Abhishek Guldhe

List of Publications by Year
in descending order

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46	3,426	159358	301761
papers	citations	30 h-index	39 g-index

46	46	46	3451
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biodiesel and an overview of waste utilization at the various production stages. , 2022, , 1-16.		1
2	Improving the feasibility of aquaculture feed by using microalgae. Environmental Science and Pollution Research, 2021, 28, 43234-43257.	2.7	69
3	Harvesting and pretreatment techniques of aquatic macrophytes and macroalgae for production of biofuels. Environmental Sustainability, 2021, 4, 299-316.	1.4	12
4	Aquatic weed as a biorefinery resource for biofuels and value-added products: Challenges and recent advancements. Cleaner Engineering and Technology, 2021, 4, 100235.	2.1	18
5	Valorization of poultry litter using Acutodesmus obliquus and its integrated application for lipids and fertilizer production. Science of the Total Environment, 2021, 796, 149018.	3.9	8
6	Use of microalgal lipids and carbohydrates for the synthesis of carbon dots via hydrothermal microwave treatment. Inorganic Chemistry Communication, 2021, 134, 109021.	1.8	8
7	Techno-economic feasibility of algal aquaculture via fish and biodiesel production pathways: A commercial-scale application. Science of the Total Environment, 2020, 704, 135259.	3.9	46
8	Solar irradiation assisted synthesis of biodiesel from waste cooking oil using calcium oxide derived from chicken eggshell. Fuel, 2020, 273, 117778.	3.4	22
9	Effect of phytohormones from different classes on gene expression of Chlorella sorokiniana under nitrogen limitation for enhanced biomass and lipid production. Algal Research, 2019, 40, 101518.	2.4	40
10	Biodiesel synthesis from wastewater grown microalgal feedstock using enzymatic conversion: A greener approach. Fuel, 2019, 237, 1112-1118.	3.4	42
11	Microalgae as multi-functional options in modern agriculture: current trends, prospects and challenges. Biotechnology Advances, 2018, 36, 1255-1273.	6.0	254
12	Wastewater to biofuels: Comprehensive evaluation of various flocculants on biochemical composition and yield of microalgae. Ecological Engineering, 2018, 117, 62-68.	1.6	54
13	Combined effect of exogenous phytohormones on biomass and lipid production in Acutodesmus obliquus under nitrogen limitation. Energy Conversion and Management, 2018, 168, 522-528.	4.4	53
14	Conversion of microalgal lipids to biodiesel using chromium-aluminum mixed oxide as a heterogeneous solid acid catalyst. Renewable Energy, 2017, 105, 175-182.	4.3	99
15	Evaluating the potential of cytokinins for biomass and lipid enhancement in microalga Acutodesmus obliquus under nitrogen stress. Energy Conversion and Management, 2017, 140, 14-23.	4.4	74
16	Evaluation of various solvent systems for lipid extraction from wet microalgal biomass and its effects on primary metabolites of lipid-extracted biomass. Environmental Science and Pollution Research, 2017, 24, 15299-15307.	2.7	25
17	Bioenergy: A Sustainable Approach for Cleaner Environment. , 2017, , 47-62.		11
18	Microalgal cultivation using aquaculture wastewater: Integrated biomass generation and nutrient remediation. Algal Research, 2017, 21, 169-177.	2.4	208

