

Aline C Costa

List of Publications by Year in descending order

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87
papers

2,457
citations

185998

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214527

47
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89
all docs

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docs citations

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times ranked

2694
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#	ARTICLE	IF	CITATIONS
1	Adaptation Strategy to Increase the Tolerance of <i>Scheffersomyces stipitis</i> NRRL Y-7124 to Inhibitors of Sugarcane Bagasse Hemicellulosic Hydrolysate Through Comparative Studies of Proteomics and Fermentation. <i>Bioenergy Research</i> , 2022, 15, 479-492.	2.2	7
2	Fermentation strategies to improve propionic acid production with <i>propionibacterium</i> ssp.: a review. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 1157-1179.	5.1	4
3	Pretreatment of sugarcane bagasse by OX $\text{\textcircled{B}}$ to enhancing the enzymatic hydrolysis for ethanol fermentation. <i>Journal of Food Process Engineering</i> , 2021, 44, e13579.	1.5	4
4	Influence of chain length in protic ionic liquids on physicochemical and structural features of lignins from sugarcane bagasse. <i>Industrial Crops and Products</i> , 2021, 159, 113080.	2.5	7
5	Continuous production of enzymes under carbon-limited conditions by <i>Trichoderma harzianum</i> P49P11. <i>Fungal Biology</i> , 2021, 125, 177-183.	1.1	4
6	A critical assessment of the Flory-Huggins (FH) theory to predict aqueous two-phase behaviour. <i>Separation and Purification Technology</i> , 2021, 255, 117636.	3.9	7
7	Secretome analysis as a tool to elucidate bacterial contamination influence during second-generation ethanol production in a Melle-Boinot process. <i>FEMS Yeast Research</i> , 2021, 21, .	1.1	0
8	Exploiting the Non-conventional Yeast <i>Spathaspora passalidarum</i> as a Platform for Hemicellulosic Hydrolysate Conversion into Bioproducts: a Mini Review. <i>Bioenergy Research</i> , 2021, 14, 689-708.	2.2	9
9	A possible influence of extracellular polysaccharides on the analysis of intracellular metabolites from <i>Trichoderma harzianum</i> grown under carbon-limited conditions. <i>Fungal Biology</i> , 2021, 125, 368-377.	1.1	4
10	In-depth process parameter investigation into a protic ionic liquid pretreatment for 2G ethanol production. <i>Renewable Energy</i> , 2021, 172, 816-828.	4.3	21
11	Dynamic Modeling Application To Evaluate the Performance of <i>Spathaspora passalidarum</i> in Second-Generation Ethanol Production: Parametric Dynamics and the Likelihood Confidence Region. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13822-13833.	1.8	4
12	The water consumption of sugarcane bagasse post-washing after protic ionic liquid pretreatment and its impact on 2G ethanol production. <i>Industrial Crops and Products</i> , 2021, 169, 113642.	2.5	13
13	Structural features of protic ionic liquids and their impact on pretreatment performance for 2G ethanol production. <i>Energy</i> , 2021, 235, 121279.	4.5	7
14	Effect of Protic Ionic Liquids in Sugar Cane Bagasse Pretreatment for Lignin Valorization and Ethanol Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16965-16976.	3.2	7
15	Mathematical modelling for the optimization of cellulase production using glycerol for cell growth and cellulose as the inducer substrate. <i>Chemical Engineering Science: X</i> , 2020, 8, 100085.	1.5	3
16	Impact of the Melle-Boinot process on the enhancement of second-generation ethanol production by <i>Spathaspora passalidarum</i> . <i>Renewable Energy</i> , 2020, 160, 1206-1216.	4.3	19
17	Enzymatic Hydrolysis of Sugarcane Bagasse in Aqueous Two-Phase Systems (ATPS): Exploration and Conceptual Process Design. <i>Frontiers in Chemistry</i> , 2020, 8, 587.	1.8	6
18	Structural characterization of sugarcane lignins extracted from different protic ionic liquid pretreatments. <i>Renewable Energy</i> , 2020, 161, 579-592.	4.3	42

