Rosa M Rodrguez-Jasso

List of Publications by Year in Descending Order

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	Sustainable Biorefinery Processing for Hemicellulose Fractionation and Bio-based Products in a Circular Bioeconomy. *Clean Energy Production Technologies*, **2022**, 39-69	0.8	2
49	Hydrothermal systems to obtain high value-added compounds from macroalgae for bioeconomy and biorefineries. *Bioresource Technology*, **2022**, 343, 126017	11	4
48	High-solids loading processing for an integrated lignocellulosic biorefinery: Effects of transport phenomena and rheology - A review.. *Bioresource Technology*, **2022**, 127044	11	2
47	Third Generation Biorefineries Using Micro- and Macro-Algae. *Biofuels and Biorefineries*, **2022**, 373-411	0.3	1
46	Growth kinetics and quantification of carbohydrate, protein, lipids, and chlorophyll of Spirulina platensis under aqueous conditions using different carbon and nitrogen sources. *Bioresource Technology*, **2021**, 126456	11	1
45	Macroalgal biomass in terms of third-generation biorefinery concept: Current status and techno-economic analysis A review. *Bioresource Technology Reports*, **2021**, 16, 100863	4.1	6
44	Spontaneously fermented traditional beverages as a source of bioactive compounds: an overview. *Critical Reviews in Food Science and Nutrition*, **2021**, 61, 2984-3006	11.5	1
43	Circular bioeconomy and integrated biorefinery in the production of xylooligosaccharides from lignocellulosic biomass: A review. *Industrial Crops and Products*, **2021**, 162, 113274	5.9	46
42	Recovery of bioactive components from avocado peels using microwave-assisted extraction. *Food and Bioproducts Processing*, **2021**, 127, 152-161	4.9	16
41	High-pressure technology for Sargassum spp biomass pretreatment and fractionation in the third generation of bioethanol production. *Bioresource Technology*, **2021**, 329, 124935	11	24
40	Evaluation of functional and nutritional potential of a protein concentrate from Pleurotus ostreatus mushroom. *Food Chemistry*, **2021**, 346, 128884	8.5	14
39	Microbial co-culturing strategies for the production high value compounds, a reliable framework towards sustainable biorefinery implementation - an overview. *Bioresource Technology*, **2021**, 321, 124458	11	21
38	Hot Compressed Water Pretreatment and Surfactant Effect on Enzymatic Hydrolysis Using Agave Bagasse. *Energies*, **2021**, 14, 4746	3.1	5
37	Subcritical water pretreatment for agave bagasse fractionation from tequila production and enzymatic susceptibility. *Bioresource Technology*, **2021**, 338, 125536	11	16
36	Severity factor kinetic model as a strategic parameter of hydrothermal processing (steam explosion and liquid hot water) for biomass fractionation under biorefinery concept. *Bioresource Technology*, **2021**, 342, 125961	11	16
35	Biofuels production of third generation biorefinery from macroalgal biomass in the Mexican context: An overview **2020**, 393-446		9
34	Process optimization of microwave-assisted extraction of bioactive molecules from avocado seeds. *Industrial Crops and Products*, **2020**, 154, 112623	5.9	25

