

Neha Arora

List of Publications by Year in descending order

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51
papers

1,906
citations

236925

25
h-index

265206

42
g-index

53
all docs

53
docs citations

53
times ranked

1953
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable biodiesel production from oleaginous yeasts utilizing hydrolysates of various non-edible lignocellulosic biomasses. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 62, 836-855.	16.4	180
2	Assessment of fuel properties on the basis of fatty acid profiles of oleaginous yeast for potential biodiesel production. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 604-616.	16.4	164
3	Biodiesel production from non-edible lignocellulosic biomass of <i>Cassia fistula</i> L. fruit pulp using oleaginous yeast <i>Rhodospiridium kratochvilovae</i> HIMPA1. <i>Bioresource Technology</i> , 2015, 197, 91-98.	9.6	107
4	Synergistic dynamics of nitrogen and phosphorous influences lipid productivity in <i>Chlorella minutissima</i> for biodiesel production. <i>Bioresource Technology</i> , 2016, 213, 79-87.	9.6	102
5	Biological treatment of pulp and paper industry effluent by oleaginous yeast integrated with production of biodiesel as sustainable transportation fuel. <i>Journal of Cleaner Production</i> , 2017, 142, 2858-2864.	9.3	79
6	Acoustic cavitation induced synthesis of zirconium impregnated activated carbon for effective fluoride scavenging from water by adsorption. <i>Ultrasonics Sonochemistry</i> , 2018, 45, 65-77.	8.2	70
7	A hybrid approach integrating arsenic detoxification with biodiesel production using oleaginous microalgae. <i>Algal Research</i> , 2017, 24, 29-39.	4.6	69
8	Leveraging algal omics to reveal potential targets for augmenting TAG accumulation. <i>Biotechnology Advances</i> , 2018, 36, 1274-1292.	11.7	65
9	Bioremediation of domestic and industrial wastewaters integrated with enhanced biodiesel production using novel oleaginous microalgae. <i>Environmental Science and Pollution Research</i> , 2016, 23, 20997-21007.	5.3	57
10	Antifungal and Anti-Biofilm Activity of Essential Oil Active Components against <i>Cryptococcus neoformans</i> and <i>Cryptococcus laurentii</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 2161.	3.5	57
11	Co-culturing of oleaginous microalgae and yeast: paradigm shift towards enhanced lipid productivity. <i>Environmental Science and Pollution Research</i> , 2019, 26, 16952-16973.	5.3	57
12	Biodegradation of phenol via meta cleavage pathway triggers de novo TAG biosynthesis pathway in oleaginous yeast. <i>Journal of Hazardous Materials</i> , 2017, 340, 47-56.	12.4	56
13	Small-scale phyco-mitigation of raw urban wastewater integrated with biodiesel production and its utilization for aquaculture. <i>Bioresource Technology</i> , 2020, 297, 122489.	9.6	51
14	NMR-Based Metabolomic Approach To Elucidate the Differential Cellular Responses during Mitigation of Arsenic(III, V) in a Green Microalga. <i>ACS Omega</i> , 2018, 3, 11847-11856.	3.5	50
15	Harnessing the Power of Mutagenesis and Adaptive Laboratory Evolution for High Lipid Production by Oleaginous Microalgae and Yeasts. <i>Sustainability</i> , 2020, 12, 5125.	3.2	50
16	Boosting TAG Accumulation with Improved Biodiesel Production from Novel Oleaginous Microalgae <i>Scenedesmus</i> sp. IITRIND2 Utilizing Waste Sugarcane Bagasse Aqueous Extract (SBAE). <i>Applied Biochemistry and Biotechnology</i> , 2016, 180, 109-121.	2.9	47
17	A novel rapid ultrasonication-microwave treatment for total lipid extraction from wet oleaginous yeast biomass for sustainable biodiesel production. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 504-516.	8.2	47
18	Insights into the Enhanced Lipid Production Characteristics of a Fresh Water Microalga under High Salinity Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7413-7421.	3.7	43

