

# Antonio A Martins

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Microalgae for biodiesel production and other applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 217-232.	8.2	4,448
2	Simulation and life cycle assessment of process design alternatives for biodiesel production from waste vegetable oils. <i>Journal of Cleaner Production</i> , 2010, 18, 1251-1259.	4.6	161
3	Bio-refinery approach for spent coffee grounds valorization. <i>Bioresource Technology</i> , 2018, 247, 1077-1084.	4.8	153
4	Framework for Sustainability Metrics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 2962-2973.	1.8	129
5	Spent coffee grounds for biodiesel production and other applications. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 1423-1430.	2.1	100
6	Microalgae for biotechnological applications: Cultivation, harvesting and biomass processing. <i>Aquaculture</i> , 2020, 528, 735562.	1.7	93
7	Sustainability considerations of biodiesel based on supply chain analysis. <i>Clean Technologies and Environmental Policy</i> , 2011, 13, 655-671.	2.1	72
8	Microalgae Biomolecules: Extraction, Separation and Purification Methods. <i>Processes</i> , 2021, 9, 10.	1.3	64
9	Towards sustainable wine: Comparison of two Portuguese wines. <i>Journal of Cleaner Production</i> , 2018, 183, 662-676.	4.6	60
10	Education for sustainability: challenges and trends. <i>Clean Technologies and Environmental Policy</i> , 2006, 8, 31-37.	2.1	53
11	Carbon footprint of the insulation cork board. <i>Journal of Cleaner Production</i> , 2017, 143, 925-932.	4.6	52
12	Sustainability and economic evaluation of microalgae grown in brewery wastewater. <i>Bioresource Technology</i> , 2014, 168, 151-158.	4.8	50
13	Biotechnological potential of <i>Phaeodactylum tricornutum</i> for biorefinery processes. <i>Fuel</i> , 2020, 268, 117357.	3.4	50
14	New Trends in Energy Production and Utilization. <i>Energy Procedia</i> , 2017, 107, 7-14.	1.8	48
15	Sustainability analysis of biofuels through the supply chain using indicators. <i>Sustainable Energy Technologies and Assessments</i> , 2013, 3, 53-60.	1.7	47
16	LCA of constructing an industrial building: focus on embodied carbon and energy. <i>Energy Procedia</i> , 2018, 153, 420-425.	1.8	43
17	Prospects of using microalgae for biofuels production: Results of a Delphi study. <i>Renewable Energy</i> , 2015, 75, 799-804.	4.3	41
18	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.	1.8	41

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19	NETmix <sup>®</sup> , a new type of static mixer: Modeling, simulation, macromixing, and micromixing characterization. <i>AIChE Journal</i> , 2009, 55, 2226-2243.	1.8	39
20	NETmix <sup>®</sup> , a new type of static mixer: Experimental characterization and model validation. <i>AIChE Journal</i> , 2011, 57, 1020-1032.	1.8	37
21	Environmental assessment of industrial production of microalgal biodiesel in central-south Chile. <i>Journal of Cleaner Production</i> , 2020, 266, 121756.	4.6	32
22	Water footprint of microalgae cultivation in photobioreactor. <i>Energy Procedia</i> , 2018, 153, 426-431.	1.8	31
23	Potential of <i>Phaeodactylum tricornutum</i> for Biodiesel Production under Natural Conditions in Chile. <i>Energies</i> , 2018, 11, 54.	1.6	30
24	Enhancing extraction and purification of phycocyanin from <i>Arthrospira</i> sp. with lower energy consumption. <i>Energy Reports</i> , 2020, 6, 312-318.	2.5	26
25	Life cycle assessment tool of electricity generation in Portugal. <i>Environment, Development and Sustainability</i> , 2018, 20, 129-143.	2.7	23
26	Carbon footprint of microalgae production in photobioreactor. <i>Energy Procedia</i> , 2018, 153, 432-437.	1.8	22
27	Network modeling of flow in a packed bed. <i>AIChE Journal</i> , 2007, 53, 91-107.	1.8	21
28	Economic and environmental analysis of animal fats acidity reduction by enzymatic esterification. <i>Journal of Cleaner Production</i> , 2018, 184, 481-489.	4.6	20
29	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.	2.5	19
30	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, 8472.	1.2	17
31	Acid pretreatment of sugarcane biomass to obtain hemicellulosic hydrolysis rich in fermentable sugar. <i>Energy Reports</i> , 2020, 6, 18-23.	2.5	17
32	Biofixation of CO <sub>2</sub> emissions from natural gas combined cycle power plant. <i>Energy Reports</i> , 2020, 6, 140-146.	2.5	15
33	Comparison of allocation approaches in soybean biodiesel life cycle assessment. <i>Journal of the Institute of Energy</i> , 2010, 83, 48-55.	0.4	14
34	Assessing the efficiency of protected areas to represent biodiversity: a small island case study. <i>Environmental Conservation</i> , 2016, 43, 337-349.	0.7	14
35	Fish oil acidity reduction by enzymatic esterification. <i>Energy Procedia</i> , 2017, 136, 474-480.	1.8	14
36	Evaluation of Areca palm renewable options to replace disposable plastic containers using life cycle assessment methodology. <i>Energy Reports</i> , 2020, 6, 80-86.	2.5	13