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19	Analysis of the proteins secreted by <i>Trichoderma harzianum</i> P49P11 under carbon-limited conditions. <i>Journal of Proteomics</i> , 2020, 227, 103922.	1.2	3
20	Investigation of hemicellulosic hydrolysate inhibitor resistance and fermentation strategies to overcome inhibition in non-saccharomyces species. <i>Biomass and Bioenergy</i> , 2020, 137, 105549.	2.9	37
21	Interplay of Acid-Base Ratio and Recycling on the Pretreatment Performance of the Protic Ionic Liquid Monoethanolammonium Acetate. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7952-7961.	3.2	36
22	A differential evolution approach to estimate parameters in a temperature-dependent kinetic model for second generation ethanol production under high cell density with <i>Spathaspora passalidarum</i> . <i>Biochemical Engineering Journal</i> , 2020, 161, 107586.	1.8	15
23	Redox potential as a key parameter for monitoring and optimization of xylose fermentation with yeast <i>Spathaspora passalidarum</i> under limited-oxygen conditions. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1509-1519.	1.7	27
24	A robotic platform to screen aqueous two-phase systems for overcoming inhibition in enzymatic reactions. <i>Bioresource Technology</i> , 2019, 280, 37-50.	4.8	8
25	Batch and fed-batch enzymatic hydrolysis of pretreated sugarcane bagasse – Assays and modeling. <i>Fuel</i> , 2019, 253, 392-399.	3.4	32
26	Effect of contamination with <i>Lactobacillus fermentum</i> I2 on ethanol production by <i>Spathaspora passalidarum</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5039-5050.	1.7	9
27	Online monitoring of the redox potential in microaerobic and anaerobic <i>Scheffersomyces stipitis</i> fermentations. <i>Biotechnology Letters</i> , 2019, 41, 753-761.	1.1	8
28	Screening of protic ionic liquids for sugarcane bagasse pretreatment. <i>Fuel</i> , 2019, 235, 1506-1514.	3.4	66
29	Fermentation strategy for second generation ethanol production from sugarcane bagasse hydrolyzate by <i>Spathaspora passalidarum</i> and <i>Scheffersomyces stipitis</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 2211-2221.	1.7	80
30	Liquid-liquid equilibrium in systems used for the production of 5-hydroxymethylfurfural from biomass using alcohols as solvents. <i>Journal of Chemical Thermodynamics</i> , 2017, 111, 80-87.	1.0	16
31	Kinetic Study of the Acid Post-hydrolysis of Xylooligosaccharides from Hydrothermal Pretreatment. <i>Bioenergy Research</i> , 2017, 10, 1045-1056.	2.2	10
32	Evaluation of the use of protic ionic liquids on biomass fractionation. <i>Fuel</i> , 2017, 206, 145-154.	3.4	72
33	Potassium biphthalate buffer for pH control to optimize glycosyl hydrolase production in shake flasks using filamentous fungi. <i>Brazilian Journal of Chemical Engineering</i> , 2017, 34, 439-450.	0.7	4
34	Acid post-hydrolysis of xylooligosaccharides from hydrothermal pretreatment for pentose ethanol production. <i>Fuel</i> , 2016, 185, 73-84.	3.4	33
35	Bioethanol production by recycled <i>Scheffersomyces stipitis</i> in sequential batch fermentations with high cell density using xylose and glucose mixture. <i>Bioresource Technology</i> , 2016, 219, 319-329.	4.8	45
36	CONTINUOUS AND SEMICONTINUOUS REACTION SYSTEMS FOR HIGH-SOLIDS ENZYMATIc HYDROLYSIS OF LIGNOCELLULOSICS. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 805-819.	0.7	7

