

Elia Tomàs-Pejó³

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

5,826
citations

201674

27
h-index

144013

57
g-index

61
all docs

61
docs citations

61
times ranked

6418
citing authors

#	ARTICLE	IF	CITATIONS
1	Pretreatment technologies for an efficient bioethanol production process based on enzymatic hydrolysis: A review. <i>Bioresource Technology</i> , 2010, 101, 4851-4861.	9.6	3,203
2	Lignocellulosic ethanol production at high-gravity: challenges and perspectives. <i>Trends in Biotechnology</i> , 2014, 32, 46-53.	9.3	305
3	Comparison of SHF and SSF processes from steam-exploded wheat straw for ethanol production by xylose-fermenting and robust glucose-fermenting <i>Saccharomyces cerevisiae</i> strains. <i>Biotechnology and Bioengineering</i> , 2008, 100, 1122-1131.	3.3	204
4	A review of biological delignification and detoxification methods for lignocellulosic bioethanol production. <i>Critical Reviews in Biotechnology</i> , 2015, 35, 342-354.	9.0	151
5	Enzymatic cell disruption of microalgae biomass in biorefinery processes. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1955-1966.	3.3	142
6	Biotechnological advances in lactic acid production by lactic acid bacteria: lignocellulose as novel substrate. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 290-303.	3.7	124
7	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.	6.4	110
8	Laccases as a Potential Tool for the Efficient Conversion of Lignocellulosic Biomass: A Review. <i>Fermentation</i> , 2017, 3, 17.	3.0	85
9	Agroindustrial waste as a resource for volatile fatty acids production via anaerobic fermentation. <i>Bioresource Technology</i> , 2020, 297, 122486.	9.6	77
10	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
11	Adaptation of the xylose fermenting yeast <i>Saccharomyces cerevisiae</i> F12 for improving ethanol production in different fed-batch SSF processes. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010, 37, 1211-1220.	3.0	70
12	Pretreatment Technologies for Lignocellulose-to-Bioethanol Conversion. , 2011, , 149-176.		61
13	Valorization of steam-exploded wheat straw through a biorefinery approach: Bioethanol and bio-oil co-production. <i>Fuel</i> , 2017, 199, 403-412.	6.4	58
14	Effect of different cellulase dosages on cell viability and ethanol production by <i>Kluyveromyces marxianus</i> in SSF processes. <i>Bioresource Technology</i> , 2009, 100, 890-895.	9.6	56
15	Evolutionary engineering of <i>Lactobacillus pentosus</i> improves lactic acid productivity from xylose-rich media at low pH. <i>Bioresource Technology</i> , 2019, 288, 121540.	9.6	56
16	Short-term adaptation during propagation improves the performance of xylose-fermenting <i>Saccharomyces cerevisiae</i> in simultaneous saccharification and co-fermentation. <i>Biotechnology for Biofuels</i> , 2015, 8, 219.	6.2	50
17	Screening of oleaginous yeasts for lipid production using volatile fatty acids as substrate. <i>Biomass and Bioenergy</i> , 2020, 138, 105553.	5.7	50
18	Volatile fatty acids as novel building blocks for oil-based chemistry via oleaginous yeast fermentation. <i>Biotechnology and Bioengineering</i> , 2020, 117, 238-250.	3.3	49

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19	Unraveling the effects of laccase treatment on enzymatic hydrolysis of steam-exploded wheat straw. <i>Bioresource Technology</i> , 2015, 175, 209-215.	9.6	47
20	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.	9.6	43
21	Microbial lipids from organic wastes: Outlook and challenges. <i>Bioresource Technology</i> , 2021, 323, 124612.	9.6	43
22	Influence of enzymatic hydrolysis on the biochemical methane potential of <i>Chlorella vulgaris</i> and <i>Scenedesmus</i> sp.. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1299-1305.	3.2	41
23	Phenols and lignin: Key players in reducing enzymatic hydrolysis yields of steam-pretreated biomass in presence of laccase. <i>Journal of Biotechnology</i> , 2016, 218, 94-101.	3.8	40
24	Short-chain fatty acids and hydrogen production in one single anaerobic fermentation stage using carbohydrate-rich food waste. <i>Journal of Cleaner Production</i> , 2021, 284, 124727.	9.3	39
25	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
26	Sequential bioethanol and methane production from municipal solid waste: An integrated biorefinery strategy towards cost-effectiveness. <i>Chemical Engineering Research and Design</i> , 2021, 146, 424-431.	5.6	30
27	Assessment of different <i>Bacillus coagulans</i> strains for L-lactic acid production from defined media and gardening hydrolysates: Effect of lignocellulosic inhibitors. <i>Journal of Biotechnology</i> , 2020, 323, 9-16.	3.8	29
28	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
29	Influence of the propagation strategy for obtaining robust <i>Saccharomyces cerevisiae</i> cells that efficiently co-ferment xylose and glucose in lignocellulosic hydrolysates. <i>Microbial Biotechnology</i> , 2015, 8, 999-1005.	4.2	28
30	Inhibition of cellulose enzymatic hydrolysis by laccase-derived compounds from phenols. <i>Biotechnology Progress</i> , 2015, 31, 700-706.	2.6	28
31	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.	8.9	28
32	VOLATILE FATTY ACIDS FROM ORGANIC WASTES AS NOVEL LOW-COST CARBON SOURCE FOR <i>Yarrowia lipolytica</i> . <i>New Biotechnology</i> , 2020, 56, 123-129.	4.4	28
33	Comparison of <i>Chlorella vulgaris</i> and cyanobacterial biomass: cultivation in urban wastewater and methane production. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 703-712.	3.4	26
34	Semicontinuous anaerobic digestion of protease pretreated <i>Chlorella</i> biomass for volatile fatty acids production. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1861-1869.	3.2	24
35	Tuning microbial community in non-conventional two-stage anaerobic bioprocess for microalgae biomass valorization into targeted bioproducts. <i>Bioresource Technology</i> , 2021, 337, 125387.	9.6	24
36	Industrial yeasts strains for biorefinery solutions: Constructing and selecting efficient barcoded xylose fermenting strains for ethanol. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 626-634.	3.7	23

