Andre Bellin Mariano

List of Publications by Year
in descending order

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76	797	623188	552369
papers	citations	14 h-index	26 g-index

77	77	77	1069
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on microalgae, a versatile source for sustainable energy and materials. International Journal of Energy Research, 2011, 35, 291-311.	2.2	217
2	Life cycle assessment of biomass production in microalgae compact photobioreactors. GCB Bioenergy, 2015, 7, 184-194.	2.5	48
3	Microalgae derived biomass and bioenergy production enhancement through biogas purification and wastewater treatment. Renewable Energy, 2021, 163, 1153-1165.	4.3	45
4	Extraction of Acutodesmus obliquus lipids using a mixture of ethanol and hexane as solvent. Biomass and Bioenergy, 2018, 108, 470-478.	2.9	43
5	Enhanced biohydrogen production from microalgae by diesel engine hazardous emissions fixation. International Journal of Hydrogen Energy, 2017, 42, 21463-21475.	3.8	29
6	Maximum microalgae biomass harvesting via flocculation in large scale photobioreactor cultivation. Canadian Journal of Chemical Engineering, 2016, 94, 304-309.	0.9	27
7	Enhanced microalgae biomass and lipid output for increased biodiesel productivity. Renewable Energy, 2021, 163, 138-145.	4.3	26
8	Production and characterization of an extracellular lipase from Candida guilliermondii. Brazilian Journal of Microbiology, 2014, 45, 1503-1511.	0.8	25
9	The microalgae derived hydrogen process in compact photobioreactors. International Journal of Hydrogen Energy, 2014, 39, 9588-9598.	3.8	25
10	Thermal treatment of clay-based ceramic membranes for microfiltration of Acutodesmus obliquus. Applied Clay Science, 2017, 150, 217-224.	2.6	25
11	Microalgae mixotrophic cultivation for Î²-galactosidase production. Journal of Applied Phycology, 2019, 31, 1597-1606.	1.5	24
12	A volume element model (VEM) for energy systems engineering. International Journal of Energy Research, 2015, 39, 46-74.	2.2	23
13	Production of methyl oleate with a lipase from an endophytic yeast isolated from castor leaves. Biocatalysis and Agricultural Biotechnology, 2012, 1, 295-300.	1.5	22
14	Environmental study of producing microalgal biomass and bioremediation of cattle manure effluents by microalgae cultivation. Clean Technologies and Environmental Policy, 2017, 19, 1745-1759.	2.1	18
15	Influence of thermally modified clays and inexpensive pore-generating and strength improving agents on the properties of porous ceramic membrane. Applied Clay Science, 2019, 168, 260-268.	2.6	17
16	Optimization of flocculation with tannin-based flocculant in the water reuse and lipidic production for the cultivation of Acutodesmus obliquus. Separation Science and Technology, 2017, 52, 936-942.	1.3	16
17	Functional characterization of mitochondria isolated from the ancient gymnosperm Araucaria angustifolia. Plant Science, 2008, 175, 701-705.	1.7	11
18	Mathematical model of the CO₂ solubilisation reaction rates developed for the study of photobioreactors. Canadian Journal of Chemical Engineering, 2014, 92, 787-795.	0.9	10

