Antonio A Martins

List of Publications by Year
in descending order

67 papers	6,298 citations	257101 24 h-index	155451 55 g-index
100 all docs	100 docs citations	100 times ranked	7171 citing authors

#	Article	IF	Citations
1	Energy consumption and carbon footprint of perovskite solar cells. Energy Reports, 2022, 8, 475-481.	2.5	8
2	Environmental analysis of a bio-based coating material for automobile interiors. Journal of Cleaner Production, 2022, 367, 133011.	4.6	7
3	Indoor Air Quality Improvement Using Nature-Based Solutions: Design Proposals to Greener Cities. International Journal of Environmental Research and Public Health, 2021, 18, 8472.	1.2	17
4	Microalgae Biomolecules: Extraction, Separation and Purification Methods. Processes, 2021, 9, 10.	1.3	64
5	Valorization of Agro-Industrial Residues: Bioprocessing of Animal Fats to Reduce Their Acidity. Sustainability, 2021, 13, 10837.	1.6	4
6	Composition, cultivation and potential applications of Chlorella zofingiensis â€“ A comprehensive review. Algal Research, 2021, 60, 102508.	2.4	11
7	Optimization of Ultrasound-Assisted Extraction of Spent Coffee Grounds Oil Using Response Surface Methodology. Processes, 2021, 9, 2085.	1.3	7
8	Fish Oil Enzymatic Esterification for Acidity Reduction. Waste and Biomass Valorization, 2020, 11, 1131-1141.	1.8	2
9	Decentralized electricity storage evaluation in the Portuguese context. Electricity Journal, 2020, 33, 106822.	1.3	6
10	Life cycle assessment of a renewable energy generation system with a vanadium redox flow battery in a NZEB household. Energy Reports, 2020, 6, 87-94.	2.5	19
11	Microalgae for biotechnological applications: Cultivation, harvesting and biomass processing. Aquaculture, 2020, 528, 735562.	1.7	93
12	Syngas production by bi-reforming methane on an Niâ€“K-promoted catalyst using hydrotalcites and filamentous carbon as a support material. RSC Advances, 2020, 10, 21158-21173.	1.7	7
13	Evaluation of Areca palm renewable options to replace disposable plastic containers using life cycle assessment methodology. Energy Reports, 2020, 6, 80-86.	2.5	13
14	Biotechnological potential of Phaeodactylum tricornutum for biorefinery processes. Fuel, 2020, 268, 117357.	3.4	50
15	Environmental assessment of industrial production of microalgal biodiesel in central-south Chile. Journal of Cleaner Production, 2020, 266, 121756.	4.6	32
16	Biofixation of CO2 emissions from natural gas combined cycle power plant. Energy Reports, 2020, 6, 140-146.	2.5	15
17	Acid pretreatment of sugarcane biomass to obtain hemicellulosic hydrolisate rich in fermentable sugar. Energy Reports, 2020, 6, 18-23.	2.5	17
18	Enhancing extraction and purification of phycocyanin from Arthrospira sp. with lower energy consumption. Energy Reports, 2020, 6, 312-318.	2.5	26

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19	Life cycle energy and carbon emissions of ergosterol from mushroom residues. Energy Reports, 2020, 6, 333-339.	2.5	9
20	Economic and environmental analysis of animal fats acidity reduction by enzymatic esterification. Journal of Cleaner Production, 2018, 184, 481-489.	4.6	20
21	Towards sustainable wine: Comparison of two Portuguese wines. Journal of Cleaner Production, 2018, 183, 662-676.	4.6	60
22	Bio-refinery approach for spent coffee grounds valorization. Bioresource Technology, 2018, 247, 1077-1084.	4.8	153
23	LCA of constructing an industrial building: focus on embodied carbon and energy. Energy Procedia, 2018, 153, 420-425.	1.8	43
24	Phaeodactylum tricornutum derived biosilica purification for energy applications. Energy Procedia, 2018, 153, 279-283.	1.8	10
25	Carbon footprint of microalgae production in photobioreactor. Energy Procedia, 2018, 153, 432-437.	1.8	22
26	Water footprint of microalgae cultivation in photobioreactor. Energy Procedia, 2018, 153, 426-431.	1.8	31
27	Biochemical characterization of Phaeodactylum tricornutum for microalgae-based biorefinery. Energy Procedia, 2018, 153, 466-470.	1.8	12
28	Life cycle assessment tool of electricity generation in Portugal. Environment, Development and Sustainability, 2018, 20, 129-143.	2.7	23
29	Potential of Phaeodactylum tricornutum for Biodiesel Production under Natural Conditions in Chile. Energies, 2018, 11, 54.	1.6	30
30	New Trends in Energy Production and Utilization. Energy Procedia, 2017, 107, 7-14.	1.8	48
31	Carbon footprint of the insulation cork board. Journal of Cleaner Production, 2017, 143, 925-932.	4.6	52
32	Valorisation of Spent Coffee Grounds: Production of Biodiesel via Enzymatic Catalysis with Ethanol and a Co-solvent. Waste and Biomass Valorization, 2017, 8, 1981-1994.	1.8	41
33	LCA for Membrane Processes. Green Chemistry and Sustainable Technology, 2017, , 23-66.	0.4	5
34	Acidity reduction of mammalian fat by enzymatic esterification. Energy Procedia, 2017, 136, 290-295.	1.8	6
35	Acidity reduction in animal fats by enzymatic esterification: economic and environmental analysis. Energy Procedia, 2017, 136, 308-315.	1.8	3
36	Fish oil acidity reduction by enzymatic esterification. Energy Procedia, 2017, 136, 474-480.	1.8	14

