

Teresa M Mata

List of Publications by Year in descending order

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85
papers

7,038
citations

201575

27
h-index

69214

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.	2.5	11
2	Energy consumption and carbon footprint of perovskite solar cells. Energy Reports, 2022, 8, 475-481.	2.5	8
3	Life cycle assessment of bioethanol from corn stover from soil phytoremediation. Energy Reports, 2022, 8, 468-474.	2.5	16
4	Environmental life cycle assessment of early-stage development of ergosterol extraction from mushroom bio-residues. Journal of Cleaner Production, 2022, 355, 131623.	4.6	3
5	Life cycle analysis of a combined electrolysis and methanation reactor for methane production. Energy Reports, 2022, 8, 554-560.	2.5	1
6	Indoor Air Quality in Elderly Centers: Pollutants Emission and Health Effects. Environments - MDPI, 2022, 9, 86.	1.5	18
7	Environmental analysis of a bio-based coating material for automobile interiors. Journal of Cleaner Production, 2022, 367, 133011.	4.6	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.	1.2	17
9	Microalgae Biomolecules: Extraction, Separation and Purification Methods. Processes, 2021, 9, 10.	1.3	64
10	Valorization of Agro-Industrial Residues: Bioprocessing of Animal Fats to Reduce Their Acidity. Sustainability, 2021, 13, 10837.	1.6	4
11	Composition, cultivation and potential applications of <i>Chlorella zofingiensis</i> "A comprehensive review. Algal Research, 2021, 60, 102508.	2.4	11
12	Optimization of Ultrasound-Assisted Extraction of Spent Coffee Grounds Oil Using Response Surface Methodology. Processes, 2021, 9, 2085.	1.3	7
13	Fish Oil Enzymatic Esterification for Acidity Reduction. Waste and Biomass Valorization, 2020, 11, 1131-1141.	1.8	2
14	Flocculation of <i>Arthrospira maxima</i> for improved harvesting. Energy Reports, 2020, 6, 423-428.	2.5	21
15	Influence of cultivation conditions on the bioenergy potential and bio-compounds of <i>Chlorella vulgaris</i> . Energy Reports, 2020, 6, 378-384.	2.5	12
16	Application of domestic greywater for irrigating agricultural products: A brief study. Energy Reports, 2020, 6, 811-817.	2.5	20
17	Decentralized electricity storage evaluation in the Portuguese context. Electricity Journal, 2020, 33, 106822.	1.3	6
18	Economic analysis of microalgae biodiesel production in a small-scale facility. Energy Reports, 2020, 6, 325-332.	2.5	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. <i>Energy Reports</i> , 2020, 6, 87-94.	2.5	19
20	Microalgae for biotechnological applications: Cultivation, harvesting and biomass processing. <i>Aquaculture</i> , 2020, 528, 735562.	1.7	93
21	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
22	Comparison of different lipid extraction procedures applied to three microalgal species. <i>Energy Reports</i> , 2020, 6, 477-482.	2.5	32
23	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
24	Catalytic bi-reforming of methane for carbon dioxide ennoblement. <i>Energy Reports</i> , 2020, 6, 74-79.	2.5	20
25	A life cycle inventory of microalgae-based biofuels production in an industrial plant concept. <i>Energy Reports</i> , 2020, 6, 397-402.	2.5	24
26	Biotechnological potential of <i>Phaeodactylum tricornutum</i> for biorefinery processes. <i>Fuel</i> , 2020, 268, 117357.	3.4	50
27	Life cycle assessment of a vanadium flow battery. <i>Energy Reports</i> , 2020, 6, 95-101.	2.5	28
28	Environmental assessment of industrial production of microalgal biodiesel in central-south Chile. <i>Journal of Cleaner Production</i> , 2020, 266, 121756.	4.6	32
29	Biofixation of CO ₂ emissions from natural gas combined cycle power plant. <i>Energy Reports</i> , 2020, 6, 140-146.	2.5	15
30	Acid pretreatment of sugarcane biomass to obtain hemicellulosic hydrolysisate rich in fermentable sugar. <i>Energy Reports</i> , 2020, 6, 18-23.	2.5	17
31	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
32	Life cycle energy and carbon emissions of ergosterol from mushroom residues. <i>Energy Reports</i> , 2020, 6, 333-339.	2.5	9
33	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.	1.6	30
34	Sustainability evaluation of a Portuguese "terroir" wine. <i>BIO Web of Conferences</i> , 2019, 12, 03017.	0.1	5
35	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
36	Towards sustainable wine: Comparison of two Portuguese wines. <i>Journal of Cleaner Production</i> , 2018, 183, 662-676.	4.6	60

