Luciana Ps Vandenberghe

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7308391/publications.pdf

Version: 2024-02-01

145 papers	5,313 citations	117571 34 h-index	98753 67 g-index
148 all docs	148 docs citations	148 times ranked	5755 citing authors

#	Article	IF	Citations
1	Citric acid assisted hydrothermal pretreatment for the extraction of pectin and xylooligosaccharides production from cocoa pod husks. Bioresource Technology, 2022, 343, 126074.	4.8	27
2	Added-value biomoleculesâ€™ production from cocoa pod husks: A review. Bioresource Technology, 2022, 344, 126252.	4.8	13
3	Nonwaste technology in the bioethanol and biodiesel industries. , 2022, , 41-60.		1
4	Exploring cocoa pod husks as a potential substrate for citric acid production by solid-state fermentation using Aspergillus niger mutant strain. Process Biochemistry, 2022, 113, 107-112.	1.8	12
5	A biorefinery approach for pectin extraction and second-generation bioethanol production from cocoa pod husk. Bioresource Technology, 2022, 346, 126635.	4.8	14
6	Application of enzymes in microbial fermentation of biomass wastes for biofuels and biochemicals production. , 2022, , 283-316.		2
7	Roles and impacts of bioethanol and biodiesel on climate change mitigation. , 2022, , 373-400.		5
8	Integrated processing of soybean in a circular bioeconomy. , 2022, , 189-216.		0
9	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy. , 2022, , 69-94.		1
10	Enzymatic bioremediation. , 2022, , 355-381.		1
11	A concise update on major poly-lactic acid bioprocessing barriers. Bioresource Technology Reports, 2022, 18, 101094.	1.5	7
12	Sugarcane: A Promising Source of Green Carbon in the Circular Bioeconomy. Sugar Tech, 2022, 24, 1230-1245.	0.9	8
13	Beyond sugar and ethanol: The future of sugarcane biorefineries in Brazil. Renewable and Sustainable Energy Reviews, 2022, 167, 112721.	8.2	44
14	Soybean hull valorization for sugar production through the optimization of citric acid pretreatment and enzymatic hydrolysis. Industrial Crops and Products, 2022, 186, 115178.	2.5	13
15	Biorefineries and circular economy in the production of lipids. , 2022, , 309-330.		0
16	Integrating microbial metagenomics and physicochemical parameters and a new perspective on starter culture for fine cocoa fermentation. Food Microbiology, 2021, 93, 103608.	2.1	23
17	Enzyme Technology in Food Processing: Recent Developments and Future Prospects. , 2021, , 191-215.		7
18	Current developments and challenges of green technologies for the valorization of liquid, solid, and gaseous wastes from sugarcane ethanol production. Journal of Hazardous Materials, 2021, 404, 124059.	6.5	30

