

N S Caetano

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

5,201
citations

20
h-index

72
g-index

105
ext. papers

5,970
ext. citations

4.3
avg, IF

6.2
L-index

#	Paper	IF	Citations
92	Life cycle energy of vehicles on lightweighting and alternative powertrain strategies A review. <i>Energy Reports</i> , 2022 , 8, 241-247	4.6	1
91	Life cycle energy and carbon analysis of a road-safety barrier produced using recycled tire rubber. <i>Energy Reports</i> , 2022 , 8, 270-276	4.6	
90	Increasing energy efficiency with a smart farm An economic evaluation. <i>Energy Reports</i> , 2022 , 8, 454-461	4.6	1
89	Life cycle assessment of bioethanol from corn stover from soil phytoremediation. <i>Energy Reports</i> , 2022 , 8, 468-474	4.6	2
88	Recyclable waste collection Increasing ecopoint filling capacity to reduce energy for transportation. <i>Energy Reports</i> , 2022 , 8, 430-436	4.6	1
87	Algae-based bioenergy production aligns with the Paris agreement goals as a carbon mitigation technology. <i>Energy Reports</i> , 2022 , 8, 482-488	4.6	0
86	Macro modeling of electricity price towards SDG7. <i>Energy Reports</i> , 2022 , 8, 614-622	4.6	0
85	Syngas production by bi-reforming of methane on a bimetallic Ni-ZnO doped zeolite 13X. <i>Fuel</i> , 2021 , 311, 122592	7.1	2
84	Microalgae Biomolecules: Extraction, Separation and Purification Methods. <i>Processes</i> , 2021 , 9, 10	2.9	17
83	Valorization of Agro-Industrial Residues: Bioprocessing of Animal Fats to Reduce Their Acidity. <i>Sustainability</i> , 2021 , 13, 10837	3.6	
82	Composition, cultivation and potential applications of <i>Chlorella zofingiensis</i> A comprehensive review. <i>Algal Research</i> , 2021 , 60, 102508	5	2
81	Sugarcane Bagasse Saccharification by Enzymatic Hydrolysis Using Endocellulase and β -glucosidase Immobilized on Different Supports. <i>Catalysts</i> , 2021 , 11, 340	4	8
80	Indoor Air Quality Improvement Using Nature-Based Solutions: Design Proposals to Greener Cities. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	2
79	Economic analysis of microalgae biodiesel production in a small-scale facility. <i>Energy Reports</i> , 2020 , 6, 325-332	4.6	29
78	Fat extraction from fleshings - optimization of operating conditions. <i>Energy Reports</i> , 2020 , 6, 381-390	4.6	1
77	Life cycle assessment of a renewable energy generation system with a vanadium redox flow battery in a NZEB household. <i>Energy Reports</i> , 2020 , 6, 87-94	4.6	8
76	Microalgae for biotechnological applications: Cultivation, harvesting and biomass processing. <i>Aquaculture</i> , 2020 , 528, 735562	4.4	51

75	Syngas production by bi-reforming methane on an Ni-K-promoted catalyst using hydrotalcites and filamentous carbon as a support material.. <i>RSC Advances</i> , 2020 , 10, 21158-21173	3.7	5
74	Comparison of different lipid extraction procedures applied to three microalgal species. <i>Energy Reports</i> , 2020 , 6, 477-482	4.6	11
73	Evaluation of Areca palm renewable options to replace disposable plastic containers using life cycle assessment methodology. <i>Energy Reports</i> , 2020 , 6, 80-86	4.6	11
72	Catalytic bi-reforming of methane for carbon dioxide ennoblement. <i>Energy Reports</i> , 2020 , 6, 74-79	4.6	8
71	A life cycle inventory of microalgae-based biofuels production in an industrial plant concept. <i>Energy Reports</i> , 2020 , 6, 397-402	4.6	11
70	Biotechnological potential of <i>Phaeodactylum tricornutum</i> for biorefinery processes. <i>Fuel</i> , 2020 , 268, 117357	7.1	23
69	ICEER2019@Aveiro: Energy and environment - challenges towards circular economy. <i>Energy Reports</i> , 2020 , 6, 1-14	4.6	2
68	Life cycle assessment of a vanadium flow battery. <i>Energy Reports</i> , 2020 , 6, 95-101	4.6	9
67	Environmental assessment of industrial production of microalgal biodiesel in central-south Chile. <i>Journal of Cleaner Production</i> , 2020 , 266, 121756	10.3	18
66	Teaching sustainable development in higher education 2020 ,		1
65	Acid pretreatment of sugarcane biomass to obtain hemicellulosic hydrolysisate rich in fermentable sugar. <i>Energy Reports</i> , 2020 , 6, 18-23	4.6	5
64	Enhancing extraction and purification of phycocyanin from <i>Arthrospira</i> sp. with lower energy consumption. <i>Energy Reports</i> , 2020 , 6, 312-318	4.6	10
63	Application of domestic greywater for irrigating agricultural products: A brief study. <i>Energy Reports</i> , 2020 , 6, 811-817	4.6	13
62	Decentralized electricity storage evaluation in the Portuguese context. <i>Electricity Journal</i> , 2020 , 33, 106822		4
61	Fish Oil Enzymatic Esterification for Acidity Reduction. <i>Waste and Biomass Valorization</i> , 2020 , 11, 1131-1141		1
60	Flocculation of <i>Arthrospira maxima</i> for improved harvesting. <i>Energy Reports</i> , 2020 , 6, 423-428	4.6	13
59	Ground-source energy systems for building heating and cooling [A case study. <i>Energy Reports</i> , 2020 , 6, 353-357	4.6	3
58	Influence of cultivation conditions on the bioenergy potential and bio-compounds of <i>Chlorella vulgaris</i> . <i>Energy Reports</i> , 2020 , 6, 378-384	4.6	8

