Manoranjan Nayak

List of Publications by Year
in descending order

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		623574	642610
23	869	14	23
papers	citations	h-index	g-index

23	23	23	941
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Performance evaluation of microalgae for concomitant wastewater bioremediation, CO2 biofixation and lipid biosynthesis for biodiesel application. Algal Research, 2016, 16, 216-223.	2.4	183
2	Artificial intelligence driven process optimization for cleaner production of biomass with co-valorization of wastewater and flue gas in an algal biorefinery. Journal of Cleaner Production, 2018, 201, 1092-1100.	4.6	81
3	Enhanced carbon utilization efficiency and FAME production of Chlorella sp. HS2 through combined supplementation of bicarbonate and carbon dioxide. Energy Conversion and Management, 2018, 156, 45-52.	4.4	73
4	Exploration of two-stage cultivation strategies using nitrogen starvation to maximize the lipid productivity in Chlorella sp. HS2. Bioresource Technology, 2019, 276, 110-118.	4.8	71
5	A review on co-culturing of microalgae: A greener strategy towards sustainable biofuels production. Science of the Total Environment, 2022, 802, 149765.	3.9	63
6	Strategic valorization of de-oiled microalgal biomass waste as biofertilizer for sustainable and improved agriculture of rice (Oryza sativa L.) crop. Science of the Total Environment, 2019, 682, 475-484.	3.9	61
7	Sustainable valorization of flue gas CO₂and wastewater for the production of microalgal biomass as a biofuel feedstock in closed and open reactor systems. RSC Advances, 2016, 6, 91111-91120.	1.7	50
8	Microalgae of Odisha Coast as a Potential Source for Biodiesel Production. World Environment, 2012, 2, 12-17.	0.4	43
9	Maximizing Biomass Productivity and CO2 Biofixation of Microalga, Scenedesmus sp. by Using Sodium Hydroxide. Journal of Microbiology and Biotechnology, 2013, 23, 1260-1268.	0.9	39
10	Performance evaluation of different cationic flocculants through pH modulation for efficient harvesting of Chlorella sp. HS2 and their impact on water reusability. Renewable Energy, 2019, 136, 819-827.	4.3	27
11	Enhanced biodegradation of total petroleum hydrocarbons by implementing a novel two-step bioaugmentation strategy using indigenous bacterial consortium. Journal of Environmental Management, 2021, 292, 112746.	3.8	27
12	Screening of Fresh Water Microalgae from Eastern Region of India for Sustainable Biodiesel Production. International Journal of Green Energy, 2011, 8, 669-683.	2.1	25
13	Cultivation of freshwater microalga <i>Scenedesmus</i> sp. using a low-cost inorganic fertilizer for enhanced biomass and lipid yield. Journal of General and Applied Microbiology, 2016, 62, 7-13.	0.4	20
14	Efficient microalgae harvesting mediated by polysaccharides interaction with residual calcium and phosphate in the growth medium. Journal of Cleaner Production, 2019, 234, 150-156.	4.6	16
15	Strategic implementation of integrated bioaugmentation and biostimulation for efficient mitigation of petroleum hydrocarbon pollutants from terrestrial and aquatic environment. Marine Pollution Bulletin, 2022, 177, 113492.	2.3	16
16	Directed evolution of Chlorella sp. HS2 towards enhanced lipid accumulation by ethyl methanesulfonate mutagenesis in conjunction with fluorescence-activated cell sorting based screening. Fuel, 2022, 316, 123410.	3.4	13
17	Recent Inventions and Trends in Algal Biofuels Research. Recent Patents on Biotechnology, 2016, 10, 30-42.	0.4	12
18	Strategic implementation of phosphorus repletion strategy in continuous two-stage cultivation of Chlorella sp. HS2: Evaluation for biofuel applications. Journal of Environmental Management, 2020, 271, 111041.	3.8	12

#	Article	IF	Citations
19	Bio-inspired CO2 capture and utilization by microalgae for bioenergy feedstock production: A greener approach for environmental protection. Bioresource Technology Reports, 2022, 19, 101116.	1.5	11
20	Efficient microalgae removal from aqueous medium through auto-flocculation: investigating growth-dependent role of organic matter. Environmental Science and Pollution Research, 2019, 26, 27396-27406.	2.7	10
21	Hydrodynamic cavitation for bacterial disinfection and medium recycling for sustainable Ettlia sp. cultivation. Journal of Environmental Chemical Engineering, 2021, 9, 105411.	3.3	8
22	Survey and Documentation of Brackish Water Algal Diversity from East Coast Region of Odisha, India. World Environment, 2012, 1, 20-23.	0.4	4
23	Microalgae as an Effective Recovery Agent for Vanadium in Aquatic Environment. Energies, 2022, 15, 4467.	1.6	4