Ignacio Ballesteros Perdices

List of Publications by Year
in descending order

72 papers	4,847 citations	71102 41 h-index	98798 67 g-index
72 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 Kluyveromyces marxianus CECT 10875. Process Biochemistry, 2004, 39, 1843-1848.	3.7	434
2	Ethanol Production From Steam-Explosion Pretreated Wheat Straw. Applied Biochemistry and Biotechnology, 2006, 130, 496-508.	2.9	260
3	Enhanced enzymatic hydrolysis of olive tree wood by steam explosion and alkaline peroxide delignification. Process Biochemistry, 2006, 41, 423-429.	3.7	243
4	Optimizing Liquid Hot Water pretreatment conditions to enhance sugar recovery from wheat straw for fuel-ethanol production. Fuel, 2008, 87, 3640-3647.	6.4	236
5	Influence of solid loading on enzymatic hydrolysis of steam exploded or liquid hot water pretreated olive tree biomass. Process Biochemistry, 2007, 42, 1003-1009.	3.7	179
6	Hydrothermal Pretreatment Conditions to Enhance Ethanol Production from Poplar Biomass. Applied Biochemistry and Biotechnology, 2003, 105, 87-100.	2.9	152
7	Changes in various physical/chemical parameters of Pinus pinaster wood after steam explosion pretreatment. Biomass and Bioenergy, 2003, 25, 301-308.	5.7	150
8	Effect of Inhibitors Released During Steam-Explosion Pretreatment of Barley Straw on Enzymatic Hydrolysis. Applied Biochemistry and Biotechnology, 2006, 129, 278-288.	2.9	142
9	Enzymic hydrolysis of steam exploded herbaceous agricultural waste (Brassica carinata) at different particule sizes. Process Biochemistry, 2002, 38, 187-192.	3.7	138
10	Effect of Lignocellulosic Degradation Compounds from Steam Explosion Pretreatment on Ethanol Fermentation by Thermotolerant Yeast Kluyveromyces marxianus. Applied Biochemistry and Biotechnology, 2003, 105, 141-154.	2.9	118
11	Bioethanol production from wheat straw by the thermotolerant yeast Kluyveromyces marxianus CECT 10875 in a simultaneous saccharification and fermentation fed-batch process. Fuel, 2009, 88, 2142-2147.	6.4	110
12	The potential of agricultural banana waste for bioethanol production. Fuel, 2018, 213, 176-185.	6.4	99
13	Effect of process variables on liquid hot water pretreatment of wheat straw for bioconversion to fuelâ€ethanol in a batch reactor. Journal of Chemical Technology and Biotechnology, 2007, 82, 929-938.	3.2	97
14	Effect of Chip Size on Steam Explosion Pretreatment of Softwood. Applied Biochemistry and Biotechnology, 2000, 84-86, 97-110.	2.9	95
15	Second-generation ethanol production from steam exploded barley straw by Kluyveromyces marxianus CECT 10875. Fuel, 2011, 90, 1624-1630.	6.4	88
16	Selection of thermotolerant yeasts for simultaneous saccharification and fermentation (SSF) of cellulose to ethanol. Applied Biochemistry and Biotechnology, 1991, 28-29, 307-315.	2.9	84
17	Optimized use of hemicellulose within a biorefinery for processing high value-added xylooligosaccharides. Industrial Crops and Products, 2017, 99, 41-48.	5.2	79
18	Dilute sulfuric acid pretreatment of cardoon for ethanol production. Biochemical Engineering Journal, 2008, 42, 84-91.	3.6	77