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37	Biochemical characterization of <i>Phaeodactylum tricornutum</i> for microalgae-based biorefinery. <i>Energy Procedia</i> , 2018, 153, 466-470.	1.8	12
38	Valorization of Waste Frying Oils and Animal Fats for Biodiesel Production. , 2013, , 671-693.		12
39	Composition, cultivation and potential applications of <i>Chlorella zofingiensis</i> – A comprehensive review. <i>Algal Research</i> , 2021, 60, 102508.	2.4	11
40	Hydrodynamics of gas-liquid flow in 2D packed/unpacked rectangular reactor. <i>Chemical Engineering Science</i> , 1999, 54, 5127-5137.	1.9	10
41	<i>Phaeodactylum tricornutum</i> derived biosilica purification for energy applications. <i>Energy Procedia</i> , 2018, 153, 279-283.	1.8	10
42	Designing Eco-Efficient Biodiesel Production Processes from Waste Vegetable Oils. <i>Computer Aided Chemical Engineering</i> , 2010, , 253-258.	0.3	9
43	Life cycle energy and carbon emissions of ergosterol from mushroom residues. <i>Energy Reports</i> , 2020, 6, 333-339.	2.5	9
44	Energy consumption and carbon footprint of perovskite solar cells. <i>Energy Reports</i> , 2022, 8, 475-481.	2.5	8
45	Sustainability Considerations about Microalgae for Biodiesel Production. , 2013, , 745-757.		7
46	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.	1.7	7
47	Optimization of Ultrasound-Assisted Extraction of Spent Coffee Grounds Oil Using Response Surface Methodology. <i>Processes</i> , 2021, 9, 2085.	1.3	7
48	Environmental analysis of a bio-based coating material for automobile interiors. <i>Journal of Cleaner Production</i> , 2022, 367, 133011.	4.6	7
49	Acidity reduction of mammalian fat by enzymatic esterification. <i>Energy Procedia</i> , 2017, 136, 290-295.	1.8	6
50	Decentralized electricity storage evaluation in the Portuguese context. <i>Electricity Journal</i> , 2020, 33, 106822.	1.3	6
51	LCA for Membrane Processes. <i>Green Chemistry and Sustainable Technology</i> , 2017, , 23-66.	0.4	5
52	Valorization of Agro-Industrial Residues: Bioprocessing of Animal Fats to Reduce Their Acidity. <i>Sustainability</i> , 2021, 13, 10837.	1.6	4
53	Design and Simulation of Eco-Efficient Biodiesel Manufacture. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1235-1240.	0.3	3
54	Acidity reduction in animal fats by enzymatic esterification: economic and environmental analysis. <i>Energy Procedia</i> , 2017, 136, 308-315.	1.8	3

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55	Activated Sludge Models Coupled to CFD Simulations. , 2012, , 153-173.		3
56	Fish Oil Enzymatic Esterification for Acidity Reduction. Waste and Biomass Valorization, 2020, 11, 1131-1141.	1.8	2
57	Mass Transport Modelling in Porous Media Using Delay Differential Equations. Defect and Diffusion Forum, 2006, 258-260, 586-591.	0.4	1
58	Macroscopic and Microscopic Effects in Diffusion and Reaction in Catalyst Porous Particles. Defect and Diffusion Forum, 0, 283-286, 388-393.	0.4	1
59	Technology transfer and sustainability. Clean Technologies and Environmental Policy, 2010, 12, 1-2.	2.1	1
60	Low power interleaved DC-DC converter with high voltage gain for photovoltaic applications. , 2015, , .		1
61	Accurate modelling of DC-DC power converters for photovoltaic applications. , 2016, , .		1
62	Control architecture based on FPGA for a renewable energy system. , 2016, , .		1
63	Webwatch for volume 7, number 3. Clean Technologies and Environmental Policy, 2005, 7, 148-149.	2.1	0
64	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 13-14.	2.1	0
65	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 75-76.	2.1	0
66	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 229-231.	2.1	0
67	Design of a bidirectional DC-DC converter with high-frequency isolation for battery applications. , 2015, , .		0