

Aloia RomanÃ-

List of Publications by Year in descending order

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75
papers

3,638
citations

125106

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58
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all docs

76
docs citations

76
times ranked

3664
citing authors

#	ARTICLE	IF	CITATIONS
1	Current breakthroughs in the hardwood biorefineries: Hydrothermal processing for the co-production of xylooligosaccharides and bioethanol. <i>Bioresource Technology</i> , 2022, 343, 126100.	4.8	31
2	Integrated technologies for extractives recovery, fractionation, and bioethanol production from lignocellulose. , 2022, , 107-139.		1
3	Whole Cell Biocatalysis of 5-Hydroxymethylfurfural for Sustainable Biorefineries. <i>Catalysts</i> , 2022, 12, 202.	1.6	13
4	Current Options in the Valorisation of Vine Pruning Residue for the Production of Biofuels, Biopolymers, Antioxidants, and Bio-Composites following the Concept of Biorefinery: A Review. <i>Polymers</i> , 2022, 14, 1640.	2.0	19
5	Resveratrol production for the valorisation of lactose-rich wastes by engineered industrial <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2022, 359, 127463.	4.8	13
6	Co-production of biofuels and value-added compounds from industrial <i>Eucalyptus globulus</i> bark residues using hydrothermal treatment. <i>Fuel</i> , 2021, 285, 119265.	3.4	29
7	Biotechnological Advancements, Innovations and Challenges for Sustainable Xylitol Production by Yeast. , 2021, , 420-427.		4
8	Alternative Lime Pretreatment of Corn Stover for Second-Generation Bioethanol Production. <i>Agronomy</i> , 2021, 11, 155.	1.3	8
9	Hemicellulosic Bioethanol Production from Fast-Growing <i>Paulownia</i> Biomass. <i>Processes</i> , 2021, 9, 173.	1.3	14
10	Evaluation of sustainable technologies for the processing of <i>Sargassum muticum</i> : cascade biorefinery schemes. <i>Green Chemistry</i> , 2021, 23, 7001-7015.	4.6	6
11	Resveratrol Production from Hydrothermally Pretreated <i>Eucalyptus</i> Wood Using Recombinant Industrial <i>Saccharomyces cerevisiae</i> Strains. <i>ACS Synthetic Biology</i> , 2021, 10, 1895-1903.	1.9	17
12	Cell surface engineering of <i>Saccharomyces cerevisiae</i> for simultaneous valorization of corn cob and cheese whey via ethanol production. <i>Energy Conversion and Management</i> , 2021, 243, 114359.	4.4	27
13	L-lactic acid production from multi-supply autohydrolyzed economically unexploited lignocellulosic biomass. <i>Industrial Crops and Products</i> , 2021, 170, 113775.	2.5	18
14	Fast-growing <i>Paulownia</i> wood fractionation by microwave-assisted hydrothermal treatment: A kinetic assessment. <i>Bioresource Technology</i> , 2021, 338, 125535.	4.8	13
15	Galactose to tagatose isomerization by the l-arabinose isomerase from <i>Bacillus subtilis</i> : A biorefinery approach for <i>Gelidium sesquipedale</i> valorisation. <i>LWT - Food Science and Technology</i> , 2021, 151, 112199.	2.5	16
16	Microwave hydrothermal processing of the invasive macroalgae <i>Sargassum muticum</i> within a green biorefinery scheme. <i>Bioresource Technology</i> , 2021, 340, 125733.	4.8	22
17	Engineering aspects of hydrothermal pretreatment: From batch to continuous operation, scale-up and pilot reactor under biorefinery concept. <i>Bioresource Technology</i> , 2020, 299, 122685.	4.8	236
18	Recent trends on seaweed fractionation for liquid biofuels production. <i>Bioresource Technology</i> , 2020, 299, 122613.	4.8	83

