

Ignacio Ballesteros Perdices

List of Publications by Year in descending order

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72
papers

4,847
citations

70961

41
h-index

98622

67
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all docs

72
docs citations

72
times ranked

4176
citing authors

#	ARTICLE	IF	CITATIONS
1	Ethanol from lignocellulosic materials by a simultaneous saccharification and fermentation process (SFS) with <i>Kluyveromyces marxianus</i> CECT 10875. <i>Process Biochemistry</i> , 2004, 39, 1843-1848.	1.8	434
2	Ethanol Production From Steam-Explosion Pretreated Wheat Straw. <i>Applied Biochemistry and Biotechnology</i> , 2006, 130, 496-508.	1.4	260
3	Enhanced enzymatic hydrolysis of olive tree wood by steam explosion and alkaline peroxide delignification. <i>Process Biochemistry</i> , 2006, 41, 423-429.	1.8	243
4	Optimizing Liquid Hot Water pretreatment conditions to enhance sugar recovery from wheat straw for fuel-ethanol production. <i>Fuel</i> , 2008, 87, 3640-3647.	3.4	236
5	Influence of solid loading on enzymatic hydrolysis of steam exploded or liquid hot water pretreated olive tree biomass. <i>Process Biochemistry</i> , 2007, 42, 1003-1009.	1.8	179
6	Hydrothermal Pretreatment Conditions to Enhance Ethanol Production from Poplar Biomass. <i>Applied Biochemistry and Biotechnology</i> , 2003, 105, 87-100.	1.4	152
7	Changes in various physical/chemical parameters of <i>Pinus pinaster</i> wood after steam explosion pretreatment. <i>Biomass and Bioenergy</i> , 2003, 25, 301-308.	2.9	150
8	Effect of Inhibitors Released During Steam-Explosion Pretreatment of Barley Straw on Enzymatic Hydrolysis. <i>Applied Biochemistry and Biotechnology</i> , 2006, 129, 278-288.	1.4	142
9	Enzymic hydrolysis of steam exploded herbaceous agricultural waste (<i>Brassica carinata</i>) at different particule sizes. <i>Process Biochemistry</i> , 2002, 38, 187-192.	1.8	138
10	Effect of Lignocellulosic Degradation Compounds from Steam Explosion Pretreatment on Ethanol Fermentation by Thermotolerant Yeast <i>Kluyveromyces marxianus</i> . <i>Applied Biochemistry and Biotechnology</i> , 2003, 105, 141-154.	1.4	118
11	Bioethanol production from wheat straw by the thermotolerant yeast <i>Kluyveromyces marxianus</i> CECT 10875 in a simultaneous saccharification and fermentation fed-batch process. <i>Fuel</i> , 2009, 88, 2142-2147.	3.4	110
12	The potential of agricultural banana waste for bioethanol production. <i>Fuel</i> , 2018, 213, 176-185.	3.4	99
13	Effect of process variables on liquid hot water pretreatment of wheat straw for bioconversion to fuel-ethanol in a batch reactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 929-938.	1.6	97
14	Effect of Chip Size on Steam Explosion Pretreatment of Softwood. <i>Applied Biochemistry and Biotechnology</i> , 2000, 84-86, 97-110.	1.4	95
15	Second-generation ethanol production from steam exploded barley straw by <i>Kluyveromyces marxianus</i> CECT 10875. <i>Fuel</i> , 2011, 90, 1624-1630.	3.4	88
16	Selection of thermotolerant yeasts for simultaneous saccharification and fermentation (SSF) of cellulose to ethanol. <i>Applied Biochemistry and Biotechnology</i> , 1991, 28-29, 307-315.	1.4	84
17	Optimized use of hemicellulose within a biorefinery for processing high value-added xylooligosaccharides. <i>Industrial Crops and Products</i> , 2017, 99, 41-48.	2.5	79
18	Dilute sulfuric acid pretreatment of cardoon for ethanol production. <i>Biochemical Engineering Journal</i> , 2008, 42, 84-91.	1.8	77