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19	Mass transfer modeling and maximization of hydrogen rhythmic production from genetically modified microalgae biomass. International Journal of Heat and Mass Transfer, 2016, 101, 1-9.	2.5	10
20	The experimental validation of a large-scale compact tubular microalgae photobioreactor model. International Journal of Energy Research, 2017, 41, 2221-2235.	2.2	10
21	A genset and mini-photobioreactor association for CO2 capturing, enhanced microalgae growth and multigeneration. Renewable Energy, 2018, 125, 985-994.	4.3	10
22	Effect of defatted microalgae (Scenedesmus obliquus) biomass inclusion on growth performance of Rhamdia quelen (Quoy & Gaimard, 1824). Journal of Applied Ichthyology, 2015, 31, 98-101.	0.3	9
23	Modeling microalgae derived hydrogen production enhancement via genetic modification. International Journal of Hydrogen Energy, 2016, 41, 8101-8110.	3.8	9
24	Environmental evaluation of flocculation efficiency in the separation of the microalgal biomass ofScenedesmus sp.cultivated in full-scale photobioreactors. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 938-945.	0.9	9
25	A new approach on astaxanthin extraction via acid hydrolysis of wet Haematococcus pluvialis biomass. Journal of Applied Phycology, 2021, 33, 2957-2966.	1.5	9
26	Sensitivities of the alternative respiratory components of potato tuber mitochondria to thiol reagents and Ca2+. Plant Physiology and Biochemistry, 2005, 43, 61-67.	2.8	7
27	Diets containing residual microalgae biomass protect fishes against oxidative stress and DNA damage. Journal of Applied Phycology, 2019, 31, 2933-2940.	1.5	6
28	Modeling, simulation, and optimization of a microalgae biomass drying process. International Journal of Energy Research, 2019, 43, 3421-3435.	2.2	6
29	PHAEODACTYLUM TRICORNUTUM MICROALGAE GROWTH RATE IN HETEROTROPHIC AND MIXOTROPHIC CONDITIONS. Revista De Engenharia TÃ©rmica, 2009, 8, 84.	0.0	5
30	Phenomenological modeling of Acutodesmus obliquus microalgae in situ transesterification. Biochemical Engineering Journal, 2020, 154, 107434.	1.8	5
31	Microalgae Culture Medium Recycling: Improved Production of Biomass and Lipids, Biodiesel Properties and Cost Reduction. Bioenergy Research, 2022, 15, 2076-2089.	2.2	5
32	Experimental validation of hindered settling models and flux theory applied in continuous flow process for harvesting Acutodesmus obliquus. Canadian Journal of Chemical Engineering, 2019, 97, 1903-1912.	0.9	4
33	A sustainable alkaline membrane fuel cell (SAMFC) stack characterization, model validation and optimal operation. International Journal of Hydrogen Energy, 2020, 45, 5723-5733.	3.8	4
34	Production of methyl oleate by direct addition of fermented solid Penicillium sumatrense and Aspergillus fumigatus. Renewable Energy, 2020, 162, 1132-1139.	4.3	4
35	Improved method for isolation of coupled mitochondria of Araucaria angustifolia (Bert.) O. Kuntze. Brazilian Archives of Biology and Technology, 2004, 47, 873-879.	0.5	4
36	Lumped intracellular dynamics: Mathematical modeling of the microalgae Tetradesmus obliquus cultivation under mixotrophic conditions with glycerol. Algal Research, 2021, 57, 102344.	2.4	3

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37	Changes in gene expression and biochemical composition of Haematococcus pluvialis grown under different light colors. Journal of Applied Phycology, 2022, 34, 729-743.	1.5	3
38	Microalgaeâ€Derived Green Diesel. Chemical Engineering and Technology, 2022, 45, 890-897.	0.9	3
39	A flocculation strategy for harvesting high lipid content microalgae biomass. , 2016, , .		2
40	Sustainable energy via biodiesel production from autotrophic and mixotrophic growth of the microalga Phaeodactylum tricornutum in compact photobioreactors. , 2016, , .		2
41	Sustainable maximum power extraction from urban solid waste incineration. , 2017, , .		2
42	COMPARAÃ‡ÃƒO ENTRE TRÃŠS BIOPROCESSOS PARA A PRODUÃ‡ÃƒO DE ENZIMAS PROTEOLÃTICAS UTILIZANDO RESÃDUOS AGROINDUSTRIAIS. Revista Brasileira De Tecnologia Agroindustrial, 2012, 6, .	0.1	2
43	Green Diesel From Microalgae. , 2019, , .		2
44	Effects of Flocculant Concentration and Temperature on the Membrane Separation Process in Microalgae. Chemical Engineering and Technology, 0, , .	0.9	2
45	Energy Recovery from Nuisance Algae Blooms and Residues. , 2022, , 329-345.		2
46	Modeling and simulation of the microalgae derived hydrogen process in compact photobioreactors. , 2013, , .		1
47	Stationary compression ignition internal combustion engines (CI-ICE) CO<inf>2</inf> capturing via microalgae culture using a mini-photobioreactor. , 2015, , .		1
48	Clean Energy From Municipal Solid Waste (MSW). , 2019, , .		1
49	AVALIAÃ‡ÃƒO DA EFICIÃŠNCIA DE FLOCULAÃ‡ÃƒO E AMBIENTAL DA RECUPERAÃ‡ÃƒO DA BIOMASSA DE MICROALGAS CULTIVADAS EM FOTOBIORREATORES COMPACTOS INDUSTRIAIS. Revista GestÃ£o & Sustentabilidade Ambiental, 2016, 5, 92.	0.1	1
50	Software para SimulaÃ§Ã£o de Crescimento de Microalgas em Fotobiorreatores Tubulares. , 0, , .		1
51	Fabrication and characterization of low cost ceramic membranes for microfiltration of Acutodesmus obliquus using modified clays. Revista Materia, 2019, 24, .	0.1	1
52	Modeling and Simulation of a Solid Waste Incineration Sustainable Energy System. , 2018, , .		0
53	Experimental Calibration of a Biohydrogen Production Estimation Model. , 2018, , .		0
54	ExtensÃ£o TecnolÃ³gica Inovadora para o combate ao COVID-19 atravÃ©s da Iniciativa Startup Experience da UFPR. ExtensÃ£o Em Foco, 2021, , .	0.0	0

