Teresa M Mata

List of Publications by Year
in descending order

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85 papers	7,038 citations	201674 27 h-index	69250 77 g-index
129 all docs	129 docs citations	129 times ranked	7583 citing authors

#	Article	IF	Citations
1	Life cycle energy and carbon emissions of essential oil extraction from Rosemary. Energy Reports, 2022, 8, 291-297.	5.1	11
2	Energy consumption and carbon footprint of perovskite solar cells. Energy Reports, 2022, 8, 475-481.	5.1	8
3	Life cycle assessment of bioethanol from corn stover from soil phytoremediation. Energy Reports, 2022, 8, 468-474.	5.1	16
4	Environmental life cycle assessment of early-stage development of ergosterol extraction from mushroom bio-residues. Journal of Cleaner Production, 2022, 355, 131623.	9.3	3
5	Life cycle analysis of a combined electrolysis and methanation reactor for methane production. Energy Reports, 2022, 8, 554-560.	5.1	1
6	Indoor Air Quality in Elderly Centers: Pollutants Emission and Health Effects. Environments - MDPI, 2022, 9, 86.	3.3	18
7	Environmental analysis of a bio-based coating material for automobile interiors. Journal of Cleaner Production, 2022, 367, 133011.	9.3	7
8	Indoor Air Quality Improvement Using Nature-Based Solutions: Design Proposals to Greener Cities. International Journal of Environmental Research and Public Health, 2021, 18, 8472.	2.6	17
9	Microalgae Biomolecules: Extraction, Separation and Purification Methods. Processes, 2021, 9, 10.	2.8	64
10	Valorization of Agro-Industrial Residues: Bioprocessing of Animal Fats to Reduce Their Acidity. Sustainability, 2021, 13, 10837.	3.2	4
11	Composition, cultivation and potential applications of Chlorella zofingiensis â€“ A comprehensive review. Algal Research, 2021, 60, 102508.	4.6	11
12	Optimization of Ultrasound-Assisted Extraction of Spent Coffee Grounds Oil Using Response Surface Methodology. Processes, 2021, 9, 2085.	2.8	7
13	Fish Oil Enzymatic Esterification for Acidity Reduction. Waste and Biomass Valorization, 2020, 11, 1131-1141.	3.4	2
14	Flocculation of Arthrospira maxima for improved harvesting. Energy Reports, 2020, 6, 423-428.	5.1	21
15	Influence of cultivation conditions on the bioenergy potential and bio-compounds of Chlorella vulgaris. Energy Reports, 2020, 6, 378-384.	5.1	12
16	Application of domestic greywater for irrigating agricultural products: A brief study. Energy Reports, 2020, 6, 811-817.	5.1	20
17	Decentralized electricity storage evaluation in the Portuguese context. Electricity Journal, 2020, 33, 106822.	2.5	6
18	Economic analysis of microalgae biodiesel production in a small-scale facility. Energy Reports, 2020, 6, 325-332.	5.1	67

