	Life cycle impact assessment of a seaweed product obtained from Gracilaria edulis â€“ A potent plant biostimulant. Journal of Cleaner Production, 2018, 170, 1621-1627.	9.3	45
16	Differential growth, yield and biochemical responses of maize to the exogenous application of Kappaphycus alvarezii seaweed extract, at grain-filling stage under normal and drought conditions. Algal Research, 2018, 35, 236-244.	4.6	49
17	Can we not mitigate climate change using seaweed based biostimulant: A case study with sugarcane cultivation in India. Journal of Cleaner Production, 2018, 204, 992-1003.	9.3	27
18	Effect of seaweed sap as foliar spray on growth and yield of hybrid maize. Journal of Plant Nutrition, 2018, 41, 1851-1861.	1.9	37

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19	Sustainable agro-technology for enhancement of rice production in the red and lateritic soils using seaweed based biostimulants. Journal of Cleaner Production, 2017, 149, 968-975.	9.3	32
20	Salinity induced oxidative stress alters the physiological responses and improves the biofuel potential of green microalgae Acutodesmus dimorphus. Bioresource Technology, 2017, 244, 1376-1383.	9.6	122
21	Growth, yield and quality improvement of potato tubers through the application of seaweed sap derived from the marine alga Kappaphycus alvarezii. Journal of Applied Phycology, 2017, 29, 3253-3260.	2.8	38
22	Crop stage selection is vital to elicit optimal response of maize to seaweed bio-stimulant application. Journal of Applied Phycology, 2017, 29, 2135-2144.	2.8	26
23	Nitrogen starvation-induced cellular crosstalk of ROS-scavenging antioxidants and phytohormone enhanced the biofuel potential of green microalga Acutodesmus dimorphus. Biotechnology for Biofuels, 2017, 10, 60.	6.2	157
24	Oxidative Stress-Induced Bioprospecting of Microalgae. , 2017, , 251-276.		2
25	Evaluation of Fertilizer Potential of Different K Compounds Prepared Utilizing Sea Bittern as Feed Stock. Frontiers in Plant Science, 2017, 8, 1541.	3.6	13
26	Molecular characterization of genetic and epigenetic divergence in selected Jatropha curcas L. germplasm using AFLP and MS-AFLP markers. Plant Gene, 2016, 8, 42-49.	2.3	7
27	Trait selection by path and principal component analysis in Jatropha curcas for enhanced oil yield. Industrial Crops and Products, 2016, 86, 173-179.	5.2	22
28	Applications of de-oiled microalgal biomass towards development of sustainable biorefinery. Bioresource Technology, 2016, 214, 787-796.	9.6	77
29	Non-isothermal pyrolysis of de-oiled microalgal biomass: Kinetics and evolved gas analysis. Bioresource Technology, 2016, 221, 251-261.	9.6	45
30	Microalgal biomass generation by phycoremediation of dairy industry wastewater: An integrated approach towards sustainable biofuel production. Bioresource Technology, 2016, 221, 455-460.	9.6	144
31	Green synthesis, characterization and antioxidant potential of silver nanoparticles biosynthesized from de-oiled biomass of thermotolerant oleaginous microalgae Acutodesmus dimorphus. RSC Advances, 2016, 6, 72269-72274.	3.6	81
32	Development of Jatropha hybrids with enhanced growth, yield and oil attributes suitable for semi-arid wastelands. Agroforestry Systems, 2016, 90, 541-553.	2.0	3
33	Hydrolysate of lipid extracted microalgal biomass residue: An algal growth promoter and enhancer. Bioresource Technology, 2016, 207, 197-204.	9.6	36
34	Microalgal carotenoids: Potential nutraceutical compounds with chemotaxonomic importance. Algal Research, 2016, 15, 24-31.	4.6	66
35	Genetic variability, character association and divergence studies in Jatropha curcas for improvement in oil yield. Trees - Structure and Function, 2016, 30, 1163-1180.	1.9	8
36	Growth medium standardization and thermotolerance study of the freshwater microalga Acutodesmus dimorphusâ€"a potential strain for biofuel production. Journal of Applied Phycology, 2016, 28, 2687-2696.	2.8	18

