

# Teresa M Mata

## List of Publications by Year in descending order

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85  
papers

7,038  
citations

201385

27  
h-index

69108

77  
g-index

129  
all docs

129  
docs citations

129  
times ranked

7583  
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	Parametric study of a brewery effluent treatment by microalgae <i>Scenedesmus obliquus</i> . <i>Bioresource Technology</i> , 2012, 107, 151-158.	4.8	175
3	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
4	Bio-refinery approach for spent coffee grounds valorization. <i>Bioresource Technology</i> , 2018, 247, 1077-1084.	4.8	153
5	Framework for Sustainability Metrics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 2962-2973.	1.8	129
6	Spent coffee grounds for biodiesel production and other applications. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 1423-1430.	2.1	100
7	Microalgae for biotechnological applications: Cultivation, harvesting and biomass processing. <i>Aquaculture</i> , 2020, 528, 735562.	1.7	93
8	Evaluation of Two Purification Methods of Biodiesel from Beef Tallow, Pork Lard, and Chicken Fat. <i>Energy &amp; Fuels</i> , 2011, 25, 4756-4762.	2.5	83
9	Sustainability considerations of biodiesel based on supply chain analysis. <i>Clean Technologies and Environmental Policy</i> , 2011, 13, 655-671.	2.1	72
10	Economic analysis of microalgae biodiesel production in a small-scale facility. <i>Energy Reports</i> , 2020, 6, 325-332.	2.5	67
11	Microalgae Biomolecules: Extraction, Separation and Purification Methods. <i>Processes</i> , 2021, 9, 10.	1.3	64
12	Towards sustainable wine: Comparison of two Portuguese wines. <i>Journal of Cleaner Production</i> , 2018, 183, 662-676.	4.6	60
13	Education for sustainability: challenges and trends. <i>Clean Technologies and Environmental Policy</i> , 2006, 8, 31-37.	2.1	53
14	Carbon footprint of the insulation cork board. <i>Journal of Cleaner Production</i> , 2017, 143, 925-932.	4.6	52
15	Sustainability and economic evaluation of microalgae grown in brewery wastewater. <i>Bioresource Technology</i> , 2014, 168, 151-158.	4.8	50
16	Biotechnological potential of <i>Phaeodactylum tricornutum</i> for biorefinery processes. <i>Fuel</i> , 2020, 268, 117357.	3.4	50
17	New Trends in Energy Production and Utilization. <i>Energy Procedia</i> , 2017, 107, 7-14.	1.8	48
18	Sustainability analysis of biofuels through the supply chain using indicators. <i>Sustainable Energy Technologies and Assessments</i> , 2013, 3, 53-60.	1.7	47

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19	Life cycle assessment of different reuse percentages for glass beer bottles. <i>International Journal of Life Cycle Assessment</i> , 2001, 6, 307-319.	2.2	43
20	LCA of constructing an industrial building: focus on embodied carbon and energy. <i>Energy Procedia</i> , 2018, 153, 420-425.	1.8	43
21	Prospects of using microalgae for biofuels production: Results of a Delphi study. <i>Renewable Energy</i> , 2015, 75, 799-804.	4.3	41
22	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
23	Biodiesel Production from Corn Oil via Enzymatic Catalysis with Ethanol. <i>Energy &amp; Fuels</i> , 2012, 26, 3034-3041.	2.5	40
24	Comparison of different lipid extraction procedures applied to three microalgal species. <i>Energy Reports</i> , 2020, 6, 477-482.	2.5	32
25	Environmental assessment of industrial production of microalgal biodiesel in central-south Chile. <i>Journal of Cleaner Production</i> , 2020, 266, 121756.	4.6	32
26	Water footprint of microalgae cultivation in photobioreactor. <i>Energy Procedia</i> , 2018, 153, 426-431.	1.8	31
27	Potential of <i>Phaeodactylum tricornutum</i> for Biodiesel Production under Natural Conditions in Chile. <i>Energies</i> , 2018, 11, 54.	1.6	30
28	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
29	Life cycle assessment of a vanadium flow battery. <i>Energy Reports</i> , 2020, 6, 95-101.	2.5	28
30	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
31	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
32	Life cycle assessment tool of electricity generation in Portugal. <i>Environment, Development and Sustainability</i> , 2018, 20, 129-143.	2.7	23
33	Evaluating the environmental friendliness, economics and energy efficiency of chemical processes: heat integration. <i>Clean Technologies and Environmental Policy</i> , 2003, 5, 302-309.	2.1	22
34	Lipid and carbohydrate profile of a microalga isolated from wastewater. <i>Energy Procedia</i> , 2017, 136, 468-473.	1.8	22
35	Carbon footprint of microalgae production in photobioreactor. <i>Energy Procedia</i> , 2018, 153, 432-437.	1.8	22
36	Designing environmentally friendly chemical processes with fugitive and open emissions. <i>Journal of Cleaner Production</i> , 2004, 12, 125-129.	4.6	21

