

# Arup Ghosh

## List of Publications by Year in descending order

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61  
papers

2,873  
citations

168829

31  
h-index

206121

51  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2940  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of <i>Kappaphycus alvarezii</i> 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. <i>Journal of Applied Phycology</i> , 2022, 34, 1791-1804.	1.5	14
2	Structural and functional changes in soil bacterial communities by drifting spray application of a commercial red seaweed extract as revealed by metagenomics. <i>Archives of Microbiology</i> , 2022, 204, 72.	1.0	14
3	Characterization and metabolomics profiling of <i>Kappaphycus alvarezii</i> seaweed extract. <i>Algal Research</i> , 2022, 66, 102774.	2.4	16
4	Potassium Influencing Physiological Parameters, Photosynthesis and Sugarcane Yield in Subtropical India. <i>Sugar Tech</i> , 2021, 23, 343-359.	0.9	9
5	Seaweed-based biostimulant improves photosynthesis and effectively enhances growth and biofuel potential of a green microalga <i>Chlorella variabilis</i> . <i>Aquaculture International</i> , 2021, 29, 963-975.	1.1	6
6	Transcriptional Analysis of Maize Leaf Tissue Treated With Seaweed Extract Under Drought Stress. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	15
7	Science behind biostimulant action of seaweed extract on growth and crop yield: insights into transcriptional changes in roots of maize treated with <i>Kappaphycus alvarezii</i> seaweed extract under soil moisture stressed conditions. <i>Journal of Applied Phycology</i> , 2020, 32, 599-613.	1.5	50
8	Utilization of <i>Leptolyngbya boryana</i> mat for modulating nutrient uptake and its translocation in rice ( <i>Oryza sativa</i> ). <i>Bioresource Technology Reports</i> , 2020, 12, 100575.	1.5	2
9	Physiological responses of the green microalga <i>Acutodesmus dimorphus</i> to temperature induced oxidative stress conditions. <i>Physiologia Plantarum</i> , 2020, 170, 462-473.	2.6	14
10	Characterization of a chitosan-based sustained release nanofertilizer formulation used as a soil conditioner while simultaneously improving biomass production of <i>Zea mays</i> L.. <i>Land Degradation and Development</i> , 2020, 31, 2734-2746.	1.8	59
11	Foliar Application of Seaweed Sap Enhances Growth, Yield and Quality of Maize in Eastern Himalayas. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2019, 89, 221-229.	0.4	11
12	Drought alleviatory potential of <i>Kappaphycus</i> seaweed extract and the role of the quaternary ammonium compounds as its constituents towards imparting drought tolerance in <i>Zea mays</i> L.. <i>Journal of Applied Phycology</i> , 2018, 30, 2001-2015.	1.5	34
13	Study of fluoride content in some commercial phosphate fertilizers. <i>Journal of Fluorine Chemistry</i> , 2018, 210, 149-155.	0.9	48
14	Seaweed extract as organic bio-stimulant improves productivity and quality of rice in eastern Himalayas. <i>Journal of Applied Phycology</i> , 2018, 30, 547-558.	1.5	78
15	Life cycle impact assessment of a seaweed product obtained from <i>Gracilaria edulis</i> – A potent plant biostimulant. <i>Journal of Cleaner Production</i> , 2018, 170, 1621-1627.	4.6	45
16	Differential growth, yield and biochemical responses of maize to the exogenous application of <i>Kappaphycus alvarezii</i> seaweed extract, at grain-filling stage under normal and drought conditions. <i>Algal Research</i> , 2018, 35, 236-244.	2.4	49
17	Can we not mitigate climate change using seaweed based biostimulant: A case study with sugarcane cultivation in India. <i>Journal of Cleaner Production</i> , 2018, 204, 992-1003.	4.6	27
18	Effect of seaweed sap as foliar spray on growth and yield of hybrid maize. <i>Journal of Plant Nutrition</i> , 2018, 41, 1851-1861.	0.9	37

