

David Ibarra Trejo

List of Publications by Year in descending order

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70
papers

3,985
citations

101543
36
h-index

118850
62
g-index

70
all docs

70
docs citations

70
times ranked

3864
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin-enriched residues from bioethanol production: Chemical characterization, isocyanate functionalization and oil structuring properties. <i>International Journal of Biological Macromolecules</i> , 2022, 195, 412-423.	7.5	13
2	<i>Populus alba</i> L., an Autochthonous Species of Spain: A Source for Cellulose Nanofibers by Chemical Pretreatment. <i>Polymers</i> , 2022, 14, 68.	4.5	4
3	Tailoring the properties of nanocellulose-sepiolite hybrid nanopapers by varying the nanocellulose type and clay content. <i>Cellulose</i> , 2022, 29, 5265-5287.	4.9	8
4	Different Kraft lignin sources for electrospun nanostructures production: Influence of chemical structure and composition. <i>International Journal of Biological Macromolecules</i> , 2022, 214, 554-567.	7.5	17
5	Emulsion Stabilization by Cationic Lignin Surfactants Derived from Bioethanol Production and Kraft Pulping Processes. <i>Polymers</i> , 2022, 14, 2879.	4.5	1
6	Obtaining Fermentable Sugars from a Highly Productive Elm Clone Using Different Pretreatments. <i>Energies</i> , 2021, 14, 2415.	3.1	3
7	Chemical, Thermal and Antioxidant Properties of Lignins Solubilized during Soda/AQ Pulping of Orange and Olive Tree Pruning Residues. <i>Molecules</i> , 2021, 26, 3819.	3.8	12
8	Properties versus application requirements of solubilized lignins from an elm clone during different pre-treatments. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 99-111.	7.5	13
9	Production of Microfibrillated Cellulose from Fast-Growing Poplar and Olive Tree Pruning by Physical Pretreatment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6445.	2.5	9
10	Influence of Cellulose Characteristics on Pyrolysis Suitability. <i>Processes</i> , 2021, 9, 1584.	2.8	5
11	A sustainable methanol-based solvent exchange method to produce nanocellulose-based ecofriendly lubricants. <i>Journal of Cleaner Production</i> , 2021, 319, 128673.	9.3	11
12	Laccases as versatile enzymes: from industrial uses to novel applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 481-494.	3.2	71
13	Evaluation of lignin-enriched side-streams from different biomass conversion processes as thickeners in bio-lubricant formulations. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1398-1413.	7.5	30
14	Co-production of soluble sugars and lignin from short rotation white poplar and black locust crops. <i>Wood Science and Technology</i> , 2020, 54, 1617-1643.	3.2	16
15	Cellulose Nanofibers from a Dutch Elm Disease-Resistant <i>Ulmus minor</i> Clone. <i>Polymers</i> , 2020, 12, 2450.	4.5	17
16	Process Strategies for the Transition of 1G to Advanced Bioethanol Production. <i>Processes</i> , 2020, 8, 1310.	2.8	55
17	Chemical and thermal analysis of lignin streams from <i>Robinia pseudoacacia</i> L. generated during organosolv and acid hydrolysis pre-treatments and subsequent enzymatic hydrolysis. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 311-322.	7.5	23
18	Alternative Raw Materials for Pulp and Paper Production in the Concept of a Lignocellulosic Biorefinery. , 2019, , .		13