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19	Effect of water extraction on sugars recovery from steam exploded olive tree pruning. <i>Bioresource Technology</i> , 2011, 102, 6611-6616.	4.8	77
20	Optimization of uncatalyzed steam explosion pretreatment of rapeseed straw for biofuel production. <i>Bioresource Technology</i> , 2015, 190, 97-105.	4.8	77
21	Different process configurations for bioethanol production from pretreated olive pruning biomass. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 881-887.	1.6	74
22	Processing of extracted olive oil pomace residue by hydrothermal or dilute acid pretreatment and enzymatic hydrolysis in a biorefinery context. <i>Renewable Energy</i> , 2020, 145, 1235-1245.	4.3	73
23	Production, purification and characterisation of oligosaccharides from olive tree pruning autohydrolysis. <i>Industrial Crops and Products</i> , 2012, 40, 225-231.	2.5	70
24	Ethanol production from glucose and xylose obtained from steam exploded water-extracted olive tree pruning using phosphoric acid as catalyst. <i>Bioresource Technology</i> , 2014, 153, 101-107.	4.8	68
25	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 2002, 18, 559-561.	1.7	67
26	Steam Explosion for Wheat Straw Pretreatment for Sugars Production. <i>Bioethanol</i> , 2016, 2, .	1.2	65
27	Second generation bioethanol from steam exploded <i>Eucalyptus globulus</i> wood. <i>Fuel</i> , 2013, 111, 66-74.	3.4	64
28	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
29	Ethanol Production From Pretreated Olive Tree Wood and Sunflower Stalks by an SSF Process. <i>Applied Biochemistry and Biotechnology</i> , 2006, 130, 631-643.	1.4	59
30	Ethanol Production from Lignocellulosic Byproducts of Olive Oil Extraction. <i>Applied Biochemistry and Biotechnology</i> , 2001, 91-93, 237-252.	1.4	56
31	Effects of acetic acid, furfural and catechol combinations on ethanol fermentation of <i>Kluyveromyces marxianus</i> . <i>Process Biochemistry</i> , 2006, 41, 1223-1228.	1.8	56
32	Ethanol Production from the Organic Fraction Obtained After Thermal Pretreatment of Municipal Solid Waste. <i>Applied Biochemistry and Biotechnology</i> , 2010, 161, 423-431.	1.4	55
33	Valorisation of olive stone by-product for sugar production using a sequential acid/steam explosion pretreatment. <i>Industrial Crops and Products</i> , 2020, 148, 112279.	2.5	55
34	Xylanase contribution to the efficiency of cellulose enzymatic hydrolysis of barley straw. <i>Applied Biochemistry and Biotechnology</i> , 2007, 137-140, 353-365.	1.4	54
35	Effect of Binary Combinations of Selected Toxic Compounds on Growth and Fermentation of <i>Kluyveromyces marxianus</i> . <i>Biotechnology Progress</i> , 2004, 20, 715-720.	1.3	49
36	Optimization of integrated alkaline extrusion pretreatment of barley straw for sugar production by enzymatic hydrolysis. <i>Process Biochemistry</i> , 2013, 48, 775-781.	1.8	49

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37	A Sequential Steam Explosion and Reactive Extrusion Pretreatment for Lignocellulosic Biomass Conversion within a Fermentation-Based Biorefinery Perspective. <i>Fermentation</i> , 2017, 3, 15.	1.4	48
38	Sugar production from barley straw biomass pretreated by combined alkali and enzymatic extrusion. <i>Bioresource Technology</i> , 2014, 158, 262-268.	4.8	47
39	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
40	Ethanol Production from Olive Oil Extraction Residue Pretreated with Hot Water. <i>Applied Biochemistry and Biotechnology</i> , 2002, 98-100, 717-732.	1.4	43
41	High-solids content enzymatic hydrolysis of hydrothermally pretreated sugarcane bagasse using a laboratory-made enzyme blend and commercial preparations. <i>Process Biochemistry</i> , 2016, 51, 1561-1567.	1.8	42
42	Effect of surfactants and zeolites on simultaneous saccharification and fermentation of steam-exploded poplar biomass to ethanol. <i>Applied Biochemistry and Biotechnology</i> , 1998, 70-72, 369-381.	1.4	40
43	Impact of temperature and photoperiod on anaerobic biodegradability of microalgae grown in urban wastewater. <i>International Biodeterioration and Biodegradation</i> , 2016, 106, 16-23.	1.9	40
44	Inulin-Containing Biomass for Ethanol Production <i>Carbohydrate Extraction and Ethanol Fermentation</i>. <i>Applied Biochemistry and Biotechnology</i> , 2006, 132, 922-932.	1.4	39
45	Optimal conditions of acid-catalysed steam explosion pretreatment of banana lignocellulosic biomass for fermentable sugar production. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2351-2359.	1.6	39
46	Optimization of the simultaneous saccharification and fermentation process using thermotolerant yeasts. <i>Applied Biochemistry and Biotechnology</i> , 1993, 39-40, 201-211.	1.4	36
47	Integral process assessment of sugarcane agricultural crop residues conversion to ethanol. <i>Bioresource Technology</i> , 2018, 260, 241-247.	4.8	36
48	Hydrothermal Pretreatment Conditions to Enhance Ethanol Production from Poplar Biomass. , 2003, , 87-100.		34
49	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
50	Ethanol Production from Sugarcane Bagasse Pretreated by Steam Explosion. <i>Electronic Journal of Energy & Environment</i> , 2013, 1, .	0.3	33
51	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass. <i>Industrial Crops and Products</i> , 2015, 74, 336-341.	2.5	31
52	Integrated production of second generation ethanol and lactic acid from steam-exploded elephant grass. <i>Bioresource Technology</i> , 2018, 249, 1017-1024.	4.8	31
53	Study of process configuration and catalyst concentration in integrated alkaline extrusion of barley straw for bioethanol production. <i>Fuel</i> , 2014, 134, 448-454.	3.4	30
54	Biological conversion of forage sorghum biomass to ethanol by steam explosion pretreatment and simultaneous hydrolysis and fermentation at high solid content. <i>Biomass Conversion and Biorefinery</i> , 2012, 2, 123-132.	2.9	28