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19	Assessment of municipal wastewaters at various stages of treatment process as potential growth media for Chlorella sorokiniana under different modes of cultivation. Bioresource Technology, 2017, 227, 82-92.	4.8	73
20	Prospects, recent advancements and challenges of different wastewater streams for microalgal cultivation. Journal of Environmental Management, 2017, 203, 299-315.	3.8	132
21	Evaluation of waste activated sludge as a potential nutrient source for cultivation of Chlorella sorokiniana. Algal Research, 2017, 28, 108-117.	2.4	18
22	ACCase and rbcL gene expression as a function of nutrient and metal stress for enhancing lipid productivity in Chlorella sorokiniana. Energy Conversion and Management, 2017, 148, 809-819.	4.4	38
23	Heterotrophic cultivation of microalgae using aquaculture wastewater: A biorefinery concept for biomass production and nutrient remediation. Ecological Engineering, 2017, 99, 47-53.	1.6	151
24	Biodiesel synthesis from microalgal lipids using tungstated zirconia as a heterogeneous acid catalyst and its comparison with homogeneous acid and enzyme catalysts. Fuel, 2017, 187, 180-188.	3.4	148
25	Catalytic Conversion of Microalgal Lipids to Biodiesel: Overview and Recent Advances. , 2017, , 315-329.		1
26	Combined metals and EDTA control: An integrated and scalable lipid enhancement strategy to alleviate biomass constraints in microalgae under nitrogen limited conditions. Energy Conversion and Management, 2016, 114, 100-109.	4.4	52
27	Trends and novel strategies for enhancing lipid accumulation and quality in microalgae. Renewable and Sustainable Energy Reviews, 2016, 55, 1-16.	8.2	227
28	An innovative electrochemical process to alleviate the challenges for harvesting of small size microalgae by using non-sacrificial carbon electrodes. Algal Research, 2016, 19, 292-298.	2.4	58
29	Biodiesel synthesis from microalgae using immobilized Aspergillus niger whole cell lipase biocatalyst. Renewable Energy, 2016, 85, 1002-1010.	4.3	87
30	Extraction and Conversion of Microalgal Lipids. Green Energy and Technology, 2016, , 91-110.	0.4	4
31	Microalgae Isolation and Basic CulturingÂTechniques. , 2015, , 43-54.		15
32	Carbon Dioxide Sequestration by Microalgae: Biorefinery Approach for Clean Energy and Environment. , 2015, , 147-154.		2
33	Sustainable Production of Biofuels from Microalgae Using a Biorefinary Approach. , 2015, , 115-128.		15
34	Biocatalytic conversion of lipids from microalgae Scenedesmus obliquus to biodiesel using Pseudomonas fluorescens lipase. Fuel, 2015, 147, 117-124.	3.4	60
35	Lipid extracted algae as a source for protein and reduced sugar: A step closer to the biorefinery. Bioresource Technology, 2015, 179, 559-564.	4.8	79
36	Evaluation of operating conditions for sustainable harvesting of microalgal biomass applying electrochemical method using non sacrificial electrodes. Bioresource Technology, 2015, 176, 1-7.	4.8	39

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37	Investigation of combined effect of nitrogen, phosphorus and iron on lipid productivity of microalgae Ankistrodesmus falcatus KJ671624 using response surface methodology. Biochemical Engineering Journal, 2015, 94, 22-29.	1.8	169
38	Advances in synthesis of biodiesel via enzyme catalysis: Novel and sustainable approaches. Renewable and Sustainable Energy Reviews, 2015, 41, 1447-1464.	8.2	236
39	Towards a sustainable approach for development of biodiesel from plant and microalgae. Renewable and Sustainable Energy Reviews, 2014, 29, 216-245.	8.2	241
40	Assessment of Potential of Croton gratissimus Oil for Macroscale Production of Biodiesel Based on Thermophysical Properties. Energy & Fuels, 2014, 28, 7576-7581.	2.5	8
41	Electrochemical harvesting process for microalgae by using nonsacrificial carbon electrode: A sustainable approach for biodiesel production. Chemical Engineering Journal, 2014, 255, 327-333.	6.6	67
42	Efficacy of drying and cell disruption techniques on lipid recovery from microalgae for biodiesel production. Fuel, 2014, 128, 46-52.	3.4	190
43	The optimization of biomass and lipid yields of Chlorella sorokiniana when using wastewater supplemented with different nitrogen sources. Bioresource Technology, 2014, 168, 127-135.	4.8	157
44	Design and development of polyamine polymer for harvesting microalgae for biofuels production. Energy Conversion and Management, 2014, 85, 537-544.	4.4	41
45	Synthesis of biodiesel from Scenedesmus sp. by microwave and ultrasound assisted in situ transesterification using tungstated zirconia as a solid acid catalyst. Chemical Engineering Research and Design, 2014, 92, 1503-1511.	2.7	74
46	Editorial: Thematic issue â€œBio-based materials for biorefineries: innovative processes and conceptsâ€• Biomass Conversion and Biorefinery, 0, , 1.	2.9	0