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37	Insights into the role of seaweed Kappaphycus alvarezii sap towards phytohormone signalling and regulating defence responsive genes in Lycopersicon esculentum. Journal of Applied Phycology, 2016, 28, 2529-2537.	2.8	38
38	Sustainable enhancement in yield and quality of rain-fed maize through Gracilaria edulis and Kappaphycus alvarezii seaweed sap. Journal of Applied Phycology, 2016, 28, 2099-2112.	2.8	72
39	Effect of Nitrogen Management on Soil Microbial Community and Enzymatic Activities in Jatropha curcas L. Plantation. Clean - Soil, Air, Water, 2015, 43, 1058-1065.	1.1	9
40	Seaweed sap: a sustainable way to improve productivity of maize in North-East India. International Journal of Environmental Studies, 2015, 72, 305-315.	1.6	43
41	Long-term application of Jatropha press cake promotes seed yield by enhanced soil organic carbon accumulation, microbial biomass and enzymatic activities in soils of semi-arid tropical wastelands. European Journal of Soil Biology, 2015, 69, 57-65.	3.2	29
42	Life cycle impact assessment of seaweed based biostimulant production from onshore cultivated Kappaphycus alvarezii (Doty) Doty ex Silvaâ€"Is it environmentally sustainable?. Algal Research, 2015, 12, 513-521.	4.6	61
43	Biofuel potential of the newly isolated microalgae Acutodesmus dimorphus under temperature induced oxidative stress conditions. Bioresource Technology, 2015, 180, 162-171.	9.6	132
44	Salinity induced oxidative stress enhanced biofuel production potential of microalgae Scenedesmus sp. CCNM 1077. Bioresource Technology, 2015, 189, 341-348.	9.6	264
45	Soil microbial diversity shift as affected by conversion of shallow and rocky wastelands toJatropha curcasL. plantation. International Journal of Environmental Studies, 2015, 72, 631-649.	1.6	0
46	Elimination of gibberellin from Kappaphycus alvarezii seaweed sap foliar spray enhances corn stover production without compromising the grain yield advantage. Plant Growth Regulation, 2015, 75, 657-666.	3.4	55
47	Lipid Extracted Microalgal Biomass Residue as a Fertilizer Substitute for Zea mays L.. Frontiers in Plant Science, 2015, 6, 1266.	3.6	49
48	Effect of seaweed saps on growth and yield improvement of transplanted rice in old alluvial soil of West Bengal. Bangladesh Journal of Botany, 2014, 43, 53-58.	0.4	34
49	DNA methylation and methylation polymorphism in ecotypes of Jatropha curcas L. using methylation-sensitive AFLP markers. Molecular Biology Reports, 2014, 41, 8261-8271.	2.3	6
50	Observations on ecosystem services inJatropha curcasplantations established in degraded lands in India. International Journal of Environmental Studies, 2014, 71, 209-214.	1.6	10
51	Biosorption of Methylene Blue by De-Oiled Algal Biomass: Equilibrium, Kinetics and Artificial Neural Network Modelling. PLoS ONE, 2014, 9, e109545.	2.5	60
52	Fuel intermediates, agricultural nutrients and pure water from Kappaphycus alvarezii seaweed. RSC Advances, 2013, 3, 17989.	3.6	43
53	Bioaccumulation of nutrient elements from fly ash-amended soil in Jatropha curcas L.: a biofuel crop. Environmental Monitoring and Assessment, 2013, 185, 6705-6712.	2.7	16
54	Genetic Improvement in Jatropha curcas Through Selection and Breeding. , 2013, , 119-133.		8

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55	Value-Addition of Jatropha Cake and Its Utilization as Manure in Jatropha and Other Crops. , 2012, , 355-368.		4
56	Molecular characterization of intra-population variability of Jatropha curcas L. using DNA based molecular markers. Molecular Biology Reports, 2012, 39, 4383-4390.	2.3	26
57	Diminution of economic yield as affected by pruning and chemical manipulation of Jatropha curcas L.. Biomass and Bioenergy, 2011, 35, 1021-1029.	5.7	34
58	Paclobutrazol Arrests Vegetative Growth and Unveils Unexpressed Yield Potential of Jatropha curcas. Journal of Plant Growth Regulation, 2010, 29, 307-315.	5.1	74
59	Effect of seaweed extract on the growth, yield and nutrient uptake of soybean (Glycine max) under rainfed conditions. South African Journal of Botany, 2009, 75, 351-355.	2.5	261
60	Soil Characteristics and Mineral Nutrient in Wild Jatropha Population of India. Communications in Soil Science and Plant Analysis, 2008, 39, 1476-1485.	1.4	15
61	Prospects for jatropha methyl ester (biodiesel) in India. International Journal of Environmental Studies, 2007, 64, 659-674.	1.6	97