

Abhishek Guldhe

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

3,426
citations

159358

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docs citations

46
times ranked

3451
citing authors

#	ARTICLE	IF	CITATIONS
1	Microalgae as multi-functional options in modern agriculture: current trends, prospects and challenges. <i>Biotechnology Advances</i> , 2018, 36, 1255-1273.	6.0	254
2	Towards a sustainable approach for development of biodiesel from plant and microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 29, 216-245.	8.2	241
3	Advances in synthesis of biodiesel via enzyme catalysis: Novel and sustainable approaches. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 1447-1464.	8.2	236
4	Trends and novel strategies for enhancing lipid accumulation and quality in microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 1-16.	8.2	227
5	Microalgal cultivation using aquaculture wastewater: Integrated biomass generation and nutrient remediation. <i>Algal Research</i> , 2017, 21, 169-177.	2.4	208
6	Efficacy of drying and cell disruption techniques on lipid recovery from microalgae for biodiesel production. <i>Fuel</i> , 2014, 128, 46-52.	3.4	190
7	Investigation of combined effect of nitrogen, phosphorus and iron on lipid productivity of microalgae <i>Ankistrodesmus falcatus</i> KJ671624 using response surface methodology. <i>Biochemical Engineering Journal</i> , 2015, 94, 22-29.	1.8	169
8	The optimization of biomass and lipid yields of <i>Chlorella sorokiniana</i> when using wastewater supplemented with different nitrogen sources. <i>Bioresource Technology</i> , 2014, 168, 127-135.	4.8	157
9	Heterotrophic cultivation of microalgae using aquaculture wastewater: A biorefinery concept for biomass production and nutrient remediation. <i>Ecological Engineering</i> , 2017, 99, 47-53.	1.6	151
10	Biodiesel synthesis from microalgal lipids using tungstated zirconia as a heterogeneous acid catalyst and its comparison with homogeneous acid and enzyme catalysts. <i>Fuel</i> , 2017, 187, 180-188.	3.4	148
11	Prospects, recent advancements and challenges of different wastewater streams for microalgal cultivation. <i>Journal of Environmental Management</i> , 2017, 203, 299-315.	3.8	132
12	Conversion of microalgal lipids to biodiesel using chromium-aluminum mixed oxide as a heterogeneous solid acid catalyst. <i>Renewable Energy</i> , 2017, 105, 175-182.	4.3	99
13	Biodiesel synthesis from microalgae using immobilized <i>Aspergillus niger</i> whole cell lipase biocatalyst. <i>Renewable Energy</i> , 2016, 85, 1002-1010.	4.3	87
14	Lipid extracted algae as a source for protein and reduced sugar: A step closer to the biorefinery. <i>Bioresource Technology</i> , 2015, 179, 559-564.	4.8	79
15	Synthesis of biodiesel from <i>Scenedesmus</i> sp. by microwave and ultrasound assisted in situ transesterification using tungstated zirconia as a solid acid catalyst. <i>Chemical Engineering Research and Design</i> , 2014, 92, 1503-1511.	2.7	74
16	Evaluating the potential of cytokinins for biomass and lipid enhancement in microalga <i>Acutodesmus obliquus</i> under nitrogen stress. <i>Energy Conversion and Management</i> , 2017, 140, 14-23.	4.4	74
17	Assessment of municipal wastewaters at various stages of treatment process as potential growth media for <i>Chlorella sorokiniana</i> under different modes of cultivation. <i>Bioresource Technology</i> , 2017, 227, 82-92.	4.8	73
18	Improving the feasibility of aquaculture feed by using microalgae. <i>Environmental Science and Pollution Research</i> , 2021, 28, 43234-43257.	2.7	69