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19	Microalgae fuel cell for wastewater treatment: Recent advances and challenges. <i>Journal of Water Process Engineering</i> , 2020, 38, 101549.	5.6	43
20	Delineating the molecular responses of a halotolerant microalga using integrated omics approach to identify genetic engineering targets for enhanced TAG production. <i>Biotechnology for Biofuels</i> , 2019, 12, 2.	6.2	42
21	Novel bio-based solid acid catalyst derived from waste yeast residue for biodiesel production. <i>Renewable Energy</i> , 2020, 159, 127-139.	8.9	38
22	Augmented lipid accumulation in ethyl methyl sulphonate mutants of oleaginous microalga for biodiesel production. <i>Bioresource Technology</i> , 2017, 242, 121-127.	9.6	34
23	Elucidating the unique physiological responses of halotolerant <i>Scenedesmus</i> sp. cultivated in sea water for biofuel production. <i>Algal Research</i> , 2019, 37, 260-268.	4.6	34
24	Insights into the physiology of <i>Chlorella vulgaris</i> cultivated in sweet sorghum bagasse hydrolysate for sustainable algal biomass and lipid production. <i>Scientific Reports</i> , 2021, 11, 6779.	3.3	34
25	Delineating the Biofilm Inhibition Mechanisms of Phenolic and Aldehydic Terpenes against <i>Cryptococcus neoformans</i> . <i>ACS Omega</i> , 2019, 4, 17634-17648.	3.5	33
26	Chemistry and Biology of Farnesol and its Derivatives: Quorum Sensing Molecules with Immense Therapeutic Potential. <i>Current Topics in Medicinal Chemistry</i> , 2019, 18, 1937-1954.	2.1	27
27	Microalgae strain improvement strategies: random mutagenesis and adaptive laboratory evolution. <i>Trends in Plant Science</i> , 2021, 26, 1199-1200.	8.8	24
28	Pretreated algal bloom as a substantial nutrient source for microalgae cultivation for biodiesel production. <i>Bioresource Technology</i> , 2017, 242, 152-160.	9.6	21
29	Beneficial use of the aqueous phase generated during hydrothermal carbonization of algae as nutrient source for algae cultivation. <i>Algal Research</i> , 2021, 60, 102485.	4.6	19
30	Lipid-extracted algae as a source of biomaterials for algae biorefineries. <i>Algal Research</i> , 2021, 57, 102354.	4.6	18
31	Utilization of stagnant non-potable pond water for cultivating oleaginous microalga <i>Chlorella minutissima</i> for biodiesel production. <i>Renewable Energy</i> , 2018, 126, 30-37.	8.9	17
32	Elucidating the bioremediation mechanism of <i>Scenedesmus</i> sp. IITRIND2 under cadmium stress. <i>Chemosphere</i> , 2021, 283, 131196.	8.2	17
33	Different Cell Disruption and Lipid Extraction Methods from Microalgae for Biodiesel Production. , 2019, , 265-292.		16
34	Amaranth seeds (<i>Amaranthus palmeri</i> L.) as novel feedstock for biodiesel production by oleaginous yeast. <i>Environmental Science and Pollution Research</i> , 2018, 25, 353-362.	5.3	14
35	Assessing the robust growth and lipid-accumulating characteristics of <i>Scenedesmus</i> sp. for biodiesel production. <i>Environmental Science and Pollution Research</i> , 2020, 27, 27449-27456.	5.3	14
36	Deciphering metabolic alterations in algae cultivated in spent media as means for enhancing algal biorefinery sustainability. <i>Bioresource Technology</i> , 2021, 342, 125890.	9.6	14

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37	Microalgae. , 2019, , 97-128.		13
38	Recycled de-Oiled Algal Biomass Extract as a Feedstock for Boosting Biodiesel Production from <i>Chlorella minutissima</i> . Applied Biochemistry and Biotechnology, 2016, 180, 1534-1541.	2.9	11
39	Microwave-assisted pretreatment of harmful algal blooms for microbial oil-centered biorefinery approach. Biomass Conversion and Biorefinery, 2022, 12, 3097-3105.	4.6	11
40	The Prospects of Agricultural and Food Residue Hydrolysates for Sustainable Production of Algal Products. Energies, 2020, 13, 6427.	3.1	11
41	Unraveling metabolic alterations in <i>Chlorella vulgaris</i> cultivated on renewable sugars using time resolved multi-omics. Science of the Total Environment, 2021, 800, 149504.	8.0	9
42	Physiological insights into enhanced lipid accumulation and temperature tolerance by <i>Tetraselmis suecica</i> ultraviolet mutants. Science of the Total Environment, 2022, 839, 156361.	8.0	7
43	Dissecting Enhanced Carbohydrate and Pigment Productivity in Mutants of <i>Nannochloropsis oculata</i> Using Metabolomics and Lipidomics. Journal of Agricultural and Food Chemistry, 2022, 70, 8338-8350.	5.2	7
44	Synthesis and characterization of polyether urethane coatings for preventing implant infection. Composite Interfaces, 2014, 21, 51-58.	2.3	4
45	Algae as a Budding Tool for Mitigation of Arsenic from Aquatic Systems. , 2018, , 269-297.		4
46	Antineoplastic and antioxidant potential of phycofabricated silver nanoparticles using microalgae <i>Chlorella minutissima</i> . IET Nanobiotechnology, 2017, 11, 827-834.	3.8	3
47	¹ H NMR-based metabolomics and lipidomics of microalgae. Trends in Plant Science, 2021, 26, 984-985.	8.8	3
48	An Integrated Approach of Wastewater Mitigation and Biomass Production for Biodiesel Using <i>Scenedesmus</i> sp.. , 2019, , 467-494.		2
49	Advanced Gene Technology and Synthetic Biology Approaches to Custom Design Microalgae for Biodiesel Production. , 2019, , 147-175.		2
50	Antineoplastic and Antimicrobial Potential of Novel Phytofabricated Silver Nanoparticles from <i>Pterospermum acerifolium</i> Leaf Extract. Nanoscience and Nanotechnology - Asia, 2018, 8, 297-308.	0.7	1
51	Life cycle assessment of photosynthetic microalgae for sustainable biodiesel production. , 2021, , 369-387.		0