

# Rosa M Rodriguez-Jasso

## List of Publications by Citations

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50  
papers

2,297  
citations

22  
h-index

47  
g-index

51  
ext. papers

2,912  
ext. citations

7.1  
avg, IF

5.42  
L-index

#	Paper	IF	Citations
50	Hydrothermal processing, as an alternative for upgrading agriculture residues and marine biomass according to the biorefinery concept: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 21, 35-51	16.2	434
49	Microwave-assisted extraction of sulfated polysaccharides (fucoïdan) from brown seaweed. <i>Carbohydrate Polymers</i> , <b>2011</b> , 86, 1137-1144	10.3	262
48	Microwave heating processing as alternative of pretreatment in second-generation biorefinery: An overview. <i>Energy Conversion and Management</i> , <b>2017</b> , 136, 50-65	10.6	184
47	Engineering aspects of hydrothermal pretreatment: From batch to continuous operation, scale-up and pilot reactor under biorefinery concept. <i>Bioresource Technology</i> , <b>2020</b> , 299, 122685	11	136
46	Microalgal biomass pretreatment for bioethanol production: a review. <i>Biofuel Research Journal</i> , <b>2018</b> , 5, 780-791	13.9	111
45	Pectinase production from lemon peel pomace as support and carbon source in solid-state fermentation column-tray bioreactor. <i>Biochemical Engineering Journal</i> , <b>2012</b> , 65, 90-95	4.2	97
44	Avocado by-products: Nutritional and functional properties. <i>Trends in Food Science and Technology</i> , <b>2018</b> , 80, 51-60	15.3	94
43	Adaptation of dinitrosalicylic acid method to microtiter plates. <i>Analytical Methods</i> , <b>2010</b> , 2, 2046	3.2	91
42	Biorefinery valorization of autohydrolysis wheat straw hemicellulose to be applied in a polymer-blend film. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 2154-62	10.3	88
41	Bioreactor design for enzymatic hydrolysis of biomass under the biorefinery concept. <i>Chemical Engineering Journal</i> , <b>2018</b> , 347, 119-136	14.7	87
40	Comparison of microwave and conduction-convection heating autohydrolysis pretreatment for bioethanol production. <i>Bioresource Technology</i> , <b>2017</b> , 243, 273-283	11	65
39	Growth of fungal strains on coffee industry residues with removal of polyphenolic compounds. <i>Biochemical Engineering Journal</i> , <b>2012</b> , 60, 87-90	4.2	64
38	Scale-up and evaluation of hydrothermal pretreatment in isothermal and non-isothermal regimen for bioethanol production using agave bagasse. <i>Bioresource Technology</i> , <b>2018</b> , 263, 112-119	11	54
37	Extraction of sulfated polysaccharides by autohydrolysis of brown seaweed <i>Fucus vesiculosus</i> . <i>Journal of Applied Phycology</i> , <b>2013</b> , 25, 31-39	3.2	51
36	Circular bioeconomy and integrated biorefinery in the production of xylooligosaccharides from lignocellulosic biomass: A review. <i>Industrial Crops and Products</i> , <b>2021</b> , 162, 113274	5.9	46
35	Enhancement and modeling of enzymatic hydrolysis on cellulose from agave bagasse hydrothermally pretreated in a horizontal bioreactor. <i>Carbohydrate Polymers</i> , <b>2019</b> , 211, 349-359	10.3	45
34	Chemical composition and antioxidant activity of sulphated polysaccharides extracted from <i>Fucus vesiculosus</i> using different hydrothermal processes. <i>Chemical Papers</i> , <b>2014</b> , 68,	1.9	44