33	Engineering aspects of hydrothermal pretreatment: From batch to continuous operation, scale-up and pilot reactor under biorefinery concept. *Bioresource Technology*, **2020**, 299, 122685	11	136
32	Hydrothermal Microwave Processing for Starch Extraction from Mexican Avocado Seeds: Operational Conditions and Characterization. *Processes*, **2020**, 8, 759	2.9	9
31	Sustainable approach of high-pressure agave bagasse pretreatment for ethanol production. *Renewable Energy*, **2020**, 155, 1347-1354	8.1	22
30	Enzymes in the third generation biorefinery for macroalgae biomass **2020**, 363-396		9
29	Emerging strategies for the development of food industries. *Bioengineered*, **2019**, 10, 522-537	5.7	11
28	Enhancement and modeling of enzymatic hydrolysis on cellulose from agave bagasse hydrothermally pretreated in a horizontal bioreactor. *Carbohydrate Polymers*, **2019**, 211, 349-359	10.3	45
27	Biorefinery Approach for Red Seaweeds Biomass as Source for Enzymes Production: Food and Biofuels Industry. *Energy, Environment, and Sustainability*, **2019**, 413-446	0.8	1
26	Valorization of Grapefruit By-Products as Solid Support for Solid-State Fermentation to Produce Antioxidant Bioactive Extracts. *Waste and Biomass Valorization*, **2019**, 10, 763-769	3.2	12
25	Bioreactor design for enzymatic hydrolysis of biomass under the biorefinery concept. *Chemical Engineering Journal*, **2018**, 347, 119-136	14.7	87
24	Scale-up and evaluation of hydrothermal pretreatment in isothermal and non-isothermal regimen for bioethanol production using agave bagasse. *Bioresource Technology*, **2018**, 263, 112-119	11	54
23	Avocado by-products: Nutritional and functional properties. *Trends in Food Science and Technology*, **2018**, 80, 51-60	15.3	94
22	Microalgal biomass pretreatment for bioethanol production: a review. *Biofuel Research Journal*, **2018**, 5, 780-791	13.9	111
21	Bioeconomy and Biorefinery: Valorization of Hemicellulose from Lignocellulosic Biomass and Potential Use of Avocado Residues as a Promising Resource of Bioproducts. *Energy, Environment, and Sustainability*, **2018**, 141-170	0.8	6
20	Operational Strategies for Enzymatic Hydrolysis in a Biorefinery. *Biofuel and Biorefinery Technologies*, **2018**, 223-248	1	13
19	Microwave heating processing as alternative of pretreatment in second-generation biorefinery: An overview. *Energy Conversion and Management*, **2017**, 136, 50-65	10.6	184
18	Comparison of microwave and conduction-convection heating autohydrolysis pretreatment for bioethanol production. *Bioresource Technology*, **2017**, 243, 273-283	11	65
17	Pectinolytic Enzymes **2017**, 47-71		1
16	Tannases **2017**, 471-489		8

15	Hydrothermal Processes for Extraction of Macroalgae High Value-Added Compounds **2017**, 461-481		6
14	Kinetic Modeling, Operational Conditions, and Biorefinery Products from Hemicellulose: Depolymerization and Solubilization During Hydrothermal Processing **2017**, 141-160		5
13	Hydrothermal Pretreatments of Macroalgal Biomass for Biorefineries **2015**, 467-491		7
12	Chemical composition and antioxidant activity of sulphated polysaccharides extracted from Fucus vesiculosus using different hydrothermal processes. *Chemical Papers*, **2014**, 68,	1.9	44
11	Biorefinery valorization of autohydrolysis wheat straw hemicellulose to be applied in a polymer-blend film. *Carbohydrate Polymers*, **2013**, 92, 2154-62	10.3	88
10	Extraction of sulfated polysaccharides by autohydrolysis of brown seaweed Fucus vesiculosus. *Journal of Applied Phycology*, **2013**, 25, 31-39	3.2	51
9	Hydrothermal processing, as an alternative for upgrading agriculture residues and marine biomass according to the biorefinery concept: A review. *Renewable and Sustainable Energy Reviews*, **2013**, 21, 35-51	16.2	434
8	Fungal fucoidanase production by solid-state fermentation in a rotating drum bioreactor using algal biomass as substrate. *Food and Bioproducts Processing*, **2013**, 91, 587-594	4.9	33
7	Growth of fungal strains on coffee industry residues with removal of polyphenolic compounds. *Biochemical Engineering Journal*, **2012**, 60, 87-90	4.2	64
6	Pectinase production from lemon peel pomace as support and carbon source in solid-state fermentation column-tray bioreactor. *Biochemical Engineering Journal*, **2012**, 65, 90-95	4.2	97
5	Microwave-assisted extraction of sulfated polysaccharides (fucoidan) from brown seaweed. *Carbohydrate Polymers*, **2011**, 86, 1137-1144	10.3	262
4	Adaptation of dinitrosalicylic acid method to microtiter plates. *Analytical Methods*, **2010**, 2, 2046	3.2	91
3	Fucoidan-degrading fungal strains: screening, morphometric evaluation, and influence of medium composition. *Applied Biochemistry and Biotechnology*, **2010**, 162, 2177-88	3.2	34
2	Circular bioeconomy in the production of fucoxanthin from aquatic biomass: extraction and bioactivities. *Journal of Chemical Technology and Biotechnology*,	3.5	2
1	Enzymatic Hydrolysis, Kinetic Modeling of Hemicellulose Fraction, and Energy Efficiency of Autohydrolysis Pretreatment Using Agave Bagasse. *Bioenergy Research*,1	3.1	2