#	Article	IF	Citations
19	Solid-state fermentation technology and innovation for the production of agricultural and animal feed bioproducts. Systems Microbiology and Biomanufacturing, 2021, 1, 142-165.	1.5	38
20	Imidazole green solvent pre-treatment as a strategy for second-generation bioethanol production from sugarcane bagasse. Chemical Engineering Journal, 2021, 420, 127708.	6.6	28
21	Citric acid bioproduction and downstream processing: Status, opportunities, and challenges. Bioresource Technology, 2021, 320, 124426.	4.8	35
22	Xylan. , 2021, , 129-161.		0
23	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy. , 2021, , 1-27.		0
24	Selenium-Enriched Probiotic Saccharomyces boulardii CCT 4308 Biomass Production Using Low-Cost Sugarcane Molasses Medium. Brazilian Archives of Biology and Technology, 2021, 64, .	0.5	3
25	Valorization of solid and liquid wastes from palm oil industry. , 2021, , 235-265.		3
26	Cocoa pod husk valorization: alkaline-enzymatic pre-treatment for propionic acid production. Cellulose, 2021, 28, 4009-4024.	2.4	15
27	Designing enzyme cocktails from Penicillium and Aspergillus species for the enhanced saccharification of agro-industrial wastes. Bioresource Technology, 2021, 330, 124888.	4.8	15
28	Challenges in the production of second-generation organic acids (potential monomers for) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td	2.9	14
29	Screening of Fungal Strains for Cellulolytic and Xylanolytic Activities Production and Evaluation of Brewersâ€™ Spent Grain as Substrate for Enzyme Production by Selected Fungi. Energies, 2021, 14, 4443.	1.6	3
30	A biorefinery approach for enzymatic complex production for the synthesis of xylooligosaccharides from sugarcane bagasse. Bioresource Technology, 2021, 333, 125174.	4.8	29
31	Potential application of dextranase produced by Penicillium aculeatum in solid-state fermentation from brewer's spent grain in sugarcane process factories. Biocatalysis and Agricultural Biotechnology, 2021, 35, 102086.	1.5	9
32	Bioconversion of potato-processing wastes into an industrially-important chemical lactic acid. Bioresource Technology Reports, 2021, 15, 100698.	1.5	5
33	Multi-product biorefinery from Arthrospira platensis biomass as feedstock for bioethanol and lactic acid production. Scientific Reports, 2021, 11, 19309.	1.6	13
34	Soybean hulls as carbohydrate feedstock for medium to high-value biomolecule production in biorefineries: A review. Bioresource Technology, 2021, 339, 125594.	4.8	23
35	Bioethanol and succinic acid co-production from imidazole-pretreated soybean hulls. Industrial Crops and Products, 2021, 172, 114060.	2.5	2
36	Agro-industrial wastewater in a circular economy: Characteristics, impacts and applications for bioenergy and biochemicals. Bioresource Technology, 2021, 341, 125795.	4.8	37

#	Article	IF	Citations
37	The 2G and 3G bioplastics: an overview. Biotechnology Research and Innovation, 2021, 5, e2021004.	0.3	3
38	Sequential chemical and enzymatic pretreatment of palm empty fruit bunches for Candida pelliculosa bioethanol production. Biotechnology and Applied Biochemistry, 2020, 67, 723-731.	1.4	9
39	Definition of Liquid and Powder Cellulase Formulations Using Domestic Wastewater in Bubble Column Reactor. Applied Biochemistry and Biotechnology, 2020, 190, 113-128.	1.4	8
40	Microalgal biomass pretreatment for integrated processing into biofuels, food, and feed. Bioresource Technology, 2020, 300, 122719.	4.8	105
41	Sustainability of sugarcane lignocellulosic biomass pretreatment for the production of bioethanol. Bioresource Technology, 2020, 299, 122635.	4.8	80
42	Current advances in on-site cellulase production and application on lignocellulosic biomass conversion to biofuels: A review. Biomass and Bioenergy, 2020, 132, 105419.	2.9	136
43	Recent advances on pretreatment of lignocellulosic and algal biomass. Bioresource Technology, 2020, 316, 123957.	4.8	2
44	A non-waste strategy for enzymatic hydrolysis of cellulose recovered from domestic wastewater. Environmental Technology (United Kingdom), 2020, , 1-10.	1.2	1
45	Oilseed Enzymatic Pretreatment for Efficient Oil Recovery in Biodiesel Production Industry: a Review. Bioenergy Research, 2020, 13, 1016-1030.	2.2	21
46	Technological mapping and trends in photobioreactors for the production of microalgae. World Journal of Microbiology and Biotechnology, 2020, 36, 42.	1.7	22
47	Exploring the contribution of fructophilic lactic acid bacteria to cocoa beans fermentation: Isolation, selection and evaluation. Food Research International, 2020, 136, 109478.	2.9	24
48	Phase-Equilibrium Measurements and Thermodynamic Modeling of CO₂ + Geraniol, CO₂ + Geraniol + Acetic Acid, and CO₂ + Geraniol + Ethyl Acetate. Journal of Chemical & Engineering Data, 2020, 65, 1721-1729.	1.0	2
49	Bacillus lipopeptides as powerful pest control agents for a more sustainable and healthy agriculture: recent studies and innovations. Planta, 2020, 251, 70.	1.6	83
50	Update and Revalidation of Ghoseâ€™s Cellulase Assay Methodology. Applied Biochemistry and Biotechnology, 2020, 191, 1271-1279.	1.4	3
51	Lignocellulosic biomass: Acid and alkaline pretreatments and their effects on biomass recalcitrance â€“ Conventional processing and recent advances. Bioresource Technology, 2020, 304, 122848.	4.8	220
52	Alternative methods for gibberellic acid production, recovery and formulation: A case study for product cost reduction. Bioresource Technology, 2020, 309, 123295.	4.8	9
53	Biohydrogen production in cassava processing wastewater using microbial consortia: Process optimization and kinetic analysis of the microbial community. Bioresource Technology, 2020, 309, 123331.	4.8	51
54	Classification of enzymes and catalytic properties. , 2020, , 11-30.		18