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19	Biorefinery of Lignocellulosic Biomass from an Elm Clone: Production of Fermentable Sugars and Lignin-Derived Biochar for Energy and Environmental Applications. <i>Energy Technology</i> , 2019, 7, 277-287.	3.8	24
20	Characterization of lignins from <i>Populus alba</i> L. generated as by-products in different transformation processes: Kraft pulping, organosolv and acid hydrolysis. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 18-29.	7.5	54
21	Assessing cellulose nanofiber production from olive tree pruning residue. <i>Carbohydrate Polymers</i> , 2018, 179, 252-261.	10.2	80
22	Production of Ethanol from Lignocellulosic Biomass. <i>Biofuels and Biorefineries</i> , 2017, , 375-410.	0.5	20
23	Comparison of the efficiency of bacterial and fungal laccases in delignification and detoxification of steam-pretreated lignocellulosic biomass for bioethanol production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 1561-1573.	3.0	50
24	Potential of different poplar clones for sugar production. <i>Wood Science and Technology</i> , 2017, 51, 669-684.	3.2	9
25	Evaluation of lignins from side-streams generated in an olive tree pruning-based biorefinery: Bioethanol production and alkaline pulping. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 238-251.	7.5	46
26	Potential of the new endophytic fungus <i>Hormonema</i> sp. CECT-13092 for improving processes in lignocellulosic biorefineries: biofuel production and cellulosic pulp manufacture. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 997-1005.	3.2	6
27	Laccases as a Potential Tool for the Efficient Conversion of Lignocellulosic Biomass: A Review. <i>Fermentation</i> , 2017, 3, 17.	3.0	85
28	Endophytic Fungi as Pretreatment to Enhance Enzymatic Hydrolysis of Olive Tree Pruning. <i>BioMed Research International</i> , 2017, 2017, 1-10.	1.9	12
29	Potential of Lignin-Degrading Endophytic Fungi on Lignocellulosic Biorefineries. <i>Sustainable Development and Biodiversity</i> , 2017, , 261-281.	1.7	4
30	A Bacterial Laccase for Enhancing Saccharification and Ethanol Fermentation of Steam-Pretreated Biomass. <i>Fermentation</i> , 2016, 2, 11.	3.0	36
31	Exploring laccase and mediators behavior during saccharification and fermentation of steam-exploded wheat straw for bioethanol production. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1816-1825.	3.2	32
32	Screening of eucalyptus wood endophytes for laccase activity. <i>Process Biochemistry</i> , 2016, 51, 589-598.	3.7	44
33	Chemical Modification by Impregnation of Poplar Wood with Functional Composite Modifier. <i>BioResources</i> , 2015, 10, .	1.0	6
34	Evaluating Lignin-Rich Residues from Biochemical Ethanol Production of Wheat Straw and Olive Tree Pruning by FTIR and 2D-NMR. <i>International Journal of Polymer Science</i> , 2015, 2015, 1-11.	2.7	58
35	Towards the improvement of <i>Eucalyptus globulus</i> chemical and mechanical pulping using endophytic fungi. <i>International Biodeterioration and Biodegradation</i> , 2015, 105, 120-126.	3.9	18
36	Use of new endophytic fungi as pretreatment to enhance enzymatic saccharification of <i>Eucalyptus globulus</i> . <i>Bioresource Technology</i> , 2015, 196, 383-390.	9.6	43

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37	Characterization of purified bacterial cellulose focused on its use on paper restoration. Carbohydrate Polymers, 2015, 116, 173-181.	10.2	86
38	A review of biological delignification and detoxification methods for lignocellulosic bioethanol production. Critical Reviews in Biotechnology, 2015, 35, 342-354.	9.0	151
39	Unraveling the effects of laccase treatment on enzymatic hydrolysis of steam-exploded wheat straw. Bioresource Technology, 2015, 175, 209-215.	9.6	47
40	Lignin-enriched Fermentation Residues from Bioethanol Production of Fast-growing Poplar and Forage Sorghum. BioResources, 2015, 10, .	1.0	18
41	Fed-batch SSCF using steam-exploded wheat straw at high dry matter consistencies and a xylose-fermenting <i>Saccharomyces cerevisiae</i> strain: effect of laccase supplementation. Biotechnology for Biofuels, 2013, 6, 160.	6.2	28
42	Ethanol from laccase-detoxified lignocellulose by the thermotolerant yeast <i>Kluyveromyces marxianus</i> —Effects of steam pretreatment conditions, process configurations and substrate loadings. Biochemical Engineering Journal, 2013, 79, 94-103.	3.6	34
43	Improving the fermentation performance of <i>saccharomyces cerevisiae</i> by laccase during ethanol production from steam-exploded wheat straw at high-substrate loadings. Biotechnology Progress, 2013, 29, 74-82.	2.6	61
44	In situ laccase treatment enhances the fermentability of steam-exploded wheat straw in SSCF processes at high dry matter consistencies. Bioresource Technology, 2013, 143, 337-343.	9.6	43
45	Comparing cell viability and ethanol fermentation of the thermotolerant yeast <i>Kluyveromyces marxianus</i> and <i>Saccharomyces cerevisiae</i> on steam-exploded biomass treated with laccase. Bioresource Technology, 2013, 135, 239-245.	9.6	61
46	Production of Dissolving Grade Pulps from Wood and Non-Wood Paper-Grade Pulps by Enzymatic and Chemical Pretreatments. ACS Symposium Series, 2012, , 167-189.	0.5	1
47	Different laccase detoxification strategies for ethanol production from lignocellulosic biomass by the thermotolerant yeast <i>Kluyveromyces marxianus</i> CECT 10875. Bioresource Technology, 2012, 106, 101-109.	9.6	89
48	Enzymatic deinking of secondary fibers: cellulases/hemicellulases versus laccase-mediator system. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 1-9.	3.0	62
49	Combination of alkaline and enzymatic treatments as a process for upgrading sisal paper-grade pulp to dissolving-grade pulp. Bioresource Technology, 2010, 101, 7416-7423.	9.6	79
50	Behavior of different monocomponent endoglucanases on the accessibility and reactivity of dissolving-grade pulps for viscose process. Enzyme and Microbial Technology, 2010, 47, 355-362.	3.2	72
51	Optimization of Treatments for the Conversion of Eucalyptus Kraft Pulp to Dissolving Pulp. Polymers From Renewable Resources, 2010, 1, 17-34.	1.3	2
52	Optimization of treatment sequences for the production of dissolving pulp from birch kraft pulp. Nordic Pulp and Paper Research Journal, 2010, 25, 31-38.	0.7	32
53	Exploring enzymatic treatments for the production of dissolving grade pulp from different wood and non-wood paper grade pulps 10 th EWLP, Stockholm, Sweden, August 25–28, 2008. Holzforschung, 2009, 63, 721-730.	1.9	33
54	Monolignol acylation and lignin structure in some nonwoody plants: A 2D NMR study. Phytochemistry, 2008, 69, 2831-2843.	2.9	197