57	Techno-economic assessment of a Synechocystis based biorefinery through process optimization. <i>Energy Reports</i> , 2020 , 6, 509-514	4.6	7
56	Biofixation of CO2 emissions from natural gas combined cycle power plant. <i>Energy Reports</i> , 2020 , 6, 140-146	4.6	7
55	Development of a decentralized monitoring system of domestic water consumption. <i>Energy Reports</i> , 2020 , 6, 856-861	4.6	2
54	Symbiotic Co-Culture of <i>Scenedesmus</i> sp. and <i>Azospirillum brasilense</i> on N-Deficient Media with Biomass Production for Biofuels. <i>Sustainability</i> , 2019 , 11, 707	3.6	19
53	Sustainability evaluation of a Portuguese Ferreiro Wine. <i>BIO Web of Conferences</i> , 2019 , 12, 03017	0.4	2
52	Analysis of Fossil Fuel Energy Consumption and Environmental Impacts in European Countries. <i>Energies</i> , 2019 , 12, 964	3.1	185
51	Sustainable development in higher education 2019 ,		1
50	Biodiesel Production Systems: Operation, Process Control and Troubleshooting. <i>Biofuel and Biorefinery Technologies</i> , 2019 , 27-56	1	1
49	Economic and environmental analysis of animal fats acidity reduction by enzymatic esterification. <i>Journal of Cleaner Production</i> , 2018 , 184, 481-489	10.3	9
48	Towards sustainable wine: Comparison of two Portuguese wines. <i>Journal of Cleaner Production</i> , 2018 , 183, 662-676	10.3	42
47	Bio-refinery approach for spent coffee grounds valorization. <i>Bioresource Technology</i> , 2018 , 247, 1077-1084	8.4	109
46	Potential of <i>Phaeodactylum tricornutum</i> for Biodiesel Production under Natural Conditions in Chile. <i>Energies</i> , 2018 , 11, 54	3.1	23
45	<i>Chlorella vulgaris</i> (SAG 211-12) biofilm formation capacity and proposal of a rotating flat plate photobioreactor for more sustainable biomass production. <i>Journal of Applied Phycology</i> , 2018 , 30, 887-899	3.2	19
44	ICEER2018@Prague: researching towards a sustainable future. <i>Energy Procedia</i> , 2018 , 153, 1-9	2.3	1
43	Water consumption monitoring system for public bathing facilities. <i>Energy Procedia</i> , 2018 , 153, 408-413	2.3	5
42	LCA of constructing an industrial building: focus on embodied carbon and energy. <i>Energy Procedia</i> , 2018 , 153, 420-425	2.3	25
41	<i>Phaeodactylum tricornutum</i> derived biosilica purification for energy applications. <i>Energy Procedia</i> , 2018 , 153, 279-283	2.3	8
40	Carbon footprint of microalgae production in photobioreactor. <i>Energy Procedia</i> , 2018 , 153, 432-437	2.3	10

