

David Ibarra Trejo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8618070/publications.pdf>

Version: 2024-02-01

70
papers

3,985
citations

101384

36
h-index

118652

62
g-index

70
all docs

70
docs citations

70
times ranked

3864
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.4	508
2	Paper pulp delignification using laccase and natural mediators. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1264-1271.	1.6	228
3	Monolignol acylation and lignin structure in some nonwoody plants: A 2D NMR study. <i>Phytochemistry</i> , 2008, 69, 2831-2843.	1.4	197
4	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.	2.4	172
5	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.	2.6	167
6	A review of biological delignification and detoxification methods for lignocellulosic bioethanol production. <i>Critical Reviews in Biotechnology</i> , 2015, 35, 342-354.	5.1	151
7	Structural characterization of milled wood lignins from different eucalypt species. <i>Holzforschung</i> , 2008, 62, 514-526.	0.9	147
8	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.	2.4	118
9	Exploring the enzymatic parameters for optimal delignification of eucalypt pulp by laccase-mediator. <i>Enzyme and Microbial Technology</i> , 2006, 39, 1319-1327.	1.6	104
10	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.	4.6	91
11	Different laccase detoxification strategies for ethanol production from lignocellulosic biomass by the thermotolerant yeast <i>Kluyveromyces marxianus</i> CECT 10875. <i>Bioresource Technology</i> , 2012, 106, 101-109.	4.8	89
12	Characterization of purified bacterial cellulose focused on its use on paper restoration. <i>Carbohydrate Polymers</i> , 2015, 116, 173-181.	5.1	86
13	Laccases as a Potential Tool for the Efficient Conversion of Lignocellulosic Biomass: A Review. <i>Fermentation</i> , 2017, 3, 17.	1.4	85
14	Assessing cellulose nanofiber production from olive tree pruning residue. <i>Carbohydrate Polymers</i> , 2018, 179, 252-261.	5.1	80
15	Combination of alkaline and enzymatic treatments as a process for upgrading sisal paper-grade pulp to dissolving-grade pulp. <i>Bioresource Technology</i> , 2010, 101, 7416-7423.	4.8	79
16	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.	1.6	73
17	Behavior of different monocomponent endoglucanases on the accessibility and reactivity of dissolving-grade pulps for viscose process. <i>Enzyme and Microbial Technology</i> , 2010, 47, 355-362.	1.6	72
18	Laccases as versatile enzymes: from industrial uses to novel applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 481-494.	1.6	71

#	ARTICLE	IF	CITATIONS
19	Chemical characterization of residual lignins from eucalypt paper pulps. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 116-122.	2.6	68
20	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.	0.9	62
21	Enzymatic deinking of secondary fibers: cellulases/hemicellulases versus laccase-mediator system. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 1-9.	1.4	62
22	Improving the fermentation performance of <i>saccharomyces cerevisiae</i> by laccase during ethanol production from steam-exploded wheat straw at high substrate loadings. <i>Biotechnology Progress</i> , 2013, 29, 74-82.	1.3	61
23	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. <i>Bioresource Technology</i> , 2013, 135, 239-245.	4.8	61
24	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.	1.2	58
25	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.	0.3	56
26	Process Strategies for the Transition of 1G to Advanced Bioethanol Production. <i>Processes</i> , 2020, 8, 1310.	1.3	55
27	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.	1.7	54
28	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.	3.6	54
29	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.	1.4	50
30	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.	4.6	47
31	Unraveling the effects of laccase treatment on enzymatic hydrolysis of steam-exploded wheat straw. <i>Bioresource Technology</i> , 2015, 175, 209-215.	4.8	47
32	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.	3.6	46
33	Screening of eucalyptus wood endophytes for laccase activity. <i>Process Biochemistry</i> , 2016, 51, 589-598.	1.8	44
34	In situ laccase treatment enhances the fermentability of steam-exploded wheat straw in SSCF processes at high dry matter consistencies. <i>Bioresource Technology</i> , 2013, 143, 337-343.	4.8	43
35	Use of new endophytic fungi as pretreatment to enhance enzymatic saccharification of <i>Eucalyptus globulus</i> . <i>Bioresource Technology</i> , 2015, 196, 383-390.	4.8	43
36	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.	1.6	38