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19	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.	5.1	19
20	Microalgae for biotechnological applications: Cultivation, harvesting and biomass processing. Aquaculture, 2020, 528, 735562.	3.5	93
21	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.	3.6	7
22	Comparison of different lipid extraction procedures applied to three microalgal species. Energy Reports, 2020, 6, 477-482.	5.1	32
23	Evaluation of Areca palm renewable options to replace disposable plastic containers using life cycle assessment methodology. Energy Reports, 2020, 6, 80-86.	5.1	13
24	Catalytic bi-reforming of methane for carbon dioxide ennoblement. Energy Reports, 2020, 6, 74-79.	5.1	20
25	A life cycle inventory of microalgae-based biofuels production in an industrial plant concept. Energy Reports, 2020, 6, 397-402.	5.1	24
26	Biotechnological potential of Phaeodactylum tricornutum for biorefinery processes. Fuel, 2020, 268, 117357.	6.4	50
27	Life cycle assessment of a vanadium flow battery. Energy Reports, 2020, 6, 95-101.	5.1	28
28	Environmental assessment of industrial production of microalgal biodiesel in central-south Chile. Journal of Cleaner Production, 2020, 266, 121756.	9.3	32
29	Biofixation of CO2 emissions from natural gas combined cycle power plant. Energy Reports, 2020, 6, 140-146.	5.1	15
30	Acid pretreatment of sugarcane biomass to obtain hemicellulosic hydrolisate rich in fermentable sugar. Energy Reports, 2020, 6, 18-23.	5.1	17
31	Enhancing extraction and purification of phycocyanin from Arthrospira sp. with lower energy consumption. Energy Reports, 2020, 6, 312-318.	5.1	26
32	Life cycle energy and carbon emissions of ergosterol from mushroom residues. Energy Reports, 2020, 6, 333-339.	5.1	9
33	Symbiotic Co-Culture of Scenedesmus sp. and Azospirillum brasilense on N-Deficient Media with Biomass Production for Biofuels. Sustainability, 2019, 11, 707.	3.2	30
34	Sustainability evaluation of a Portuguese â€œterroirâ€•wine. BIO Web of Conferences, 2019, 12, 03017.	0.2	5
35	Economic and environmental analysis of animal fats acidity reduction by enzymatic esterification. Journal of Cleaner Production, 2018, 184, 481-489.	9.3	20
36	Towards sustainable wine: Comparison of two Portuguese wines. Journal of Cleaner Production, 2018, 183, 662-676.	9.3	60

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37	Bio-refinery approach for spent coffee grounds valorization. Bioresource Technology, 2018, 247, 1077-1084.	9.6	153
38	LCA of constructing an industrial building: focus on embodied carbon and energy. Energy Procedia, 2018, 153, 420-425.	1.8	43
39	Phaeodactylum tricornutum derived biosilica purification for energy applications. Energy Procedia, 2018, 153, 279-283.	1.8	10
40	Carbon footprint of microalgae production in photobioreactor. Energy Procedia, 2018, 153, 432-437.	1.8	22
41	Water footprint of microalgae cultivation in photobioreactor. Energy Procedia, 2018, 153, 426-431.	1.8	31
42	Biochemical characterization of Phaeodactylum tricornutum for microalgae-based biorefinery. Energy Procedia, 2018, 153, 466-470.	1.8	12
43	Life cycle assessment tool of electricity generation in Portugal. Environment, Development and Sustainability, 2018, 20, 129-143.	5.0	23
44	Potential of Phaeodactylum tricornutum for Biodiesel Production under Natural Conditions in Chile. Energies, 2018, 11, 54.	3.1	30
45	New Trends in Energy Production and Utilization. Energy Procedia, 2017, 107, 7-14.	1.8	48
46	Carbon footprint of the insulation cork board. Journal of Cleaner Production, 2017, 143, 925-932.	9.3	52
47	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.	3.4	41
48	LCA for Membrane Processes. Green Chemistry and Sustainable Technology, 2017, , 23-66.	0.7	5
49	Acidity reduction of mammalian fat by enzymatic esterification. Energy Procedia, 2017, 136, 290-295.	1.8	6
50	Acidity reduction in animal fats by enzymatic esterification: economic and environmental analysis. Energy Procedia, 2017, 136, 308-315.	1.8	3
51	Lipid and carbohydrate profile of a microalga isolated from wastewater. Energy Procedia, 2017, 136, 468-473.	1.8	22
52	Fish oil acidity reduction by enzymatic esterification. Energy Procedia, 2017, 136, 474-480.	1.8	14
53	Dunaliella tertiolecta (Chlorophyta) Avoids Cell Death Under Ultraviolet Radiation By Triggering Alternative Photoprotective Mechanisms. Photochemistry and Photobiology, 2015, 91, 1389-1402.	2.5	13
54	Prospects of using microalgae for biofuels production: Results of a Delphi study. Renewable Energy, 2015, 75, 799-804.	8.9	41