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37	Bio-refinery approach for spent coffee grounds valorization. <i>Bioresource Technology</i> , 2018, 247, 1077-1084.	4.8	153
38	LCA of constructing an industrial building: focus on embodied carbon and energy. <i>Energy Procedia</i> , 2018, 153, 420-425.	1.8	43
39	<i>Phaeodactylum tricornutum</i> derived biosilica purification for energy applications. <i>Energy Procedia</i> , 2018, 153, 279-283.	1.8	10
40	Carbon footprint of microalgae production in photobioreactor. <i>Energy Procedia</i> , 2018, 153, 432-437.	1.8	22
41	Water footprint of microalgae cultivation in photobioreactor. <i>Energy Procedia</i> , 2018, 153, 426-431.	1.8	31
42	Biochemical characterization of <i>Phaeodactylum tricornutum</i> for microalgae-based biorefinery. <i>Energy Procedia</i> , 2018, 153, 466-470.	1.8	12
43	Life cycle assessment tool of electricity generation in Portugal. <i>Environment, Development and Sustainability</i> , 2018, 20, 129-143.	2.7	23
44	Potential of <i>Phaeodactylum tricornutum</i> for Biodiesel Production under Natural Conditions in Chile. <i>Energies</i> , 2018, 11, 54.	1.6	30
45	New Trends in Energy Production and Utilization. <i>Energy Procedia</i> , 2017, 107, 7-14.	1.8	48
46	Carbon footprint of the insulation cork board. <i>Journal of Cleaner Production</i> , 2017, 143, 925-932.	4.6	52
47	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
48	LCA for Membrane Processes. <i>Green Chemistry and Sustainable Technology</i> , 2017, , 23-66.	0.4	5
49	Acidity reduction of mammalian fat by enzymatic esterification. <i>Energy Procedia</i> , 2017, 136, 290-295.	1.8	6
50	Acidity reduction in animal fats by enzymatic esterification: economic and environmental analysis. <i>Energy Procedia</i> , 2017, 136, 308-315.	1.8	3
51	Lipid and carbohydrate profile of a microalga isolated from wastewater. <i>Energy Procedia</i> , 2017, 136, 468-473.	1.8	22
52	Fish oil acidity reduction by enzymatic esterification. <i>Energy Procedia</i> , 2017, 136, 474-480.	1.8	14
53	<i>Dunaliella tertiolecta</i> (Chlorophyta) Avoids Cell Death Under Ultraviolet Radiation By Triggering Alternative Photoprotective Mechanisms. <i>Photochemistry and Photobiology</i> , 2015, 91, 1389-1402.	1.3	13
54	Prospects of using microalgae for biofuels production: Results of a Delphi study. <i>Renewable Energy</i> , 2015, 75, 799-804.	4.3	41

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55	Spent coffee grounds for biodiesel production and other applications. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 1423-1430.	2.1	100
56	Sustainability and economic evaluation of microalgae grown in brewery wastewater. <i>Bioresource Technology</i> , 2014, 168, 151-158.	4.8	50
57	Sustainability analysis of biofuels through the supply chain using indicators. <i>Sustainable Energy Technologies and Assessments</i> , 2013, 3, 53-60.	1.7	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. <i>Energy & Fuels</i> , 2012, 26, 3034-3041.	2.5	40
62	Parametric study of a brewery effluent treatment by microalgae <i>Scenedesmus obliquus</i> . <i>Bioresource Technology</i> , 2012, 107, 151-158.	4.8	175
63	Evaluation of Two Purification Methods of Biodiesel from Beef Tallow, Pork Lard, and Chicken Fat. <i>Energy & Fuels</i> , 2011, 25, 4756-4762.	2.5	83
64	Sustainability considerations of biodiesel based on supply chain analysis. <i>Clean Technologies and Environmental Policy</i> , 2011, 13, 655-671.	2.1	72
65	Design and Simulation of Eco-Efficient Biodiesel Manufacture. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1235-1240.	0.3	3
66	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
67	Technology transfer and sustainability. <i>Clean Technologies and Environmental Policy</i> , 2010, 12, 1-2.	2.1	1
68	Microalgae for biodiesel production and other applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 217-232.	8.2	4,448
69	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
70	Designing Eco-Efficient Biodiesel Production Processes from Waste Vegetable Oils. <i>Computer Aided Chemical Engineering</i> , 2010, , 253-258.	0.3	9
71	Modeling and Simulation of Heavy Metals Removal From Drinking Water by Magnetic Zeolite. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009, , 61-84.	0.1	6
72	Framework for Sustainability Metrics. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 2962-2973.	1.8	129

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73	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 13-14.	2.1	0
74	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 75-76.	2.1	0
75	Education for sustainability: challenges and trends. Clean Technologies and Environmental Policy, 2006, 8, 31-37.	2.1	53
76	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 229-231.	2.1	0
77	Environmental analysis of gasoline blending components through their life cycle. Journal of Cleaner Production, 2005, 13, 517-523.	4.6	18
78	Webwatch for volume 7, number 3. Clean Technologies and Environmental Policy, 2005, 7, 148-149.	2.1	0
79	Designing environmentally friendly chemical processes with fugitive and open emissions. Journal of Cleaner Production, 2004, 12, 125-129.	4.6	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.	2.1	22
82	Life Cycle Assessment of Gasoline Blending Options. Environmental Science & Technology, 2003, 37, 3724-3732.	4.6	16
83	Designing efficient, economic and environmentally friendly chemical processes. Computer Aided Chemical Engineering, 2001, 9, 1165-1170.	0.3	3
84	Life cycle assessment of different reuse percentages for glass beer bottles. International Journal of Life Cycle Assessment, 2001, 6, 307-319.	2.2	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