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55	Towards sequential bioethanol and l-lactic acid co-generation: Improving xylose conversion to l-lactic acid in presence of lignocellulosic ethanol with an evolved <i>Bacillus coagulans</i> . <i>Renewable Energy</i> , 2020, 153, 759-765.	4.3	28
56	Ethanol Production From Steam-Explosion Pretreated Wheat Straw. , 2006, , 496-508.		27
57	Production of xylooligosaccharides, bioethanol, and lignin from structural components of barley straw pretreated with a steam explosion. <i>Bioresource Technology</i> , 2021, 342, 125953.	4.8	23
58	Efficient utilization of hydrolysates from steam-exploded gardening residues for lactic acid production by optimization of enzyme addition and pH control. <i>Waste Management</i> , 2020, 107, 235-243.	3.7	22
59	Enzymatic hydrolysis from carbohydrates of barley straw pretreated by ionic liquids. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 937-941.	1.6	20
60	Production of xylooligosaccharides and cellulosic ethanol from steam-exploded barley straw. <i>Holzforchung</i> , 2018, 73, 35-44.	0.9	18
61	Lignin-enriched Fermentation Residues from Bioethanol Production of Fast-growing Poplar and Forage Sorghum. <i>BioResources</i> , 2015, 10, .	0.5	18
62	Bioprocessing of rice husk into monosaccharides and the fermentative production of bioethanol and lactate. <i>Cellulose</i> , 2019, 26, 7309-7322.	2.4	16
63	Sugars Production from Municipal Forestry and Greening Wastes Pretreated by an Integrated Steam Explosion-Based Process. <i>Energies</i> , 2020, 13, 4432.	1.6	15
64	Fractionation of <i>Cynara cardunculus</i> (cardoon) biomass by dilute-acid pretreatment. <i>Applied Biochemistry and Biotechnology</i> , 2007, 137-140, 239-252.	1.4	14
65	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
66	Effect of media supplementation on ethanol production by simultaneous saccharification and fermentation process. <i>Applied Biochemistry and Biotechnology</i> , 1994, 45-46, 283-294.	1.4	11
67	Valorization of Greenhouse Horticulture Waste from a Biorefinery Perspective. <i>Foods</i> , 2021, 10, 814.	1.9	10
68	Effect of Inhibitors Released During Steam-Explosion Pretreatment of Barley Straw on Enzymatic Hydrolysis. , 2006, , 278-288.		7
69	Ethanol Production from Olive Oil Extraction Residue Pretreated with Hot Water. , 2002, , 717-732.		6
70	Optimisation of Uncatalysed Steam Explosion of Lignocellulosic Biomasses to Obtain Both C6- and C5-Sugars. <i>Waste and Biomass Valorization</i> , 2020, 11, 231-244.	1.8	6
71	Simultaneous saccharification and fermentation process for converting the cellulosic fraction of olive oil extraction residue into ethanol.. <i>Grasas Y Aceites</i> , 2002, 53, .	0.3	4
72	Xylanase Contribution to the Efficiency of Cellulose Enzymatic Hydrolysis of Barley Straw. , 2007, , 353-365.		2