#	ARTICLE	IF	CITATIONS
55	Spent coffee grounds for biodiesel production and other applications. Clean Technologies and Environmental Policy, 2014, 16, 1423-1430.	4.1	100
56	Sustainability and economic evaluation of microalgae grown in brewery wastewater. Bioresource Technology, 2014, 168, 151-158.	9.6	50
57	Sustainability analysis of biofuels through the supply chain using indicators. Sustainable Energy Technologies and Assessments, 2013, 3, 53-60.	2.7	47
58	Sustainability Considerations about Microalgae for Biodiesel Production. , 2013, , 745-757.		7
59	Valorization of Waste Frying Oils and Animal Fats for Biodiesel Production. , 2013, , 671-693.		12
60	Microalgae processing for biodiesel production. , 2012, , 204-231.		14
61	Biodiesel Production from Corn Oil via Enzymatic Catalysis with Ethanol. Energy & Fuels, 2012, 26, 3034-3041.	5.1	40
62	Parametric study of a brewery effluent treatment by microalgae Scenedesmus obliquus. Bioresource Technology, 2012, 107, 151-158.	9.6	175
63	Evaluation of Two Purification Methods of Biodiesel from Beef Tallow, Pork Lard, and Chicken Fat. Energy & Fuels, 2011, 25, 4756-4762.	5.1	83
64	Sustainability considerations of biodiesel based on supply chain analysis. Clean Technologies and Environmental Policy, 2011, 13, 655-671.	4.1	72
65	Design and Simulation of Eco-Efficient Biodiesel Manufacture. Computer Aided Chemical Engineering, 2011, 29, 1235-1240.	0.5	3
66	Comparison of allocation approaches in soybean biodiesel life cycle assessment. Journal of the Institute of Energy, 2010, 83, 48-55.	0.4	14
67	Technology transfer and sustainability. Clean Technologies and Environmental Policy, 2010, 12, 1-2.	4.1	1
68	Microalgae for biodiesel production and other applications: A review. Renewable and Sustainable Energy Reviews, 2010, 14, 217-232.	16.4	4,448
69	Simulation and life cycle assessment of process design alternatives for biodiesel production from waste vegetable oils. Journal of Cleaner Production, 2010, 18, 1251-1259.	9.3	161
70	Designing Eco-Efficient Biodiesel Production Processes from Waste Vegetable Oils. Computer Aided Chemical Engineering, 2010, , 253-258.	0.5	9
71	Modeling and Simulation of Heavy Metals Removal From Drinking Water by Magnetic Zeolite. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 61-84.	0.2	6
72	Framework for Sustainability Metrics. Industrial & Engineering Chemistry Research, 2007, 46, 2962-2973.	3.7	129

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73	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 13-14.	4.1	0
74	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 75-76.	4.1	0
75	Education for sustainability: challenges and trends. Clean Technologies and Environmental Policy, 2006, 8, 31-37.	4.1	53
76	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 229-231.	4.1	0
77	Environmental analysis of gasoline blending components through their life cycle. Journal of Cleaner Production, 2005, 13, 517-523.	9.3	18
78	Webwatch for volume 7, number 3. Clean Technologies and Environmental Policy, 2005, 7, 148-149.	4.1	0
79	Designing environmentally friendly chemical processes with fugitive and open emissions. Journal of Cleaner Production, 2004, 12, 125-129.	9.3	21
80	Evaluating the Environmental Friendliness, Economics and Energy Efficiency of Chemical Processes: Heat Integration. , 2004, , 355-369.		0
81	Evaluating the environmental friendliness, economics and energy efficiency of chemical processes: heat integration. Clean Technologies and Environmental Policy, 2003, 5, 302-309.	4.1	22
82	Life Cycle Assessment of Gasoline Blending Options. Environmental Science & Technology, 2003, 37, 3724-3732.	10.0	16
83	Designing efficient, economic and environmentally friendly chemical processes. Computer Aided Chemical Engineering, 2001, 9, 1165-1170.	0.5	3
84	Life cycle assessment of different reuse percentages for glass beer bottles. International Journal of Life Cycle Assessment, 2001, 6, 307-319.	4.7	43
85	Macroscopic and Microscopic Effects in Diffusion and Reaction in Catalyst Porous Particles. Defect and Diffusion Forum, 0, 283-286, 388-393.	0.4	1