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19	Electrochemical harvesting process for microalgae by using nonsacrificial carbon electrode: A sustainable approach for biodiesel production. <i>Chemical Engineering Journal</i> , 2014, 255, 327-333.	6.6	67
20	Biocatalytic conversion of lipids from microalgae <i>Scenedesmus obliquus</i> to biodiesel using <i>Pseudomonas fluorescens</i> lipase. <i>Fuel</i> , 2015, 147, 117-124.	3.4	60
21	An innovative electrochemical process to alleviate the challenges for harvesting of small size microalgae by using non-sacrificial carbon electrodes. <i>Algal Research</i> , 2016, 19, 292-298.	2.4	58
22	Wastewater to biofuels: Comprehensive evaluation of various flocculants on biochemical composition and yield of microalgae. <i>Ecological Engineering</i> , 2018, 117, 62-68.	1.6	54
23	Combined effect of exogenous phytohormones on biomass and lipid production in <i>Acutodesmus obliquus</i> under nitrogen limitation. <i>Energy Conversion and Management</i> , 2018, 168, 522-528.	4.4	53
24	Combined metals and EDTA control: An integrated and scalable lipid enhancement strategy to alleviate biomass constraints in microalgae under nitrogen limited conditions. <i>Energy Conversion and Management</i> , 2016, 114, 100-109.	4.4	52
25	Techno-economic feasibility of algal aquaculture via fish and biodiesel production pathways: A commercial-scale application. <i>Science of the Total Environment</i> , 2020, 704, 135259.	3.9	46
26	Biodiesel synthesis from wastewater grown microalgal feedstock using enzymatic conversion: A greener approach. <i>Fuel</i> , 2019, 237, 1112-1118.	3.4	42
27	Design and development of polyamine polymer for harvesting microalgae for biofuels production. <i>Energy Conversion and Management</i> , 2014, 85, 537-544.	4.4	41
28	Effect of phytohormones from different classes on gene expression of <i>Chlorella sorokiniana</i> under nitrogen limitation for enhanced biomass and lipid production. <i>Algal Research</i> , 2019, 40, 101518.	2.4	40
29	Evaluation of operating conditions for sustainable harvesting of microalgal biomass applying electrochemical method using non sacrificial electrodes. <i>Bioresource Technology</i> , 2015, 176, 1-7.	4.8	39
30	ACCase and rbcL gene expression as a function of nutrient and metal stress for enhancing lipid productivity in <i>Chlorella sorokiniana</i> . <i>Energy Conversion and Management</i> , 2017, 148, 809-819.	4.4	38
31	Evaluation of various solvent systems for lipid extraction from wet microalgal biomass and its effects on primary metabolites of lipid-extracted biomass. <i>Environmental Science and Pollution Research</i> , 2017, 24, 15299-15307.	2.7	25
32	Solar irradiation assisted synthesis of biodiesel from waste cooking oil using calcium oxide derived from chicken eggshell. <i>Fuel</i> , 2020, 273, 117778.	3.4	22
33	Evaluation of waste activated sludge as a potential nutrient source for cultivation of <i>Chlorella sorokiniana</i> . <i>Algal Research</i> , 2017, 28, 108-117.	2.4	18
34	Aquatic weed as a biorefinery resource for biofuels and value-added products: Challenges and recent advancements. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100235.	2.1	18
35	Microalgae Isolation and Basic Culturing Techniques. , 2015, , 43-54.		15
36	Sustainable Production of Biofuels from Microalgae Using a Biorefinery Approach. , 2015, , 115-128.		15

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37	Harvesting and pretreatment techniques of aquatic macrophytes and macroalgae for production of biofuels. <i>Environmental Sustainability</i> , 2021, 4, 299-316.	1.4	12
38	Bioenergy: A Sustainable Approach for Cleaner Environment. , 2017, , 47-62.		11
39	Assessment of Potential of <i>Croton gratissimus</i> Oil for Macroscale Production of Biodiesel Based on Thermophysical Properties. <i>Energy & Fuels</i> , 2014, 28, 7576-7581.	2.5	8
40	Valorization of poultry litter using <i>Acutodesmus obliquus</i> and its integrated application for lipids and fertilizer production. <i>Science of the Total Environment</i> , 2021, 796, 149018.	3.9	8
41	Use of microalgal lipids and carbohydrates for the synthesis of carbon dots via hydrothermal microwave treatment. <i>Inorganic Chemistry Communication</i> , 2021, 134, 109021.	1.8	8
42	Extraction and Conversion of Microalgal Lipids. <i>Green Energy and Technology</i> , 2016, , 91-110.	0.4	4
43	Carbon Dioxide Sequestration by Microalgae: Biorefinery Approach for Clean Energy and Environment. , 2015, , 147-154.		2
44	Catalytic Conversion of Microalgal Lipids to Biodiesel: Overview and Recent Advances. , 2017, , 315-329.		1
45	Biodiesel and an overview of waste utilization at the various production stages. , 2022, , 1-16.		1
46	Editorial: Thematic issue "Bio-based materials for biorefineries: innovative processes and concepts". <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	0