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19	Sustainable agro-technology for enhancement of rice production in the red and lateritic soils using seaweed based biostimulants. <i>Journal of Cleaner Production</i> , 2017, 149, 968-975.	4.6	32
20	Salinity induced oxidative stress alters the physiological responses and improves the biofuel potential of green microalgae <i>Acutodesmus dimorphus</i> . <i>Bioresource Technology</i> , 2017, 244, 1376-1383.	4.8	122
21	Growth, yield and quality improvement of potato tubers through the application of seaweed sap derived from the marine alga <i>Kappaphycus alvarezii</i> . <i>Journal of Applied Phycology</i> , 2017, 29, 3253-3260.	1.5	38
22	Crop stage selection is vital to elicit optimal response of maize to seaweed bio-stimulant application. <i>Journal of Applied Phycology</i> , 2017, 29, 2135-2144.	1.5	26
23	Nitrogen starvation-induced cellular crosstalk of ROS-scavenging antioxidants and phytohormone enhanced the biofuel potential of green microalgae <i>Acutodesmus dimorphus</i> . <i>Biotechnology for Biofuels</i> , 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. <i>Frontiers in Plant Science</i> , 2017, 8, 1541.	1.7	13
26	Molecular characterization of genetic and epigenetic divergence in selected <i>Jatropha curcas</i> L. germplasm using AFLP and MS-AFLP markers. <i>Plant Gene</i> , 2016, 8, 42-49.	1.4	7
27	Trait selection by path and principal component analysis in <i>Jatropha curcas</i> for enhanced oil yield. <i>Industrial Crops and Products</i> , 2016, 86, 173-179.	2.5	22
28	Applications of de-oiled microalgal biomass towards development of sustainable biorefinery. <i>Bioresource Technology</i> , 2016, 214, 787-796.	4.8	77
29	Non-isothermal pyrolysis of de-oiled microalgal biomass: Kinetics and evolved gas analysis. <i>Bioresource Technology</i> , 2016, 221, 251-261.	4.8	45
30	Microalgal biomass generation by phycoremediation of dairy industry wastewater: An integrated approach towards sustainable biofuel production. <i>Bioresource Technology</i> , 2016, 221, 455-460.	4.8	144
31	Green synthesis, characterization and antioxidant potential of silver nanoparticles biosynthesized from de-oiled biomass of thermotolerant oleaginous microalgae <i>Acutodesmus dimorphus</i> . <i>RSC Advances</i> , 2016, 6, 72269-72274.	1.7	81
32	Development of <i>Jatropha</i> hybrids with enhanced growth, yield and oil attributes suitable for semi-arid wastelands. <i>Agroforestry Systems</i> , 2016, 90, 541-553.	0.9	3
33	Hydrolysate of lipid extracted microalgal biomass residue: An algal growth promoter and enhancer. <i>Bioresource Technology</i> , 2016, 207, 197-204.	4.8	36
34	Microalgal carotenoids: Potential nutraceutical compounds with chemotaxonomic importance. <i>Algal Research</i> , 2016, 15, 24-31.	2.4	66
35	Genetic variability, character association and divergence studies in <i>Jatropha curcas</i> for improvement in oil yield. <i>Trees - Structure and Function</i> , 2016, 30, 1163-1180.	0.9	8
36	Growth medium standardization and thermotolerance study of the freshwater microalgae <i>Acutodesmus dimorphus</i> a potential strain for biofuel production. <i>Journal of Applied Phycology</i> , 2016, 28, 2687-2696.	1.5	18