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19	Development of a sustainable bioprocess based on green technologies for xylitol production from corn cob. <i>Industrial Crops and Products</i> , 2020, 156, 112867.	2.5	38
20	A Whole-Slurry Fermentation Approach to High-Solid Loading for Bioethanol Production from Corn Stover. <i>Agronomy</i> , 2020, 10, 1790.	1.3	18
21	Valorization of Seaweed Carbohydrates: Autohydrolysis as a Selective and Sustainable Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17143-17153.	3.2	27
22	Consolidated bioprocessing of corn cob-derived hemicellulose: engineered industrial <i>Saccharomyces cerevisiae</i> as efficient whole cell biocatalysts. <i>Biotechnology for Biofuels</i> , 2020, 13, 138.	6.2	56
23	Nanocellulose Production: Exploring the Enzymatic Route and Residues of Pulp and Paper Industry. <i>Molecules</i> , 2020, 25, 3411.	1.7	101
24	Sequential two-stage autohydrolysis biorefinery for the production of bioethanol from fast-growing Paulownia biomass. <i>Energy Conversion and Management</i> , 2020, 226, 113517.	4.4	22
25	Formosolv Pretreatment to Fractionate Paulownia Wood Following a Biorefinery Approach: Isolation and Characterization of the Lignin Fraction. <i>Agronomy</i> , 2020, 10, 1205.	1.3	9
26	Aqueous solutions of deep eutectic systems as reaction media for the saccharification and fermentation of hardwood xylan into xylitol. <i>Bioresource Technology</i> , 2020, 311, 123524.	4.8	32
27	Valorization of lignocellulosic-based wastes. , 2020, , 383-410.		11
28	Comparative study of biorefinery processes for the valorization of fast-growing Paulownia wood. <i>Bioresource Technology</i> , 2020, 314, 123722.	4.8	27
29	Microbial lipids from industrial wastes using xylose-utilizing <i>Ashbya gossypii</i> strains. <i>Bioresource Technology</i> , 2019, 293, 122054.	4.8	20
30	Xylose fermentation efficiency of industrial <i>Saccharomyces cerevisiae</i> yeast with separate or combined xylose reductase/xylitol dehydrogenase and xylose isomerase pathways. <i>Biotechnology for Biofuels</i> , 2019, 12, 20.	6.2	114
31	Intensifying ethanol production from brewer's spent grain waste: Use of whole slurry at high solid loadings. <i>New Biotechnology</i> , 2019, 53, 1-8.	2.4	49
32	Third generation bioethanol from invasive macroalgae <i>Sargassum muticum</i> using autohydrolysis pretreatment as first step of a biorefinery. <i>Renewable Energy</i> , 2019, 141, 728-735.	4.3	59
33	Bioactive compounds recovery optimization from vine pruning residues using conventional heating and microwave-assisted extraction methods. <i>Industrial Crops and Products</i> , 2019, 132, 99-110.	2.5	59
34	Valorization of <i>Eucalyptus nitens</i> bark by organosolv pretreatment for the production of advanced biofuels. <i>Industrial Crops and Products</i> , 2019, 132, 327-335.	2.5	59
35	Molecular and physiological basis of <i>Saccharomyces cerevisiae</i> tolerance to adverse lignocellulose-based process conditions. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 159-175.	1.7	104
36	Recombinant family 3 carbohydrate-binding module as a new additive for enhanced enzymatic saccharification of whole slurry from autohydrolyzed <i>Eucalyptus globulus</i> wood. <i>Cellulose</i> , 2018, 25, 2505-2514.	2.4	14

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37	HAA1 and PRS3 overexpression boosts yeast tolerance towards acetic acid improving xylose or glucose consumption: unravelling the underlying mechanisms. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 4589-4600.	1.7	54
38	Valorization of pineapple waste for the extraction of bioactive compounds and glycosides using autohydrolysis. <i>Innovative Food Science and Emerging Technologies</i> , 2018, 47, 38-45.	2.7	53
39	Boosting bioethanol production from Eucalyptus wood by whey incorporation. <i>Bioresource Technology</i> , 2018, 250, 256-264.	4.8	47
40	Comparative autohydrolysis study of two mixtures of forest and marginal land resources for co-production of biofuels and value-added compounds. <i>Renewable Energy</i> , 2018, 128, 20-29.	4.3	33
41	Xylitol production from lignocellulosic whole slurry corn cob by engineered industrial <i>Saccharomyces cerevisiae</i> PE-2. <i>Bioresource Technology</i> , 2018, 267, 481-491.	4.8	67
42	Valorization of Wastes From Agrofood and Pulp and Paper Industries Within the Biorefinery Concept: Southwestern Europe Scenario. , 2018, , 487-504.		10
43	Microwave heating processing as alternative of pretreatment in second-generation biorefinery: An overview. <i>Energy Conversion and Management</i> , 2017, 136, 50-65.	4.4	251
44	Evaluation of strategies for second generation bioethanol production from fast growing biomass <i>Paulownia</i> within a biorefinery scheme. <i>Applied Energy</i> , 2017, 187, 777-789.	5.1	70
45	Comparison of microwave and conduction-convection heating autohydrolysis pretreatment for bioethanol production. <i>Bioresource Technology</i> , 2017, 243, 273-283.	4.8	91
46	Integrated approach for selecting efficient <i>Saccharomyces cerevisiae</i> for industrial lignocellulosic fermentations: Importance of yeast chassis linked to process conditions. <i>Bioresource Technology</i> , 2017, 227, 24-34.	4.8	66
47	Integral valorization of vine pruning residue by sequential autohydrolysis stages. <i>Journal of Cleaner Production</i> , 2017, 168, 74-86.	4.6	72
48	Production of Hemicellulases, Xylitol, and Furan from Hemicellulosic Hydrolysates Using Hydrothermal Pretreatment. , 2017, , 285-315.		5
49	Second-generation bioethanol of hydrothermally pretreated stover biomass from maize genotypes. <i>Biomass and Bioenergy</i> , 2016, 90, 42-49.	2.9	11
50	Valorization of Eucalyptus wood by glycerol-organosolv pretreatment within the biorefinery concept: An integrated and intensified approach. <i>Renewable Energy</i> , 2016, 95, 1-9.	4.3	65
51	Compositional features and bioactive properties of whole fraction from Aloe vera processing. <i>Industrial Crops and Products</i> , 2016, 91, 179-185.	2.5	30
52	Combined alkali and hydrothermal pretreatments for oat straw valorization within a biorefinery concept. <i>Bioresource Technology</i> , 2016, 220, 323-332.	4.8	45
53	Simultaneous Saccharification and Fermentation of Hydrothermal Pretreated Lignocellulosic Biomass: Evaluation of Process Performance Under Multiple Stress Conditions. <i>Bioenergy Research</i> , 2016, 9, 750-762.	2.2	21
54	Contribution of PRS3, RPB4 and ZWF1 to the resistance of industrial <i>Saccharomyces cerevisiae</i> CCUG53310 and PE-2 strains to lignocellulosic hydrolysate-derived inhibitors. <i>Bioresource Technology</i> , 2015, 191, 7-16.	4.8	50