#	Article	IF	Citations
55	The Antihypertensive, Antimicrobial and Anticancer Peptides from Arthrospira with Therapeutic Potential: A Mini Review. Current Molecular Medicine, 2020, 20, 593-606.	0.6	18
56	Fermentation Strategies to Minimize Product Inhibition in Bioethanol Production. Arts Studies and Criticism, 2020, , 148-173.	0.1	0
57	Exploring the impacts of postharvest processing on the aroma formation of coffee beans â€“ A review. Food Chemistry, 2019, 272, 441-452.	4.2	165
58	Microalgal biorefineries: Integrated use of liquid and gaseous effluents from bioethanol industry for efficient biomass production. Bioresource Technology, 2019, 292, 121955.	4.8	22
59	Lignocellulosic Bioethanol: Current Status and Future Perspectives. , 2019, , 331-354.		20
60	Current analysis and future perspective of reduction in worldwide greenhouse gases emissions by using first and second generation bioethanol in the transportation sector. Bioresource Technology Reports, 2019, 7, 100234.	1.5	40
61	Microscale direct transesterification of microbial biomass with ethanol for screening of microorganisms by its fatty acid content. Brazilian Archives of Biology and Technology, 2019, 62, .	0.5	5
62	Biotechnological approaches for cocoa waste management: A review. Waste Management, 2019, 90, 72-83.	3.7	123
63	Simultaneous cellulase production using domestic wastewater and bioprocess effluent treatment â€“ A biorefinery approach. Bioresource Technology, 2019, 276, 42-50.	4.8	23
64	Digestive Enzymes: Industrial Applications in Food Products. Energy, Environment, and Sustainability, 2019, , 267-291.	0.6	3
65	Arthrospira maxima OF15 biomass cultivation at laboratory and pilot scale from sugarcane vinasse for potential biological new peptides production. Bioresource Technology, 2019, 273, 103-113.	4.8	59
66	Harvesting Neochloris oleoabundans using commercial organic flocculants. Journal of Applied Phycology, 2018, 30, 2317-2324.	1.5	10
67	Crude Fermented Extract Containing Gibberellic Acid Produced by Fusarium moniliforme is an Alternative to Cost Reduction in Biofactories. Brazilian Archives of Biology and Technology, 2018, 61, .	0.5	0
68	Efficient coffee beans mucilage layer removal using lactic acid fermentation in a stirred-tank bioreactor: Kinetic, metabolic and sensorial studies. Food Bioscience, 2018, 26, 80-87.	2.0	39
69	Current advances in gibberellic acid (GA3) production, patented technologies and potential applications. Planta, 2018, 248, 1049-1062.	1.6	81
70	Solid-State Fermentation for the Production of Organic Acids. , 2018, , 415-434.		24
71	Domestic wastewater as substrate for cellulase production by Trichoderma harzianum. Process Biochemistry, 2017, 57, 190-199.	1.8	35
72	Recent developments and innovations in solid state fermentation. Biotechnology Research and Innovation, 2017, 1, 52-71.	0.3	311