39	Sustainable engineering labs - A Portuguese perspective. <i>Energy Procedia</i> , 2018 , 153, 455-460	2.3	2
38	Water footprint of microalgae cultivation in photobioreactor. <i>Energy Procedia</i> , 2018 , 153, 426-431	2.3	20
37	Biochemical characterization of <i>Phaeodactylum tricornutum</i> for microalgae-based biorefinery. <i>Energy Procedia</i> , 2018 , 153, 466-470	2.3	10
36	Advances on Sustainable Development in Higher Education 2018 ,		1
35	Life cycle assessment tool of electricity generation in Portugal. <i>Environment, Development and Sustainability</i> , 2018 , 20, 129-143	4.5	20
34	New Trends in Energy Production and Utilization. <i>Energy Procedia</i> , 2017 , 107, 7-14	2.3	32
33	Sustainability in Buildings [A Teaching Approach. <i>Energy Procedia</i> , 2017 , 107, 15-22	2.3	3
32	Valorisation of Spent Coffee Grounds: Production of Biodiesel via Enzymatic Catalysis with Ethanol and a Co-solvent. <i>Waste and Biomass Valorization</i> , 2017 , 8, 1981-1994	3.2	33
31	Analyzing <i>Phaeodactylum tricornutum</i> lipid profile for biodiesel production. <i>Energy Procedia</i> , 2017 , 136, 369-373	2.3	15
30	LCA for Membrane Processes. <i>Green Chemistry and Sustainable Technology</i> , 2017 , 23-66	1.1	4
29	Acidity reduction of mammalian fat by enzymatic esterification. <i>Energy Procedia</i> , 2017 , 136, 290-295	2.3	5
28	Acidity reduction in animal fats by enzymatic esterification: economic and environmental analysis. <i>Energy Procedia</i> , 2017 , 136, 308-315	2.3	2
27	Engineering education towards sustainability. <i>Energy Procedia</i> , 2017 , 136, 414-417	2.3	10
26	Study, design and analysis of sustainable alternatives to plastic takeaway cutlery and crockery. <i>Energy Procedia</i> , 2017 , 136, 507-512	2.3	13
25	Lipid and carbohydrate profile of a microalga isolated from wastewater. <i>Energy Procedia</i> , 2017 , 136, 468-473	2.3	17
24	Fish oil acidity reduction by enzymatic esterification. <i>Energy Procedia</i> , 2017 , 136, 474-480	2.3	11
23	A multicultural approach to teach sustainability. <i>Journal of Technology and Science Education</i> , 2016 , 5,	1.4	1
22	Learning sustainability by developing a solar dryer for microalgae retrieval. <i>Journal of Technology and Science Education</i> , 2016 , 5,	1.4	1

21	Educating global engineers with EPS@ISEP: The pet tracker project experience 2016 ,		2
20	Learning sustainability and social compromise skills 2015 ,		2
19	Design and development of a solar dryer for microalgae retrieval an EPS@ISEP 2013 spring project 2015 ,		1
18	Buildings Sustainability: The HVAC Contribution. <i>Journal of Clean Energy Technologies</i> , 2015 , 4, 375-379	0.2	2
17	Spent coffee grounds for biodiesel production and other applications. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 1423-1430	4.3	77
16	Sustainability and economic evaluation of microalgae grown in brewery wastewater. <i>Bioresource Technology</i> , 2014 , 168, 151-8	11	42
15	Smart Object for 3D Interaction. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 49-61	0.2	
14	Sustainability analysis of biofuels through the supply chain using indicators. <i>Sustainable Energy Technologies and Assessments</i> , 2013 , 3, 53-60	4.7	36
13	Sustainability Considerations about Microalgae for Biodiesel Production 2013 , 745-757		4
12	Valorization of Waste Frying Oils and Animal Fats for Biodiesel Production 2013 , 671-693		11
11	Parametric study of a brewery effluent treatment by microalgae <i>Scenedesmus obliquus</i> . <i>Bioresource Technology</i> , 2012 , 107, 151-8	11	138
10	Microalgae processing for biodiesel production 2012 , 204-231		9
9	Biodiesel Production from Corn Oil via Enzymatic Catalysis with Ethanol. <i>Energy & Fuels</i> , 2012 , 26, 3034-3041	4.1	31
8	Evaluation of Two Purification Methods of Biodiesel from Beef Tallow, Pork Lard, and Chicken Fat. <i>Energy & Fuels</i> , 2011 , 25, 4756-4762	4.1	64
7	Design and Simulation of Eco-Efficient Biodiesel Manufacture. <i>Computer Aided Chemical Engineering</i> , 2011 , 29, 1235-1240	0.6	1
6	Microalgae for biodiesel production and other applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 217-232	16.2	3767
5	Temperature compensation of a gas sensor for binary mixtures based on the permselectivity of polymeric membranes. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 1-4	8.5	1
4	Hydrogen/methane and hydrogen/nitrogen sensor based on the permselectivity of polymeric membranes. <i>Sensors and Actuators B: Chemical</i> , 2005 , 111-112, 150-159	8.5	8

3	Development of a new gas sensor for binary mixtures based on the permselectivity of polymeric membranes. Application to oxygen/nitrogen mixture. <i>Journal of Membrane Science</i> , 2004 , 244, 35-44	9.6	9
2	Development of a new gas sensor for binary mixtures based on the permselectivity of polymeric membranes. <i>Analytica Chimica Acta</i> , 2004 , 511, 215-221	6.6	8
1	MTBE synthesis catalysed by acid ion exchange resins: Kinetic studies and modeling of multiphase batch reactors. <i>Chemical Engineering Science</i> , 1994 , 49, 4589-4604	4.4	25