#	Article	IF	Citations
19	Effect of water extraction on sugars recovery from steam exploded olive tree pruning. Bioresource Technology, 2011, 102, 6611-6616.	9.6	77
20	Optimization of uncatalyzed steam explosion pretreatment of rapeseed straw for biofuel production. Bioresource Technology, 2015, 190, 97-105.	9.6	77
21	Different process configurations for bioethanol production from pretreated olive pruning biomass. Journal of Chemical Technology and Biotechnology, 2011, 86, 881-887.	3.2	74
22	Processing of extracted olive oil pomace residue by hydrothermal or dilute acid pretreatment and enzymatic hydrolysis in a biorefinery context. Renewable Energy, 2020, 145, 1235-1245.	8.9	73
23	Production, purification and characterisation of oligosaccharides from olive tree pruning autohydrolysis. Industrial Crops and Products, 2012, 40, 225-231.	5.2	70
24	Ethanol production from glucose and xylose obtained from steam exploded water-extracted olive tree pruning using phosphoric acid as catalyst. Bioresource Technology, 2014, 153, 101-107.	9.6	68
25	Title is missing!. World Journal of Microbiology and Biotechnology, 2002, 18, 559-561.	3.6	67
26	Steam Explosion for Wheat Straw Pretreatment for Sugars Production. Bioethanol, 2016, 2, .	1.2	65
27	Second generation bioethanol from steam exploded Eucalyptus globulus wood. Fuel, 2013, 111, 66-74.	6.4	64
28	Comparing cell viability and ethanol fermentation of the thermotolerant yeast Kluyveromyces marxianus and Saccharomyces cerevisiae on steam-exploded biomass treated with laccase. Bioresource Technology, 2013, 135, 239-245.	9.6	61
29	Ethanol Production From Pretreated Olive Tree Wood and Sunflower Stalks by an SSF Process. Applied Biochemistry and Biotechnology, 2006, 130, 631-643.	2.9	59
30	Ethanol Production from Lignocellulosic Byproducts of Olive Oil Extraction. Applied Biochemistry and Biotechnology, 2001, 91-93, 237-252.	2.9	56
31	Effects of acetic acid, furfural and catechol combinations on ethanol fermentation of Kluyveromyces marxianus. Process Biochemistry, 2006, 41, 1223-1228.	3.7	56
32	Ethanol Production from the Organic Fraction Obtained After Thermal Pretreatment of Municipal Solid Waste. Applied Biochemistry and Biotechnology, 2010, 161, 423-431.	2.9	55
33	Valorisation of olive stone by-product for sugar production using a sequential acid/steam explosion pretreatment. Industrial Crops and Products, 2020, 148, 112279.	5.2	55
34	Xylanase contribution to the efficiency of cellulose enzymatic hydrolysis of barley straw. Applied Biochemistry and Biotechnology, 2007, 137-140, 353-365.	2.9	54
35	Effect of Binary Combinations of Selected Toxic Compounds on Growth and Fermentation of Kluyveromyces marxianus. Biotechnology Progress, 2004, 20, 715-720.	2.6	49
36	Optimization of integrated alkalineâ€“extrusion pretreatment of barley straw for sugar production by enzymatic hydrolysis. Process Biochemistry, 2013, 48, 775-781.	3.7	49

