Taurai Mutanda

List of Publications by Year
in descending order

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25 papers	3,007 citations	623188 14 h-index	610482 24 g-index
25 all docs	25 docs citations	25 times ranked	3874 citing authors

#	Article	IF	Citations
1	Dual role of microalgae: Phycoremediation of domestic wastewater and biomass production for sustainable biofuels production. Applied Energy, 2011, 88, 3411-3424.	5.1	915
2	Biodiesel from microalgae: A critical evaluation from laboratory to large scale production. Applied Energy, 2013, 103, 444-467.	5.1	786
3	Bioprospecting for hyper-lipid producing microalgal strains for sustainable biofuel production. Bioresource Technology, 2011, 102, 57-70.	4.8	381
4	Advances in synthesis of biodiesel via enzyme catalysis: Novel and sustainable approaches. Renewable and Sustainable Energy Reviews, 2015, 41, 1447-1464.	8.2	236
5	Perspectives on the probiotic potential of lactic acid bacteria from African traditional fermented foods and beverages. Food and Nutrition Research, 2016, 60, 29630.	1.2	143
6	Potential biotechnological application of microalgae: a critical review. Critical Reviews in Biotechnology, 2017, 37, 37-52.	5.1	125
7	Microbial enzymatic production and applications of short-chain fructooligosaccharides and inulooligosaccharides: recent advances and current perspectives. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 893-906.	1.4	86
8	Response surface methodology: Synthesis of short chain fructooligosaccharides with a fructosyltransferase from Aspergillus aculeatus. Bioresource Technology, 2009, 100, 2040-2045.	4.8	59
9	Response surface methodology: Synthesis of inulooligosaccharides with an endoinulinase from Aspergillus niger. Enzyme and Microbial Technology, 2008, 43, 362-368.	1.6	45
10	The Utilization of Post-chlorinated Municipal Domestic Wastewater for Biomass and Lipid Production by Chlorella spp. Under Batch Conditions. Applied Biochemistry and Biotechnology, 2011, 164, 1126-1138.	1.4	44
11	Cyanobacterial metabolites as promising drug leads against the M^{pro}and PL^{pro}of SARS-CoV-2: anin silicoanalysis. Journal of Biomolecular Structure and Dynamics, 2021, 39, 6218-6230.	2.0	35
12	Isolation, Identification and High-Throughput Screening of Neutral Lipid Producing Indigenous Microalgae from South African Aquatic Habitats. Applied Biochemistry and Biotechnology, 2017, 182, 382-399.	1.4	26
13	Controlled Production of Fructose by an Exoinulinase from Aspergillus Ficuum. Applied Biochemistry and Biotechnology, 2009, 159, 65-77.	1.4	25
14	Evaluation of Pre-Chlorinated Wastewater Effluent for Microalgal Cultivation and Biodiesel Production. Water (Switzerland), 2018, 10, 977.	1.2	15
15	Photosystem I fluorescence as a physiological indicator of hydrogen production in Chlamydomonas reinhardtii. Bioresource Technology, 2019, 273, 313-319.	4.8	12
16	Nutrient Removal from Dairy and Poultry Wastewater with Simultaneous Biomass and Biodiesel Production by Chlorella sp. T4 Isolated from a Freshwater Stream in South Africa. Waste and Biomass Valorization, 2021, 12, 6931-6943.	1.8	12
17	Oligosaccharides production from coprophilous fungi: An emerging functional food with potential health-promoting properties. Biotechnology Reports (Amsterdam, Netherlands), 2022, 33, e00702.	2.1	12
18	Thermal Behavior and Pyrolytic Characteristics of FreshwaterScenedesmussp. Biomass. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 1383-1391.	1.2	11

#	Article	IF	Citations
19	Structural Insight into the Binding of Cyanovirin-N with the Spike Glycoprotein, Mpro and PLpro of SARS-CoV-2: Proteinâ€"Protein Interactions, Dynamics Simulations and Free Energy Calculations. