Valentin Santos Reyes

List of Publications by Year
in descending order

49 papers	1,198 citations	331670 21 h-index	377865 34 g-index
49 all docs	49 docs citations	49 times ranked	1494 citing authors

#	Article	IF	Citations
1	Furfural production using ionic liquids: A review. Bioresource Technology, 2016, 202, 181-191.	9.6	219
2	Furfural production from Eucalyptus wood using an Acidic Ionic Liquid. Carbohydrate Polymers, 2016, 146, 20-25.	10.2	68
3	Utilization of Ionic Liquids in Lignocellulose Biorefineries as Agents for Separation, Derivatization, Fractionation, or Pretreatment. Journal of Agricultural and Food Chemistry, 2015, 63, 8093-8102.	5.2	59
4	Kinetics of Catalyzed Organosolv Processing of Pine Wood. Industrial & Engineering Chemistry Research, 1995, 34, 4333-4342.	3.7	50
5	Sustainable conversion of Pinus pinaster wood into biofuel precursors: A biorefinery approach. Fuel, 2016, 164, 51-58.	6.4	42
6	Manufacture of fibrous reinforcements for biocomposites and hemicellulosic oligomers from bamboo. Chemical Engineering Journal, 2011, 167, 278-287.	12.7	37
7	Production of hemicellulosic sugars from Pinus pinaster wood by sequential steps of aqueous extraction and acid hydrolysis. Wood Science and Technology, 2012, 46, 271-285.	3.2	35
8	Technologies for Eucalyptus wood processing in the scope of biorefineries: A comprehensive review. Bioresource Technology, 2020, 311, 123528.	9.6	35
9	Sustainable Production of Levulinic Acid from the Cellulosic Fraction of<i>Pinus Pinaster</i>Wood: Operation in Aqueous Media Under Microwave Irradiation. Journal of Wood Chemistry and Technology, 2015, 35, 315-324.	1.7	30
10	Furfural production from birch hemicelluloses by two-step processing: a potential technology for biorefineries. Holzforschung, 2016, 70, 901-910.	1.9	30
11	Formic Acid-Peroxyformic Acid Pulping of<i>Fagus sylvatica</i>. Journal of Wood Chemistry and Technology, 2000, 20, 395-413.	1.7	29
12	Silane-treated lignocellulosic fibers as reinforcement material in polylactic acid biocomposites. Journal of Thermoplastic Composite Materials, 2012, 25, 1005-1022.	4.2	29
13	Furan manufacture from softwood hemicelluloses by aqueous fractionation and further reaction in a catalyzed ionic liquid: a biorefinery approach. Journal of Cleaner Production, 2014, 76, 200-203.	9.3	29
14	A Biorefinery Cascade Conversion of Hemicellulose-Free Eucalyptus Globulus Wood: Production of Concentrated Levulinic Acid Solutions for Î³-Valerolactone Sustainable Preparation. Catalysts, 2018, 8, 169.	3.5	29
15	Biorefinery processes for the valorization of Miscanthus polysaccharides: from constituent sugars to platform chemicals. Industrial Crops and Products, 2019, 134, 309-317.	5.2	29
16	Effects of hydrothermal processing on the cellulosic fraction of <i>Eucalyptus globulus</i> wood. Holzforschung, 2013, 67, 33-40.	1.9	27
17	Simulation of an Organosolv Pulping Process:Â Generalized Material Balances and Design Calculations. Industrial & Engineering Chemistry Research, 2003, 42, 349-356.	3.7	25
18	Rheological behaviour of carboxymethylcellulose manufactured from TCF-bleached Milox pulps. Food Hydrocolloids, 2005, 19, 313-320.	10.7	25