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55	Highly Acylated (Acetylated and/or <i>p</i> -Coumaroylated) Native Lignins from Diverse Herbaceous Plants. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 9525-9534.	5.2	172
56	Structural characterization of milled wood lignins from different eucalypt species. <i>Holzforschung</i> , 2008, 62, 514-526.	1.9	147
57	Increasing accessibility and reactivity of paper grade pulp by enzymatic treatment for use as dissolving pulp. <i>Nordic Pulp and Paper Research Journal</i> , 2008, 23, 363-368.	0.7	56
58	Microscopy studies reveal delignification and sterol removal from eucalypt kraft pulps by laccase-HBT. <i>Biocatalysis and Biotransformation</i> , 2007, 25, 251-259.	2.0	8
59	Structural modification of eucalypt pulp lignin in a totally chlorine-free bleaching sequence including a laccase-mediator stage. <i>Holzforschung</i> , 2007, 61, 634-646.	1.9	62
60	Removal of Lipophilic Extractives from Paper Pulp by Laccase and Lignin-Derived Phenols as Natural Mediators. <i>Environmental Science & Technology</i> , 2007, 41, 4124-4129.	10.0	91
61	Lignin Modification during Eucalyptus globulus Kraft Pulping Followed by Totally Chlorine-Free Bleaching: A Two-Dimensional Nuclear Magnetic Resonance, Fourier Transform Infrared, and Pyrolysis-Gas Chromatography/Mass Spectrometry Study. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 3477-3490.	5.2	118
62	Paper pulp delignification using laccase and natural mediators. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1264-1271.	3.2	228
63	Composition of non-woody plant lignins and cinnamic acids by Py-GC/MS, Py/TMAH and FT-IR. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 79, 39-46.	5.5	167
64	Enzymatic Removal of Free and Conjugated Sterols Forming Pitch Deposits in Environmentally Sound Bleaching of Eucalypt Paper Pulp. <i>Environmental Science & Technology</i> , 2006, 40, 3416-3422.	10.0	47
65	Exploring the enzymatic parameters for optimal delignification of eucalypt pulp by laccase-mediator. <i>Enzyme and Microbial Technology</i> , 2006, 39, 1319-1327.	3.2	104
66	Main lipophilic extractives in different paper pulp types can be removed using the laccase-mediator system. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 845-851.	3.6	54
67	Integrating laccase-mediator treatment into an industrial-type sequence for totally chlorine-free bleaching of eucalypt kraft pulp. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1159-1165.	3.2	73
68	Chemical characterization of residual lignins from eucalypt paper pulps. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 116-122.	5.5	68
69	Lignin-Derived Compounds as Efficient Laccase Mediators for Decolorization of Different Types of Recalcitrant Dyes. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1775-1784.	3.1	508
70	Isolation of high-purity residual lignins from eucalypt paper pulps by cellulase and proteinase treatments followed by solvent extraction. <i>Enzyme and Microbial Technology</i> , 2004, 35, 173-181.	3.2	38