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37	Accurate modelling of DC-DC power converters for photovoltaic applications. , 2016, , .		1
38	Control architecture based on FPGA for a renewable energy system. , 2016, , .		1
39	Assessing the efficiency of protected areas to represent biodiversity: a small island case study. Environmental Conservation, 2016, 43, 337-349.	0.7	14
40	Low power interleaved DC-DC converter with high voltage gain for photovoltaic applications. , 2015, , .		1
41	Design of a bidirectional DC-DC converter with high-frequency isolation for battery applications. , 2015, , .		0
42	Prospects of using microalgae for biofuels production: Results of a Delphi study. Renewable Energy, 2015, 75, 799-804.	4.3	41
43	Spent coffee grounds for biodiesel production and other applications. Clean Technologies and Environmental Policy, 2014, 16, 1423-1430.	2.1	100
44	Sustainability and economic evaluation of microalgae grown in brewery wastewater. Bioresource Technology, 2014, 168, 151-158.	4.8	50
45	Sustainability analysis of biofuels through the supply chain using indicators. Sustainable Energy Technologies and Assessments, 2013, 3, 53-60.	1.7	47
46	Sustainability Considerations about Microalgae for Biodiesel Production. , 2013, , 745-757.		7
47	Valorization of Waste Frying Oils and Animal Fats for Biodiesel Production. , 2013, , 671-693.		12
48	Activated Sludge Models Coupled to CFD Simulations. , 2012, , 153-173.		3
49	Sustainability considerations of biodiesel based on supply chain analysis. Clean Technologies and Environmental Policy, 2011, 13, 655-671.	2.1	72
50	NETmixÂ®, a new type of static mixer: Experimental characterization and model validation. AICHE Journal, 2011, 57, 1020-1032.	1.8	37
51	Design and Simulation of Eco-Efficient Biodiesel Manufacture. Computer Aided Chemical Engineering, 2011, 29, 1235-1240.	0.3	3
52	Comparison of allocation approaches in soybean biodiesel life cycle assessment. Journal of the Institute of Energy, 2010, 83, 48-55.	0.4	14
53	Technology transfer and sustainability. Clean Technologies and Environmental Policy, 2010, 12, 1-2.	2.1	1
54	Microalgae for biodiesel production and other applications: A review. Renewable and Sustainable Energy Reviews, 2010, 14, 217-232.	8.2	4,448

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55	Simulation and life cycle assessment of process design alternatives for biodiesel production from waste vegetable oils. Journal of Cleaner Production, 2010, 18, 1251-1259.	4.6	161
56	Designing Eco-Efficient Biodiesel Production Processes from Waste Vegetable Oils. Computer Aided Chemical Engineering, 2010, , 253-258.	0.3	9
57	NETmixÂ®, a new type of static mixer: Modeling, simulation, macromixing, and micromixing characterization. AICHE Journal, 2009, 55, 2226-2243.	1.8	39
58	Framework for Sustainability Metrics. Industrial & Engineering Chemistry Research, 2007, 46, 2962-2973.	1.8	129
59	Network modeling of flow in a packed bed. AICHE Journal, 2007, 53, 91-107.	1.8	21
60	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 13-14.	2.1	0
61	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 75-76.	2.1	0
62	Education for sustainability: challenges and trends. Clean Technologies and Environmental Policy, 2006, 8, 31-37.	2.1	53
63	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 229-231.	2.1	0
64	Mass Transport Modelling in Porous Media Using Delay Differential Equations. Defect and Diffusion Forum, 2006, 258-260, 586-591.	0.4	1
65	Webwatch for volume 7, number 3. Clean Technologies and Environmental Policy, 2005, 7, 148-149.	2.1	0
66	Hydrodynamics of gasâ€“liquid flow in 2D packed/unpacked rectangular reactor. Chemical Engineering Science, 1999, 54, 5127-5137.	1.9	10
67	Macroscopic and Microscopic Effects in Diffusion and Reaction in Catalyst Porous Particles. Defect and Diffusion Forum, 0, 283-286, 388-393.	0.4	1