#	Article	IF	Citations
19	Furfural production in biphasic media using an acidic ionic liquid as a catalyst. Carbohydrate Polymers, 2016, 153, 421-428.	10.2	25
20	Acidic processing of hemicellulosic saccharides from pine wood: Product distribution and kinetic modeling. Bioresource Technology, 2014, 162, 192-199.	9.6	24
21	Manufacture of Levulinic Acid from Pine Wood Hemicelluloses: A Kinetic Assessment. Industrial & Engineering Chemistry Research, 2013, 52, 3951-3957.	3.7	22
22	Purification of oligosaccharides obtained from Pinus pinaster hemicelluloses by diafiltration. Desalination and Water Treatment, 2011, 27, 48-53.	1.0	20
23	Manufacture, Characterization, and Properties of Poly-(lactic acid) and its Blends with Esterified Pine Lignin. BioResources, 2016, 11, .	1.0	20
24	Fractionation of extracted hemicellulosic saccharides from Pinus pinaster wood by multistep membrane processing. Journal of Membrane Science, 2013, 428, 281-289.	8.2	19
25	Manufacture of Furfural from Xylan-containing Biomass by Acidic Processing of Hemicellulose-Derived Saccharides in Biphasic Media Using Microwave Heating. Journal of Wood Chemistry and Technology, 2018, 38, 198-213.	1.7	19
26	Aqueous processing of Pinus pinaster wood: Kinetics of polysaccharide breakdown. Chemical Engineering Journal, 2013, 231, 380-387.	12.7	18
27	Simulation of Acetosolv Pulping of<i>Eucalyptus</i>Wood. Journal of Wood Chemistry and Technology, 1999, 19, 225-246.	1.7	17
28	Optimization of beech wood pulping in catalyzed acetic acid media. Canadian Journal of Chemical Engineering, 2000, 78, 964-973.	1.7	17
29	Totally chlorine-free bleaching of Acetosolv pulps: a clean approach to dissolving pulp manufacture. Journal of Chemical Technology and Biotechnology, 2001, 76, 1117-1123.	3.2	17
30	Assesment on the chemical fractionation of Eucalyptus nitens wood: Characterization of the products derived from the structural components. Bioresource Technology, 2019, 281, 269-276.	9.6	17
31	Dissolving pulp from TCF bleached Acetosolv beech pulp. Journal of Chemical Technology and Biotechnology, 2004, 79, 1098-1104.	3.2	16
32	Production of furans from hemicellulosic saccharides in biphasic reaction systems. Holzforschung, 2013, 67, 923-929.	1.9	16
33	Manufacture of Microcrystalline Cellulose from<i>Eucalyptus globulus</i>Wood Using an Environmentally Friendly Biorefinery Method. Journal of Wood Chemistry and Technology, 2014, 34, 8-19.	1.7	16
34	Aqueous fractionation of hardwood: selective glucuronoxylan solubilisation and purification of the reaction products. Journal of Chemical Technology and Biotechnology, 2017, 92, 367-374.	3.2	13
35	Manufacture of fibrous reinforcements for biodegradable biocomposites from <i>Citysus scoparius</i>. Journal of Chemical Technology and Biotechnology, 2011, 86, 575-583.	3.2	11
36	Manufacture of Platform Chemicals from Pine Wood Polysaccharides in Media Containing Acidic Ionic Liquids. Polymers, 2020, 12, 1215.	4.5	10

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37	Characterization of Eucalyptus nitens Lignins Obtained by Biorefinery Methods Based on Ionic Liquids. Molecules, 2020, 25, 425.	3.8	10
38	Production of 5-Hydroxymethylfurfural from pine wood via biorefinery technologies based on fractionation and reaction in ionic liquids. BioResources, 2019, 14, 4733-4747.	1.0	9
39	One-Pot Processing of <i>Eucalyptus globulus</i> Wood under Microwave Heating: Simultaneous Delignification and Polysaccharide Conversion into Platform Chemicals. ACS Sustainable Chemistry and Engineering, 2020, 8, 10115-10124.	6.7	8
40	Delignification of autohydrolyzed wood in media containing water and a protic ionic liquid. Journal of Wood Chemistry and Technology, 2020, 40, 235-247.	1.7	7
41	Multistage Organosolv Pulping: A Method for Obtaining Pulps with Low Hemicellulose Contents. Collection of Czechoslovak Chemical Communications, 2003, 68, 1163-1174.	1.0	5
42	Multi-Stage Hydrothermal Processing of<i>Eucalyptus Globulus</i>Wood: An Experimental Assessment. Journal of Wood Chemistry and Technology, 2019, 39, 329-342.	1.7	4
43	Biomimetic Vanadate and Molybdate Systems for Oxidative Upgrading of Iono- and Organosolv Hard- and Softwood Lignins. Processes, 2020, 8, 1161.	2.8	3
44	Autocatalytic Fractionation of Wood Hemicelluloses: Modeling of Multistage Operation. Catalysts, 2020, 10, 337.	3.5	3
45	Performance of 1-(3-Sulfopropyl)-3-Methylimidazolium Hydrogen Sulfate as a Catalyst for Hardwood Upgrading into Bio-Based Platform Chemicals. Catalysts, 2020, 10, 937.	3.5	2
46	Evaluation of Acidic Ionic Liquids as Catalysts for Furfural Production from Eucalyptus nitens Wood. Molecules, 2022, 27, 4258.	3.8	2
47	Fractionation of <i>Eucalyptus regnans</i> wood: properties of the soluble products and reactivity of the treated solids. Journal of Wood Chemistry and Technology, 2022, 42, 46-57.	1.7	1
48	Assessment on the effects of the operational conditions on the manufacture of PLA-based composites using an integrated compoundingâ€“injection moulding machine. Collection of Czechoslovak Chemical Communications, 2011, 76, 1509-1527.	1.0	0
49	Deacetylation of Eucalyptus globulus Acetosolv Pulps in Aqueous Media: A Kinetic Study. Collection of Czechoslovak Chemical Communications, 2001, 66, 1443-1456.	1.0	0