#	Article	IF	Citations
73	Microbiological, biochemical, and functional aspects of sugary kefir fermentation - A review. Food Microbiology, 2017, 66, 86-95.	2.1	147
74	Pilot scale biodiesel production from microbial oil of Rhodosporidium toruloides DEBB 5533 using sugarcane juice: Performance in diesel engine and preliminary economic study. Bioresource Technology, 2017, 223, 259-268.	4.8	145
75	Gibberellic Acid Production by Different Fermentation Systems Using Citric Pulp as Substrate/Support. BioMed Research International, 2017, 2017, 1-8.	0.9	28
76	Potential applications of plant probiotic microorganisms in agriculture and forestry. AIMS Microbiology, 2017, 3, 629-648.	1.0	53
77	Pharmacological Properties of Biocompounds from Spores of the Lingzhi or Reishi Medicinal Mushroom Ganoderma lucidum (Agaricomycetes): A Review. International Journal of Medicinal Mushrooms, 2016, 18, 757-767.	0.9	42
78	Production of Cellulases by Phanerochaete sp. Using Empty Fruit Bunches of Palm (EFB) as Substrate: Optimization and Scale-Up of Process in Bubble Column and Stirred Tank Bioreactors (STR). Waste and Biomass Valorization, 2016, 7, 1327-1337.	1.8	9
79	Microbial Enzyme Factories. , 2016, , 1-22.		5
80	Biological activities and thermal behavior of lignin from oil palm empty fruit bunches as potential source of chemicals of added value. Industrial Crops and Products, 2016, 94, 630-637.	2.5	45
81	Bioprocess for phytase production by Ganoderma sp. MR-56 in different types of bioreactors through submerged cultivation. Biochemical Engineering Journal, 2016, 114, 288-297.	1.8	14
82	Microbial Oil for Biodiesel Production. Green Energy and Technology, 2016, , 387-406.	0.4	4
83	Feedstocks for Biofuels. Green Energy and Technology, 2016, , 15-39.	0.4	10
84	First Generation Bioethanol. Green Energy and Technology, 2016, , 175-212.	0.4	47
85	Production of Basidiomata and Ligninolytic Enzymes by the Lingzhi or Reishi Medicinal Mushroom, Ganoderma lucidum (Agaricomycetes), in Licuri (Syagrus coronata) Wastes in Brazil. International Journal of Medicinal Mushrooms, 2016, 18, 1141-1149.	0.9	6
86	Effect of different compounds on the induction of laccase production by Agaricus blazei. Genetics and Molecular Research, 2015, 14, 15882-15891.	0.3	28
87	Milk kefir: composition, microbial cultures, biological activities, and related products. Frontiers in Microbiology, 2015, 6, 1177.	1.5	236
88	Selection of the StrainLactobacillus acidophilusATCC 43121 and Its Application to Brewersâ€™ Spent Grain Conversion into Lactic Acid. BioMed Research International, 2015, 2015, 1-9.	0.9	17
89	Optimization ofArundo donaxSaccharification by (Hemi)cellulolytic Enzymes fromPleurotus ostreatus. BioMed Research International, 2015, 2015, 1-14.	0.9	3
90	Second Generation Ethanol Production from Brewersâ€™ Spent Grain. Energies, 2015, 8, 2575-2586.	1.6	69