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37	<i>Lactobacillus pentosus</i> CECT 4023 T co-utilizes glucose and xylose to produce lactic acid from wheat straw hydrolysate: Anaerobiosis as a key factor. <i>Biotechnology Progress</i> , 2019, 35, e2739.	2.6	23
38	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.	7.4	22
39	Strategies of xylanase supplementation for an efficient saccharification and cofermentation process from pretreated wheat straw. <i>Biotechnology Progress</i> , 2011, 27, 944-950.	2.6	21
40	Production of Ethanol from Lignocellulosic Biomass. <i>Biofuels and Biorefineries</i> , 2017, , 375-410.	0.5	20
41	Insoluble solids at high concentrations repress yeast's response against stress and increase intracellular ROS levels. <i>Scientific Reports</i> , 2019, 9, 12236.	3.3	20
42	Insights on the microbial communities developed during the anaerobic fermentation of raw and pretreated microalgae biomass. <i>Chemosphere</i> , 2021, 263, 127942.	8.2	20
43	Volatile fatty acids production from protease pretreated <i>Chlorella</i> biomass via anaerobic digestion. <i>Biotechnology Progress</i> , 2018, 34, 1363-1369.	2.6	19
44	Effect of nutrient addition on preinoculum growth of <i>S. cerevisiae</i> for application in SSF processes. <i>Biomass and Bioenergy</i> , 2012, 45, 168-174.	5.7	18
45	Microalgae-based anaerobic fermentation as a promising technology for producing biogas and microbial oils. <i>Energy</i> , 2020, 206, 118184.	8.8	18
46	Pretreatment Technologies for Lignocellulosic Biomass Deconstruction Within a Biorefinery Perspective. , 2019, , 379-399.		16
47	Life cycle assessment of volatile fatty acids production from protein- and carbohydrate-rich organic wastes. <i>Bioresource Technology</i> , 2021, 321, 124528.	9.6	16
48	Carboxylic acids production via anaerobic fermentation: Microbial communities' responses to stepwise and direct hydraulic retention time decrease. <i>Bioresource Technology</i> , 2022, 344, 126282.	9.6	16
49	Unraveling the potential of non-conventional yeasts in biotechnology. <i>FEMS Yeast Research</i> , 2022, 22, .	2.3	15
50	Statistical correlation between waste macromolecular composition and anaerobic fermentation temperature for specific short-chain fatty acid production. <i>Environmental Research</i> , 2022, 206, 112288.	7.5	14
51	Prevailing acid determines the efficiency of oleaginous fermentation from volatile fatty acids. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107354.	6.7	12
52	Volatile Fatty Acids Production from Microalgae Biomass: Anaerobic Digester Performance and Population Dynamics during Stable Conditions, Starvation, and Process Recovery. <i>Molecules</i> , 2019, 24, 4544.	3.8	9
53	Assessing the relevance of acidic pH on primary intermediate compounds when targeting at carboxylate accumulation. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4519-4529.	4.6	9
54	Effect of microalgae storage conditions on methane yields. <i>Environmental Science and Pollution Research</i> , 2018, 25, 14263-14270.	5.3	6

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55	Biogas and Volatile Fatty Acids Production: Temperature as a Determining Factor in the Anaerobic Digestion of <i>Spirulina platensis</i> . <i>Waste and Biomass Valorization</i> , 2019, 10, 2507-2515.	3.4	6
56	Key role of fluorescence quantum yield in Nile Red staining method for determining intracellular lipids in yeast strains. , 2022, 15, 37.		6
57	Microalgae production for nitrogen recovery of high-strength dry anaerobic digestion effluent. <i>Waste Management</i> , 2022, 139, 321-329.	7.4	5
58	Optimization of the laccase detoxification step in hybrid hydrolysis and fermentation processes from wheat straw by <i>K. marxianus</i> CECT 10875. <i>Bioethanol</i> , 2016, 2, .	1.2	4
59	<i>Candida intermedia</i> CBS 141442: A Novel Glucose/Xylose Co-Fermenting Isolate for Lignocellulosic Bioethanol Production. <i>Energies</i> , 2020, 13, 5363.	3.1	4
60	Insights into cell robustness against lignocellulosic inhibitors and insoluble solids in bioethanol production processes. <i>Scientific Reports</i> , 2022, 12, 557.	3.3	4
61	Hydrothermal Processing of Microalgae. , 2017, , 483-500.		0