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37	Effects of the pretreatment method on high solids enzymatic hydrolysis and ethanol fermentation of the cellulosic fraction of sugarcane bagasse. <i>Bioresource Technology</i> , 2015, 191, 312-321.	4.8	82
38	Improvement on sugar cane bagasse hydrolysis using enzymatic mixture designed cocktail. <i>Bioresource Technology</i> , 2015, 187, 173-181.	4.8	49
39	Mathematical modeling of enzyme production using <i>Trichoderma harzianum</i> P49P11 and sugarcane bagasse as carbon source. <i>Bioresource Technology</i> , 2015, 198, 101-107.	4.8	15
40	Adsorption characteristics of cellulase and β -glucosidase on Avicel, pretreated sugarcane bagasse, and lignin. <i>Biotechnology and Applied Biochemistry</i> , 2015, 62, 681-689.	1.4	30
41	Alkaline hydrogen peroxide pretreatment, enzymatic hydrolysis and fermentation of sugarcane bagasse to ethanol. <i>Fuel</i> , 2014, 136, 349-357.	3.4	98
42	Lime Pretreatment and Fermentation of Enzymatically Hydrolyzed Sugarcane Bagasse. <i>Applied Biochemistry and Biotechnology</i> , 2013, 169, 1696-1712.	1.4	30
43	Study of kinetic parameters in a mechanistic model for enzymatic hydrolysis of sugarcane bagasse subjected to different pretreatments. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 1579-1590.	1.7	19
44	Kinetics of ethanol production from sugarcane bagasse enzymatic hydrolysate concentrated with molasses under cell recycle. <i>Bioresource Technology</i> , 2013, 130, 351-359.	4.8	37
45	Evaluation of the alcoholic fermentation kinetics of enzymatic hydrolysates from sugarcane bagasse (<i>Saccharum officinarum</i> L.). <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1049-1057.	1.6	10
46	Enhancement of methane production from sunflower oil cakes by dilute acid pretreatment. <i>Applied Energy</i> , 2013, 102, 1105-1113.	5.1	121
47	Production of bioethanol, methane and heat from sugarcane bagasse in a biorefinery concept. <i>Bioresource Technology</i> , 2011, 102, 7887-7895.	4.8	308
48	Kinetics of Lime Pretreatment of Sugarcane Bagasse to Enhance Enzymatic Hydrolysis. <i>Applied Biochemistry and Biotechnology</i> , 2011, 163, 612-625.	1.4	31
49	Ethanol production from enzymatic hydrolysis of sugarcane bagasse pretreated with lime and alkaline hydrogen peroxide. <i>Biomass and Bioenergy</i> , 2011, 35, 2600-2607.	2.9	130
50	Analysis of conversion and operation strategies for enzymatic hydrolysis of lignocellulosic biomass in a series of CSTRs with distributed feeding. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 901-910.	1.7	11
51	Enzymatic hydrolysis of sugarcane bagasse for bioethanol production: determining optimal enzyme loading using neural networks. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 983-992.	1.6	48
52	Development of real-time state estimators for reaction-separation processes: A continuous flash fermentation as a study case. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 402-409.	1.8	12
53	A LabVIEW-based intelligent system for monitoring of bioprocesses. <i>Computer Aided Chemical Engineering</i> , 2009, , 309-314.	0.3	6
54	Soft-Sensor for Real-Time Estimation of Ethanol Concentration in Continuous Flash Fermentation. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 1653-1658.	0.3	1

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55	Study of kinetic parameters in a mechanistic model for bioethanol production through a screening technique and optimization. <i>Bioprocess and Biosystems Engineering</i> , 2009, 32, 673-680.	1.7	18
56	Lime Pretreatment of Sugarcane Bagasse for Bioethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2009, 153, 139-150.	1.4	120
57	Optimization of a large scale industrial reactor by genetic algorithms. <i>Chemical Engineering Science</i> , 2008, 63, 330-341.	1.9	32
58	Kinetic Modeling and Parameter Estimation in a Tower Bioreactor for Bioethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2008, 148, 163-173.	1.4	5
59	A Comparison Between Lime and Alkaline Hydrogen Peroxide Pretreatments of Sugarcane Bagasse for Ethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2008, 144, 87-100.	1.4	50
60	Bioethanol Production Optimization: A Thermodynamic Analysis. <i>Applied Biochemistry and Biotechnology</i> , 2008, 148, 141-149.	1.4	3
61	A Comparison between Lime and Alkaline Hydrogen Peroxide Pretreatments of Sugarcane Bagasse for Ethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2008, 148, 45-58.	1.4	51
62	The influence of preparation conditions on the characteristics of chitosan- α -alginate dressings for skin lesions. <i>Journal of Applied Polymer Science</i> , 2008, 109, 2703-2710.	1.3	59
63	Bioethanol Production Optimization: A Thermodynamic Analysis. , 2008, , 659-667.		0
64	Estimation of Temperature Dependent Parameters of a Batch Alcoholic Fermentation Process. , 2007, , 753-763.		2
65	A CAPE approach to gamma-Linolenic acid production via lipase-catalyzed enzymatic hydrolysis. <i>Computer Aided Chemical Engineering</i> , 2007, 24, 941-946.	0.3	0
66	Bioethanol production sustainability: Outlook for improvement using computer-aided techniques. <i>Computer Aided Chemical Engineering</i> , 2007, , 929-934.	0.3	0
67	Development of adaptive modeling techniques to describe the temperature-dependent kinetics of biotechnological processes. <i>Biochemical Engineering Journal</i> , 2007, 36, 157-166.	1.8	30
68	Estimation of temperature dependent parameters of a batch alcoholic fermentation process. <i>Applied Biochemistry and Biotechnology</i> , 2007, 137-140, 753-763.	1.4	7
69	Hybrid neural network model of an industrial ethanol fermentation process considering the effect of temperature. <i>Applied Biochemistry and Biotechnology</i> , 2007, 137-140, 817-833.	1.4	3
70	Kinetic Modeling and Parameter Estimation in a Tower Bioreactor for Bioethanol Production. , 2007, , 681-691.		0
71	Hybrid modeling for continuous production of bioethanol. <i>Computer Aided Chemical Engineering</i> , 2006, 21, 613-618.	0.3	1
72	Ethyl Alcohol Production Optimization by Coupling Genetic Algorithm and Multilayer Perceptron Neural Network. <i>Applied Biochemistry and Biotechnology</i> , 2006, 132, 969-984.	1.4	10