#	Article	IF	Citations
91	Bacillus atrophaeus:main characteristics and biotechnological applications â€“ a review. Critical Reviews in Biotechnology, 2015, 35, 533-545.	5.1	40
92	Characterization of Hemicellulolytic Enzymes Produced by Aspergillus niger NRRL 328 under Solid State Fermentation on Soybean Husks. BioResources, 2014, 9, .	0.5	4
93	Optimization of Agaricus blazei laccase production by submerged cultivation with sugarcane molasses. African Journal of Microbiology Research, 2014, 8, 939-946.	0.4	18
94	Aqueous two-phase extraction for partial purification ofSchizophyllum communephytase produced under solid-state fermentation. Biocatalysis and Biotransformation, 2014, 32, 45-52.	1.1	5
95	Optimum conditions for inducing laccase production in Lentinus crinitus. Genetics and Molecular Research, 2014, 13, 8544-8551.	0.3	27
96	Analysis of inducers of xylanase and cellulase activities production by Ganoderma applanatum LPB MR-56. Fungal Biology, 2014, 118, 655-662.	1.1	25
97	Life cycle and spore resistance of spore-forming Bacillus atrophaeus. Microbiological Research, 2014, 169, 931-939.	2.5	83
98	Plant Growth Hormones and Other Phytochemicals. , 2014, , 163-183.		0
99	Extractive Fermentation of Xylanase from Aspergillus tamarii URM 4634 in a Bioreactor. Applied Biochemistry and Biotechnology, 2014, 173, 1652-1666.	1.4	13
100	Evaluation of probiotic properties of Pediococcus acidilactici B14 in association with Lactobacillus acidophilus ATCC 4356 for application in a soy based aerated symbiotic dessert. Brazilian Archives of Biology and Technology, 2014, 57, 755-765.	0.5	14
101	Microbial Pigments. , 2014, , 73-97.		17
102	Analysis and glycosyl composition of the exopolysaccharide isolated from submerged fermentation of Ganoderma lucidum CG144. Acta Societatis Botanicorum Poloniae, 2014, 83, 239-241.	0.8	4
103	Soybean molasses-based bioindicator system for monitoring sterilization process: Designing and performance evaluation. Biotechnology and Bioprocess Engineering, 2013, 18, 75-87.	1.4	3
104	Effect of forced aeration on citric acid production by Aspergillus sp. mutants in SSF. World Journal of Microbiology and Biotechnology, 2013, 29, 2317-2324.	1.7	8
105	The Pretreatment Step in Lignocellulosic Biomass Conversion: Current Systems and New Biological Systems. , 2013, , 39-64.		10
106	Glycerol-based sterilization bioindicator system from Bacillus atrophaeus: development, performance evaluation, and cost analysis. Applied Microbiology and Biotechnology, 2013, 97, 1031-1042.	1.7	2
107	A bioprocess for the production of phytase from Schizophyllum commune: studies of its optimization, profile of fermentation parameters, characterization and stability. Bioprocess and Biosystems Engineering, 2012, 35, 1067-1079.	1.7	27
108	New perspectives of gibberellic acid production: a review. Critical Reviews in Biotechnology, 2012, 32, 263-273.	5.1	86

#	Article	IF	Citations
109	Study of the influence of sporulation conditions on heat resistance of Geobacillus stearothermophilus used in the development of biological indicators for steam sterilization. Archives of Microbiology, 2012, 194, 991-999.	1.0	32
110	Relations between phenotypic changes of spores and biofilm production by Bacillus atrophaeus ATCC 9372 growing in solid-state fermentation. Archives of Microbiology, 2012, 194, 815-825.	1.0	2
111	Development of a low-cost sterilization biological indicator using Bacillus atrophaeus by solid-state fermentation. Applied Microbiology and Biotechnology, 2012, 93, 151-158.	1.7	4
112	Lignocellulosic Bioethanol. , 2011, , 101-122.		30
113	Optimized production of Pichia guilliermondii biomass with zinc accumulation by fermentation. Animal Feed Science and Technology, 2011, 163, 33-42.	1.1	9
114	Optimization of biomass production with copper bioaccumulation by yeasts in submerged fermentation. Brazilian Archives of Biology and Technology, 2011, 54, 1027-1034.	0.5	10
115	Formulated products containing a new phytase from Schyzophyllum sp. phytase for application in feed and food processing. Brazilian Archives of Biology and Technology, 2011, 54, 1069-1074.	0.5	7
116	Use of soybean vinasses as a germinant medium for a Geobacillus stearothermophilus ATCC 7953 sterilization biological indicator. Applied Microbiology and Biotechnology, 2011, 90, 713-719.	1.7	5
117	Application of the biorefinery concept to produce l-lactic acid from the soybean vinasse at laboratory and pilot scale. Bioresource Technology, 2011, 102, 1765-1772.	4.8	61
118	Bioethanol from lignocelluloses: Status and perspectives in Brazil. Bioresource Technology, 2010, 101, 4820-4825.	4.8	326
119	Xylanase production by Streptomyces viridosporus T7A in submerged and solid-state fermentation using agro-industrial residues. Brazilian Archives of Biology and Technology, 2009, 52, 171-180.	0.5	18
120	A new alternative to produce gibberellic acid by solid state fermentation. Brazilian Archives of Biology and Technology, 2009, 52, 181-188.	0.5	26
121	Lab-Scale production of Bacillus atrophaeus' spores by solid state fermentation in fifferent types of bioreactors. Brazilian Archives of Biology and Technology, 2009, 52, 159-170.	0.5	17
122	Improvement on Citric Acid Production in Solid-state Fermentation by Aspergillus niger LPB BC Mutant Using Citric Pulp. Applied Biochemistry and Biotechnology, 2009, 158, 72-87.	1.4	34
123	Study of some parameters which affect xylanase production: Strain selection, enzyme extraction optimization, and influence of drying conditions. Biotechnology and Bioprocess Engineering, 2009, 14, 748-755.	1.4	8
124	Bioindicator production with Bacillus atrophaeusâ€™ thermal-resistant spores cultivated by solid-state fermentation. Applied Microbiology and Biotechnology, 2009, 82, 1019-1026.	1.7	10
125	Improving fruity aroma production by fungi in SSF using citric pulp. Food Research International, 2009, 42, 484-486.	2.9	52
126	Utilization of soybean vinasse for Î±-galactosidase production. Food Research International, 2009, 42, 476-483.	2.9	21