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37	Flocculation of <i>Arthrospira maxima</i> for improved harvesting. <i>Energy Reports</i> , 2020, 6, 423-428.	2.5	21
38	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
39	Application of domestic greywater for irrigating agricultural products: A brief study. <i>Energy Reports</i> , 2020, 6, 811-817.	2.5	20
40	Catalytic bi-reforming of methane for carbon dioxide ennoblement. <i>Energy Reports</i> , 2020, 6, 74-79.	2.5	20
41	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
42	Environmental analysis of gasoline blending components through their life cycle. <i>Journal of Cleaner Production</i> , 2005, 13, 517-523.	4.6	18
43	Indoor Air Quality in Elderly Centers: Pollutants Emission and Health Effects. <i>Environments - MDPI</i> , 2022, 9, 86.	1.5	18
44	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
45	Acid pretreatment of sugarcane biomass to obtain hemicellulosic hydrolysate rich in fermentable sugar. <i>Energy Reports</i> , 2020, 6, 18-23.	2.5	17
46	Life Cycle Assessment of Gasoline Blending Options. <i>Environmental Science &amp; Technology</i> , 2003, 37, 3724-3732.	4.6	16
47	Life cycle assessment of bioethanol from corn stover from soil phytoremediation. <i>Energy Reports</i> , 2022, 8, 468-474.	2.5	16
48	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
49	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
50	Microalgae processing for biodiesel production. , 2012, , 204-231.		14
51	Fish oil acidity reduction by enzymatic esterification. <i>Energy Procedia</i> , 2017, 136, 474-480.	1.8	14
52	<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
53	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
54	Biochemical characterization of <i>Phaeodactylum tricornutum</i> for microalgae-based biorefinery. <i>Energy Procedia</i> , 2018, 153, 466-470.	1.8	12

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55	Influence of cultivation conditions on the bioenergy potential and bio-compounds of <i>Chlorella vulgaris</i> . <i>Energy Reports</i> , 2020, 6, 378-384.	2.5	12
56	Valorization of Waste Frying Oils and Animal Fats for Biodiesel Production. , 2013, , 671-693.		12
57	Composition, cultivation and potential applications of <i>Chlorella zofingiensis</i> – A comprehensive review. <i>Algal Research</i> , 2021, 60, 102508.	2.4	11
58	Life cycle energy and carbon emissions of essential oil extraction from Rosemary. <i>Energy Reports</i> , 2022, 8, 291-297.	2.5	11
59	<i>Phaeodactylum tricornutum</i> derived biosilica purification for energy applications. <i>Energy Procedia</i> , 2018, 153, 279-283.	1.8	10
60	Designing Eco-Efficient Biodiesel Production Processes from Waste Vegetable Oils. <i>Computer Aided Chemical Engineering</i> , 2010, , 253-258.	0.3	9
61	Life cycle energy and carbon emissions of ergosterol from mushroom residues. <i>Energy Reports</i> , 2020, 6, 333-339.	2.5	9
62	Energy consumption and carbon footprint of perovskite solar cells. <i>Energy Reports</i> , 2022, 8, 475-481.	2.5	8
63	Sustainability Considerations about Microalgae for Biodiesel Production. , 2013, , 745-757.		7
64	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
65	Optimization of Ultrasound-Assisted Extraction of Spent Coffee Grounds Oil Using Response Surface Methodology. <i>Processes</i> , 2021, 9, 2085.	1.3	7
66	Environmental analysis of a bio-based coating material for automobile interiors. <i>Journal of Cleaner Production</i> , 2022, 367, 133011.	4.6	7
67	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
68	Acidity reduction of mammalian fat by enzymatic esterification. <i>Energy Procedia</i> , 2017, 136, 290-295.	1.8	6
69	Decentralized electricity storage evaluation in the Portuguese context. <i>Electricity Journal</i> , 2020, 33, 106822.	1.3	6
70	LCA for Membrane Processes. <i>Green Chemistry and Sustainable Technology</i> , 2017, , 23-66.	0.4	5
71	Sustainability evaluation of a Portuguese –terroir– wine. <i>BIO Web of Conferences</i> , 2019, 12, 03017.	0.1	5
72	Valorization of Agro-Industrial Residues: Bioprocessing of Animal Fats to Reduce Their Acidity. <i>Sustainability</i> , 2021, 13, 10837.	1.6	4

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73	Designing efficient, economic and environmentally friendly chemical processes. Computer Aided Chemical Engineering, 2001, 9, 1165-1170.	0.3	3
74	Design and Simulation of Eco-Efficient Biodiesel Manufacture. Computer Aided Chemical Engineering, 2011, 29, 1235-1240.	0.3	3
75	Acidity reduction in animal fats by enzymatic esterification: economic and environmental analysis. Energy Procedia, 2017, 136, 308-315.	1.8	3
76	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
77	Fish Oil Enzymatic Esterification for Acidity Reduction. Waste and Biomass Valorization, 2020, 11, 1131-1141.	1.8	2
78	Macroscopic and Microscopic Effects in Diffusion and Reaction in Catalyst Porous Particles. Defect and Diffusion Forum, 0, 283-286, 388-393.	0.4	1
79	Technology transfer and sustainability. Clean Technologies and Environmental Policy, 2010, 12, 1-2.	2.1	1
80	Life cycle analysis of a combined electrolysis and methanation reactor for methane production. Energy Reports, 2022, 8, 554-560.	2.5	1
81	Webwatch for volume 7, number 3. Clean Technologies and Environmental Policy, 2005, 7, 148-149.	2.1	0
82	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 13-14.	2.1	0
83	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 75-76.	2.1	0
84	Clean technologies and environmental policy WEBWATCH. Clean Technologies and Environmental Policy, 2006, 8, 229-231.	2.1	0
85	Evaluating the Environmental Friendliness, Economics and Energy Efficiency of Chemical Processes: Heat Integration. , 2004, , 355-369.		0