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73	Evaluation of optimization techniques for parameter estimation: Application to ethanol fermentation considering the effect of temperature. <i>Process Biochemistry</i> , 2006, 41, 1682-1687.	1.8	72
74	Mathematical modeling and optimal control strategy development for an adipic acid crystallization process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005, 44, 737-753.	1.8	42
75	Non-linear multivariable predictive control of an alcoholic fermentation process using functional link networks. <i>Brazilian Archives of Biology and Technology</i> , 2005, 48, 7-18.	0.5	9
76	Evaluation of Optimization Techniques for an Extractive Alcoholic Fermentation Process. <i>Applied Biochemistry and Biotechnology</i> , 2004, 114, 485-496.	1.4	8
77	Simulation of Aerated Lagoon Using Artificial Neural Networks and Multivariate Regression Techniques. <i>Applied Biochemistry and Biotechnology</i> , 2003, 106, 437-450.	1.4	3
78	Non-Linear Predictive Control of a Three-Phase Catalytic Reactor. <i>Canadian Journal of Chemical Engineering</i> , 2003, 81, 1109-1118.	0.9	1
79	Non-linear predictive control of an extractive alcoholic fermentation process. <i>Process Biochemistry</i> , 2002, 38, 743-750.	1.8	15
80	Hybrid Neural Modeling Of Bioprocesses Using Functional Link Networks. <i>Applied Biochemistry and Biotechnology</i> , 2002, 98-100, 1009-1024.	1.4	16
81	Kinetics of Ethanol Fermentation with High Biomass Concentration Considering the Effect of Temperature. , 2001, , 353-365.		3
82	Factorial design and simulation for the optimization and determination of control structures for an extractive alcoholic fermentation. <i>Process Biochemistry</i> , 2001, 37, 125-137.	1.8	56
83	Kinetics of Ethanol Fermentation with High Biomass Concentration Considering the Effect of Temperature. <i>Applied Biochemistry and Biotechnology</i> , 2001, 91-93, 353-366.	1.4	69
84	Simulated Dynamics and Control of an Extractive Alcoholic Fermentation. <i>Applied Biochemistry and Biotechnology</i> , 2000, 84-86, 577-594.	1.4	11
85	A HYBRID NEURAL MODEL FOR THE OPTIMIZATION OF FED-BATCH FERMENTATIONS. <i>Brazilian Journal of Chemical Engineering</i> , 1999, 16, 53-63.	0.7	20
86	Optimization of fed-batch processes: Challenges and solutions. <i>Brazilian Journal of Chemical Engineering</i> , 1999, 16, 171-177.	0.7	6
87	An adaptive optimal control scheme based on hybrid neural modelling. <i>Computers and Chemical Engineering</i> , 1998, 22, S859-S862.	2.0	17