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55	Metabolic engineering of <i>Saccharomyces cerevisiae</i> ethanol strains PE-2 and CAT-1 for efficient lignocellulosic fermentation. <i>Bioresource Technology</i> , 2015, 179, 150-158.	4.8	74
56	Biomass, sugar, and bioethanol potential of sweet corn. <i>GCB Bioenergy</i> , 2015, 7, 153-160.	2.5	27
57	Lignocellulosic bioethanol production with revalorization of low-cost agroindustrial by-products as nutritional supplements. <i>Industrial Crops and Products</i> , 2015, 64, 16-24.	2.5	32
58	Integrated approach for effective bioethanol production using whole slurry from autohydrolyzed <i>Eucalyptus globulus</i> wood at high-solid loadings. <i>Fuel</i> , 2014, 135, 482-491.	3.4	67
59	Effect of hemicellulose liquid phase on the enzymatic hydrolysis of autohydrolyzed <i>Eucalyptus globulus</i> wood. <i>Biomass Conversion and Biorefinery</i> , 2014, 4, 77-86.	2.9	23
60	Industrial robust yeast isolates with great potential for fermentation of lignocellulosic biomass. <i>Bioresource Technology</i> , 2014, 161, 192-199.	4.8	90
61	A biorefinery approach based on fractionation with a cheap industrial by-product for getting value from an invasive woody species. <i>Bioresource Technology</i> , 2014, 173, 301-308.	4.8	13
62	Second generation bioethanol from steam exploded <i>Eucalyptus globulus</i> wood. <i>Fuel</i> , 2013, 111, 66-74.	3.4	64
63	Fractionation of <i>Eucalyptus globulus</i> Wood by Glycerol-Water Pretreatment: Optimization and Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14342-14352.	1.8	37
64	Invasive biomass valorization: environmentally friendly processes for obtaining second generation bioethanol and saccharides from <i>Ulex europaeus</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 999-1006.	1.6	12
65	Extracting value-added products before pulping: Hemicellulosic ethanol from <i>Eucalyptus globulus</i> wood. <i>Holzforschung</i> , 2012, 66, 591-599.	0.9	43
66	Potential of hydrothermal treatments in lignocellulose biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2012, 6, 219-232.	1.9	109
67	Bioethanol production from autohydrolyzed <i>Eucalyptus globulus</i> by Simultaneous Saccharification and Fermentation operating at high solids loading. <i>Fuel</i> , 2012, 94, 305-312.	3.4	86
68	Fermentative production of fumaric acid from <i>Eucalyptus globulus</i> wood hydrolyzates. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1036-1040.	1.6	22
69	<i>Eucalyptus globulus</i> wood fractionation by autohydrolysis and organosolv delignification. <i>Bioresource Technology</i> , 2011, 102, 5896-5904.	4.8	147
70	Bioethanol production from hydrothermally pretreated <i>Eucalyptus globulus</i> wood. <i>Bioresource Technology</i> , 2010, 101, 8706-8712.	4.8	168
71	Experimental Assessment on the Enzymatic Hydrolysis of Hydrothermally Pretreated <i>Eucalyptus globulus</i> Wood. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 4653-4663.	1.8	47
72	Experimental evaluation of alkaline treatment as a method for enhancing the enzymatic digestibility of autohydrolysed <i>Acacia dealbata</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 1070-1077.	1.6	24

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73	Processing of <i>Acacia dealbata</i> in Aqueous Media: First Step of a Wood Biorefinery. Industrial & Engineering Chemistry Research, 2009, 48, 6618-6626.	1.8	51
74	SSF production of lactic acid from cellulosic biosludges. Bioresource Technology, 2008, 99, 4247-4254.	4.8	62
75	Sugar production from cellulosic biosludges generated in a water treatment plant of a Kraft pulp mill. Biochemical Engineering Journal, 2007, 37, 319-327.	1.8	10