#	Article	IF	Citations
37	A Sequential Steam Explosion and Reactive Extrusion Pretreatment for Lignocellulosic Biomass Conversion within a Fermentation-Based Biorefinery Perspective. Fermentation, 2017, 3, 15.	3.0	48
38	Sugar production from barley straw biomass pretreated by combined alkali and enzymatic extrusion. Bioresource Technology, 2014, 158, 262-268.	9.6	47
39	Evaluation of lignins from side-streams generated in an olive tree pruning-based biorefinery: Bioethanol production and alkaline pulping. International Journal of Biological Macromolecules, 2017, 105, 238-251.	7.5	46
40	Ethanol Production from Olive Oil Extraction Residue Pretreated with Hot Water. Applied Biochemistry and Biotechnology, 2002, 98-100, 717-732.	2.9	43
41	High-solids content enzymatic hydrolysis of hydrothermally pretreated sugarcane bagasse using a laboratory-made enzyme blend and commercial preparations. Process Biochemistry, 2016, 51, 1561-1567.	3.7	42
42	Effect of surfactants and zeolites on simultaneous saccharification and fermentation of steam-exploded poplar biomass to ethanol. Applied Biochemistry and Biotechnology, 1998, 70-72, 369-381.	2.9	40
43	Impact of temperature and photoperiod on anaerobic biodegradability of microalgae grown in urban wastewater. International Biodeterioration and Biodegradation, 2016, 106, 16-23.	3.9	40
44	Inulin-Containing Biomass for Ethanol Production Carbohydrate Extraction and Ethanol Fermentation. Applied Biochemistry and Biotechnology, 2006, 132, 922-932.	2.9	39
45	Optimal conditions of acidâ€catalysed steam explosion pretreatment of banana lignocellulosic biomass for fermentable sugar production. Journal of Chemical Technology and Biotechnology, 2017, 92, 2351-2359.	3.2	39
46	Optimization of the simultaneous saccharification and fermentation process using thermotolerant yeasts. Applied Biochemistry and Biotechnology, 1993, 39-40, 201-211.	2.9	36
47	Integral process assessment of sugarcane agricultural crop residues conversion to ethanol. Bioresource Technology, 2018, 260, 241-247.	9.6	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 Kluyveromyces marxianusâ€"Effects of steam pretreatment conditions, process configurations and substrate loadings. Biochemical Engineering Journal, 2013, 79, 94-103.	3.6	34
50	Ethanol Production from Sugarcane Bagasse Pretreated by Steam Explosion. Electronic Journal of Energy & Environment, 2013, 1, .	0.3	33
51	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass. Industrial Crops and Products, 2015, 74, 336-341.	5.2	31
52	Integrated production of second generation ethanol and lactic acid from steam-exploded elephant grass. Bioresource Technology, 2018, 249, 1017-1024.	9.6	31
53	Study of process configuration and catalyst concentration in integrated alkaline extrusion of barley straw for bioethanol production. Fuel, 2014, 134, 448-454.	6.4	30
54	Biological conversion of forage sorghum biomass to ethanol by steam explosion pretreatment and simultaneous hydrolysis and fermentation at high solid content. Biomass Conversion and Biorefinery, 2012, 2, 123-132.	4.6	28

#	Article	IF	Citations
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 Bacillus coagulans. Renewable Energy, 2020, 153, 759-765.	8.9	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. Bioresource Technology, 2021, 342, 125953.	9.6	23
58	Efficient utilization of hydrolysates from steam-exploded gardening residues for lactic acid production by optimization of enzyme addition and pH control. Waste Management, 2020, 107, 235-243.	7.4	22
59	Enzymatic hydrolysis from carbohydrates ofâ€‰barley straw pretreated by ionic liquids. Journal of Chemical Technology and Biotechnology, 2013, 88, 937-941.	3.2	20
60	Production of xylooligosaccharides and cellulosic ethanol from steam-exploded barley straw. Holzforschung, 2018, 73, 35-44.	1.9	18
61	Lignin-enriched Fermentation Residues from Bioethanol Production of Fast-growing Poplar and Forage Sorghum. BioResources, 2015, 10, .	1.0	18
62	Bioprocessing of rice husk into monosaccharides and the fermentative production of bioethanol and lactate. Cellulose, 2019, 26, 7309-7322.	4.9	16
63	Sugars Production from Municipal Forestry and Greening Wastes Pretreated by an Integrated Steam Explosion-Based Process. Energies, 2020, 13, 4432.	3.1	15
64	Fractionation of Cynara cardunculus (cardoon) biomass by dilute-acid pretreatment. Applied Biochemistry and Biotechnology, 2007, 137-140, 239-252.	2.9	14
65	Lignin-enriched residues from bioethanol production: Chemical characterization, isocyanate functionalization and oil structuring properties. International Journal of Biological Macromolecules, 2022, 195, 412-423.	7.5	13
66	Effect of media supplementation on ethanol production by simultaneous saccharification and fermentation process. Applied Biochemistry and Biotechnology, 1994, 45-46, 283-294.	2.9	11
67	Valorization of Greenhouse Horticulture Waste from a Biorefinery Perspective. Foods, 2021, 10, 814.	4.3	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. Waste and Biomass Valorization, 2020, 11, 231-244.	3.4	6
71	Simultaneous saccharification and fermentation process for converting the cellulosic fraction of olive oil extraction residue into ethanol.. Grasas Y Aceites, 2002, 53, .	0.9	4
72	Xylanase Contribution to the Efficiency of Cellulose Enzymatic Hydrolysis of Barley Straw. , 2007, , 353-365.		2