#	Article	IF	Citations
127	Batch Fermentation Model of Propionic Acid Production by Propionibacterium acidipropionici in Different Carbon Sources. Applied Biochemistry and Biotechnology, 2008, 151, 333-341.	1.4	99
128	Selection and Optimization of Bacillus atrophaeus Inoculum Medium and its Effect on Spore Yield and Thermal Resistance. Applied Biochemistry and Biotechnology, 2008, 151, 380-392.	1.4	12
129	Production of Organic Acids by Solid-state Fermentation. , 2008, , 205-229.		14
130	Production of Aroma Compounds. , 2008, , 356-376.		5
131	Thermal characterization of partially hydrolyzed cassava (Manihot esculenta) starch granules. Brazilian Archives of Biology and Technology, 2008, 51, 1209-1215.	0.5	21
132	Effect of caffeine and tannins on cultivation and fructification of Pleurotus on coffee husks. Brazilian Journal of Microbiology, 2006, 37, 420-424.	0.8	15
133	Glucoamylase. , 2006, , 221-237.		4
134	Spore production of Beauveria bassiana from agro-industrial residues. Brazilian Archives of Biology and Technology, 2005, 48, 51-60.	0.5	33
135	Citric acid production by solid-state fermentation on a semi-pilot scale using different percentages of treated cassava bagasse. Brazilian Journal of Chemical Engineering, 2005, 22, 547-555.	0.7	32
136	Relation between citric acid production by solid-state fermentation from cassava bagasse and respiration of Aspergillus niger LPB 21 in semi-pilot scale. Brazilian Archives of Biology and Technology, 2005, 48, 29-36.	0.5	14
137	Comparison of Citric Acid Production by Solid-State Fermentation in Flask, Column, Tray, and Drum Bioreactors. Applied Biochemistry and Biotechnology, 2004, 118, 293-304.	1.4	30
138	Relation between Citric Acid Production and Respiration Rate ofAspergillus niger in Solid-State Fermentation. Engineering in Life Sciences, 2004, 4, 179-186.	2.0	23
139	Overview of applied solid-state fermentation in Brazil. Biochemical Engineering Journal, 2003, 13, 205-218.	1.8	186
140	Solid-state fermentation for the synthesis of citric acid by Aspergillus niger. Bioresource Technology, 2000, 74, 175-178.	4.8	151
141	Biotechnological potential of agro-industrial residues. II: cassava bagasse. Bioresource Technology, 2000, 74, 81-87.	4.8	343
142	Microbial production of citric acid. Brazilian Archives of Biology and Technology, 1999, 42, 263-276.	0.5	98
143	Flavor Compounds Produced by Fungi, Yeasts, and Bacteria. , 0, , 179-191.		9
144	Flavor Production by Solid and Liquid Fermentation. , 0, , 193-203.		1

#	Article	IF	Citations
145	Data Acquisition Systems in Bioprocesses. , 0, , .		2