33	Fucoidan-degrading fungal strains: screening, morphometric evaluation, and influence of medium composition. <i>Applied Biochemistry and Biotechnology</i> , <b>2010</b> , 162, 2177-88	3.2	34
32	Fungal fucoidanase production by solid-state fermentation in a rotating drum bioreactor using algal biomass as substrate. <i>Food and Bioproducts Processing</i> , <b>2013</b> , 91, 587-594	4.9	33
31	Process optimization of microwave-assisted extraction of bioactive molecules from avocado seeds. <i>Industrial Crops and Products</i> , <b>2020</b> , 154, 112623	5.9	25
30	High-pressure technology for Sargassum spp biomass pretreatment and fractionation in the third generation of bioethanol production. <i>Bioresource Technology</i> , <b>2021</b> , 329, 124935	11	24
29	Sustainable approach of high-pressure agave bagasse pretreatment for ethanol production. <i>Renewable Energy</i> , <b>2020</b> , 155, 1347-1354	8.1	22
28	Microbial co-culturing strategies for the production high value compounds, a reliable framework towards sustainable biorefinery implementation - an overview. <i>Bioresource Technology</i> , <b>2021</b> , 321, 124458	11	21
27	Recovery of bioactive components from avocado peels using microwave-assisted extraction. <i>Food and Bioproducts Processing</i> , <b>2021</b> , 127, 152-161	4.9	16
26	Subcritical water pretreatment for agave bagasse fractionation from tequila production and enzymatic susceptibility. <i>Bioresource Technology</i> , <b>2021</b> , 338, 125536	11	16
25	Severity factor kinetic model as a strategic parameter of hydrothermal processing (steam explosion and liquid hot water) for biomass fractionation under biorefinery concept. <i>Bioresource Technology</i> , <b>2021</b> , 342, 125961	11	16
24	Evaluation of functional and nutritional potential of a protein concentrate from Pleurotus ostreatus mushroom. <i>Food Chemistry</i> , <b>2021</b> , 346, 128884	8.5	14
23	Operational Strategies for Enzymatic Hydrolysis in a Biorefinery. <i>Biofuel and Biorefinery Technologies</i> , <b>2018</b> , 223-248	1	13
22	Valorization of Grapefruit By-Products as Solid Support for Solid-State Fermentation to Produce Antioxidant Bioactive Extracts. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 763-769	3.2	12
21	Emerging strategies for the development of food industries. <i>Bioengineered</i> , <b>2019</b> , 10, 522-537	5.7	11
20	Biofuels production of third generation biorefinery from macroalgal biomass in the Mexican context: An overview <b>2020</b> , 393-446		9
19	Hydrothermal Microwave Processing for Starch Extraction from Mexican Avocado Seeds: Operational Conditions and Characterization. <i>Processes</i> , <b>2020</b> , 8, 759	2.9	9
18	Enzymes in the third generation biorefinery for macroalgae biomass <b>2020</b> , 363-396		9
17	Tannases <b>2017</b> , 471-489		8
16	Hydrothermal Pretreatments of Macroalgal Biomass for Biorefineries <b>2015</b> , 467-491		7

15	Macroalgal biomass in terms of third-generation biorefinery concept: Current status and techno-economic analysis [A review]. <i>Bioresource Technology Reports</i> , <b>2021</b> , 16, 100863	4.1	6
14	Hydrothermal Processes for Extraction of Macroalgae High Value-Added Compounds <b>2017</b> , 461-481		6
13	Bioeconomy and Biorefinery: Valorization of Hemicellulose from Lignocellulosic Biomass and Potential Use of Avocado Residues as a Promising Resource of Bioproducts. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 141-170	0.8	6
12	Kinetic Modeling, Operational Conditions, and Biorefinery Products from Hemicellulose: Depolymerization and Solubilization During Hydrothermal Processing <b>2017</b> , 141-160		5
11	Hot Compressed Water Pretreatment and Surfactant Effect on Enzymatic Hydrolysis Using Agave Bagasse. <i>Energies</i> , <b>2021</b> , 14, 4746	3.1	5
10	Hydrothermal systems to obtain high value-added compounds from macroalgae for bioeconomy and biorefineries. <i>Bioresource Technology</i> , <b>2022</b> , 343, 126017	11	4
9	Sustainable Biorefinery Processing for Hemicellulose Fractionation and Bio-based Products in a Circular Bioeconomy. <i>Clean Energy Production Technologies</i> , <b>2022</b> , 39-69	0.8	2
8	Circular bioeconomy in the production of fucoxanthin from aquatic biomass: extraction and bioactivities. <i>Journal of Chemical Technology and Biotechnology</i> ,	3.5	2
7	Enzymatic Hydrolysis, Kinetic Modeling of Hemicellulose Fraction, and Energy Efficiency of Autohydrolysis Pretreatment Using Agave Bagasse. <i>Bioenergy Research</i> ,1	3.1	2
6	High-solids loading processing for an integrated lignocellulosic biorefinery: Effects of transport phenomena and rheology - A review.. <i>Bioresource Technology</i> , <b>2022</b> , 127044	11	2
5	Pectinolytic Enzymes <b>2017</b> , 47-71		1
4	Growth kinetics and quantification of carbohydrate, protein, lipids, and chlorophyll of <i>Spirulina platensis</i> under aqueous conditions using different carbon and nitrogen sources. <i>Bioresource Technology</i> , <b>2021</b> , 126456	11	1
3	Spontaneously fermented traditional beverages as a source of bioactive compounds: an overview. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2021</b> , 61, 2984-3006	11.5	1
2	Biorefinery Approach for Red Seaweeds Biomass as Source for Enzymes Production: Food and Biofuels Industry. <i>Energy, Environment, and Sustainability</i> , <b>2019</b> , 413-446	0.8	1
1	Third Generation Biorefineries Using Micro- and Macro-Algae. <i>Biofuels and Biorefineries</i> , <b>2022</b> , 373-411	0.3	1