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37	Insights into the role of seaweed <i>Kappaphycus alvarezii</i> sap towards phytohormone signalling and regulating defence responsive genes in <i>Lycopersicon esculentum</i> . <i>Journal of Applied Phycology</i> , 2016, 28, 2529-2537.	1.5	38
38	Sustainable enhancement in yield and quality of rain-fed maize through <i>Gracilaria edulis</i> and <i>Kappaphycus alvarezii</i> seaweed sap. <i>Journal of Applied Phycology</i> , 2016, 28, 2099-2112.	1.5	72
39	Effect of Nitrogen Management on Soil Microbial Community and Enzymatic Activities in <i>Jatropha curcas</i> L. Plantation. <i>Clean - Soil, Air, Water</i> , 2015, 43, 1058-1065.	0.7	9
40	Seaweed sap: a sustainable way to improve productivity of maize in North-East India. <i>International Journal of Environmental Studies</i> , 2015, 72, 305-315.	0.7	43
41	Long-term application of <i>Jatropha</i> press cake promotes seed yield by enhanced soil organic carbon accumulation, microbial biomass and enzymatic activities in soils of semi-arid tropical wastelands. <i>European Journal of Soil Biology</i> , 2015, 69, 57-65.	1.4	29
42	Life cycle impact assessment of seaweed based biostimulant production from onshore cultivated <i>Kappaphycus alvarezii</i> (Doty) Doty ex Silva. Is it environmentally sustainable?. <i>Algal Research</i> , 2015, 12, 513-521.	2.4	61
43	Biofuel potential of the newly isolated microalgae <i>Acutodesmus dimorphus</i> under temperature induced oxidative stress conditions. <i>Bioresource Technology</i> , 2015, 180, 162-171.	4.8	132
44	Salinity induced oxidative stress enhanced biofuel production potential of microalgae <i>Scenedesmus</i> sp. CCNM 1077. <i>Bioresource Technology</i> , 2015, 189, 341-348.	4.8	264
45	Soil microbial diversity shift as affected by conversion of shallow and rocky wastelands to <i>Jatropha curcas</i> L. plantation. <i>International Journal of Environmental Studies</i> , 2015, 72, 631-649.	0.7	0
46	Elimination of gibberellin from <i>Kappaphycus alvarezii</i> seaweed sap foliar spray enhances corn stover production without compromising the grain yield advantage. <i>Plant Growth Regulation</i> , 2015, 75, 657-666.	1.8	55
47	Lipid Extracted Microalgal Biomass Residue as a Fertilizer Substitute for <i>Zea mays</i> L. <i>Frontiers in Plant Science</i> , 2015, 6, 1266.	1.7	49
48	Effect of seaweed saps on growth and yield improvement of transplanted rice in old alluvial soil of West Bengal. <i>Bangladesh Journal of Botany</i> , 2014, 43, 53-58.	0.2	34
49	DNA methylation and methylation polymorphism in ecotypes of <i>Jatropha curcas</i> L. using methylation-sensitive AFLP markers. <i>Molecular Biology Reports</i> , 2014, 41, 8261-8271.	1.0	6
50	Observations on ecosystem services in <i>Jatropha curcas</i> plantations established in degraded lands in India. <i>International Journal of Environmental Studies</i> , 2014, 71, 209-214.	0.7	10
51	Biosorption of Methylene Blue by De-Oiled Algal Biomass: Equilibrium, Kinetics and Artificial Neural Network Modelling. <i>PLoS ONE</i> , 2014, 9, e109545.	1.1	60
52	Fuel intermediates, agricultural nutrients and pure water from <i>Kappaphycus alvarezii</i> seaweed. <i>RSC Advances</i> , 2013, 3, 17989.	1.7	43
53	Bioaccumulation of nutrient elements from fly ash-amended soil in <i>Jatropha curcas</i> L.: a biofuel crop. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 6705-6712.	1.3	16
54	Genetic Improvement in <i>Jatropha curcas</i> 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.	1.0	26
57	Diminution of economic yield as affected by pruning and chemical manipulation of Jatropha curcas L.. Biomass and Bioenergy, 2011, 35, 1021-1029.	2.9	34
58	Paclobutrazol Arrests Vegetative Growth and Unveils Unexpressed Yield Potential of Jatropha curcas. Journal of Plant Growth Regulation, 2010, 29, 307-315.	2.8	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.	1.2	261
60	Soil Characteristics and Mineral Nutrient in Wild Jatropha Population of India. Communications in Soil Science and Plant Analysis, 2008, 39, 1476-1485.	0.6	15
61	Prospects for jatropha methyl ester (biodiesel) in India. International Journal of Environmental Studies, 2007, 64, 659-674.	0.7	97