#	ARTICLE	IF	CITATIONS
37	A Bacterial Laccase for Enhancing Saccharification and Ethanol Fermentation of Steam-Pretreated Biomass. <i>Fermentation</i> , 2016, 2, 11.	1.4	36
38	Ethanol from laccase-detoxified lignocellulose by the thermotolerant yeast <i>Kluyveromyces marxianus</i> —Effects of steam pretreatment conditions, process configurations and substrate loadings. <i>Biochemical Engineering Journal</i> , 2013, 79, 94-103.	1.8	34
39	Exploring enzymatic treatments for the production of dissolving grade pulp from different wood and non-wood paper grade pulps 10th EWLP, Stockholm, Sweden, August 25â€“28, 2008. <i>Holzforschung</i> , 2009, 63, 721-730.	0.9	33
40	Optimization of treatment sequences for the production of dissolving pulp from birch kraft pulp. <i>Nordic Pulp and Paper Research Journal</i> , 2010, 25, 31-38.	0.3	32
41	Exploring laccase and mediators behavior during saccharification and fermentation of steamâ€“exploded wheat straw for bioethanol production. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1816-1825.	1.6	32
42	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.	3.6	30
43	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. <i>Biotechnology for Biofuels</i> , 2013, 6, 160.	6.2	28
44	Biorefinery of Lignocellulosic Biomass from an Elm Clone: Production of Fermentable Sugars and Ligninâ€“Derived Biochar for Energy and Environmental Applications. <i>Energy Technology</i> , 2019, 7, 277-287.	1.8	24
45	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.	3.6	23
46	Production of Ethanol from Lignocellulosic Biomass. <i>Biofuels and Biorefineries</i> , 2017, , 375-410.	0.5	20
47	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.	1.9	18
48	Lignin-enriched Fermentation Residues from Bioethanol Production of Fast-growing Poplar and Forage Sorghum. <i>BioResources</i> , 2015, 10, .	0.5	18
49	Cellulose Nanofibers from a Dutch Elm Disease-Resistant <i>Ulmus minor</i> Clone. <i>Polymers</i> , 2020, 12, 2450.	2.0	17
50	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.	3.6	17
51	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.	1.4	16
52	Alternative Raw Materials for Pulp and Paper Production in the Concept of a Lignocellulosic Biorefinery. , 2019, , .		13
53	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.	3.6	13
54	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.	3.6	13

#	ARTICLE	IF	CITATIONS
55	Endophytic Fungi as Pretreatment to Enhance Enzymatic Hydrolysis of Olive Tree Pruning. <i>BioMed Research International</i> , 2017, 2017, 1-10.	0.9	12
56	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.	1.7	12
57	A sustainable methanol-based solvent exchange method to produce nanocellulose-based ecofriendly lubricants. <i>Journal of Cleaner Production</i> , 2021, 319, 128673.	4.6	11
58	Potential of different poplar clones for sugar production. <i>Wood Science and Technology</i> , 2017, 51, 669-684.	1.4	9
59	Production of Microfibrillated Cellulose from Fast-Growing Poplar and Olive Tree Pruning by Physical Pretreatment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6445.	1.3	9
60	Microscopy studies reveal delignification and sterol removal from eucalypt kraft pulps by laccase-HBT. <i>Biocatalysis and Biotransformation</i> , 2007, 25, 251-259.	1.1	8
61	Tailoring the properties of nanocellulose-sepiolite hybrid nanopapers by varying the nanocellulose type and clay content. <i>Cellulose</i> , 2022, 29, 5265-5287.	2.4	8
62	Chemical Modification by Impregnation of Poplar Wood with Functional Composite Modifier. <i>BioResources</i> , 2015, 10, .	0.5	6
63	Potential of the new endophytic fungus <i>Horomonemasp.</i> 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.	1.6	6
64	Influence of Cellulose Characteristics on Pyrolysis Suitability. <i>Processes</i> , 2021, 9, 1584.	1.3	5
65	Potential of Lignin-Degrading Endophytic Fungi on Lignocellulosic Biorefineries. <i>Sustainable Development and Biodiversity</i> , 2017, , 261-281.	1.4	4
66	<i>Populus alba</i> L., an Autochthonous Species of Spain: A Source for Cellulose Nanofibers by Chemical Pretreatment. <i>Polymers</i> , 2022, 14, 68.	2.0	4
67	Obtaining Fermentable Sugars from a Highly Productive Elm Clone Using Different Pretreatments. <i>Energies</i> , 2021, 14, 2415.	1.6	3
68	Optimization of Treatments for the Conversion of Eucalyptus Kraft Pulp to Dissolving Pulp. <i>Polymers From Renewable Resources</i> , 2010, 1, 17-34.	0.8	2
69	Production of Dissolving Grade Pulps from Wood and Non-Wood Paper-Grade Pulps by Enzymatic and Chemical Pretreatments. <i>ACS Symposium Series</i> , 2012, , 167-189.	0.5	1
70	Emulsion Stabilization by Cationic Lignin Surfactants Derived from Bioethanol Production and Kraft Pulping Processes. <i>Polymers</i> , 2022, 14, 2879.	2.0	1