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55	Energy analysis of microalgae biomass recovered from industrial photobioreactor. , 0, , .		0
56	Production and energetic analysis of microalgae biodiesel through saponification process. , 0, , .		0
57	ELECTRICITY GENERATION USING HOT FLUE GAS FROM URBAN SOLID WASTE INCINERATION. , 0, , .		0
58	PRODUÃ‡ÃƒO DE OLEATO DE METILA CATALISADO POR SÃ“LIDO FERMENTADO CONTENDO LIPASES FÃšNGICAS. , 0, , .		0
59	AvaliaÃ§Ã£o de diferentes mÃ©todos de extraÃ§Ã£o de Ã³leo de microalgas para aplicaÃ§Ã£o em biocombustÃveis. , 0, , .		0
60	Modelagem matemÃ¡tica da produÃ§Ã£o de biomassa de microalgas a partir do tratamento emissÃµes de um motor diesel. , 0, , .		0
61	MODELAGEM MATEMÃTICA DA SECAGEM DA BIOMASSA DE MICROALGAS. , 0, , .		0
62	COGENERATION: ELETRICITY AND MICROALGAE BIOMASS PRODUCTION.. , 0, , .		0
63	MICROALGAE BIOMASS LIPID EXTRACTION â€“ AN ENERGY AND COST ANALYSIS APPROACH OF PROCESS. , 2016, , .		0
64	PRODUÃ‡ÃƒO DE BIOCOMBUSTÃVEIS ATRAVÃ‰S DE SISTEMAS AUTOMATIZADOS DE CULTIVO CONTÃNUO DE MICROALGAS. , 0, , .		0
65	MODELING AND SIMULATION OF A SHELL AND TUBE HEAT EXCHANGER USED FOR REDUCING FLUE GAS TEMPERATURE FOR MICROALGAE MITIGATION. , 2017, , .		0
66	Modeling a genset emissions fixation column and microalgae growth enhancement in large scale photobioreactor. , 2017, , .		0
67	PHOTOBIOREACTOR INOCULATION WITH SWINE SEWAGE FOR MICROALGAE CULTIVATION. , 2017, , .		0
68	AplicaÃ§Ã£o de modelos de sedimentaÃ§Ã£o em batelada para sistema de floculaÃ§Ã£o-sedimentaÃ§Ã£o de microalgas Acutodesmus obliquus. , 2018, , .		0
69	QUANTIFICAÃ‡ÃƒO DE PROTEÃNA E CARBOIDRATOS TOTAIS NA MICROALGA Tetradesmus obliquus CULTIVADA EM CONDIÃ‡Ã•ES MIXOTRÃ“FICAS. , 0, , .		0
70	Experimental Calibration of a Biohydrogen Production Estimation Model. Journal of Verification, Validation and Uncertainty Quantification, 2019, 4, .	0.3	0
71	A Hybrid Absorption System With Generator Level Optical Control and Variable Flow Rate. , 2019, , .		0
72	Hydrogen and Compounds With Biological Activity From Microalgae. , 2019, , .		0

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73	THE EFFECT OF TEMPERATURE IN TETRADESMUS OBLIQUUS. Revista De Engenharia TÃ©rmica, 2020, 19, 03.	0.0	0
74	Electronic packaging cabinets simplified modeling, simulation, and experimental validation for systems engineering. Simulation, 0, , 003754972110699.	1.1	0
75	Estimativa das propriedades do biodiesel metÃlico produzido a partir da pupunha e aspectos biotecnolÃ³gicos. Revista Principia, 2022, 59, 41.	0.1	0
76	Microalgae biofuels: Engineering-scale process integration approaches. , 2022, , 249-267.		0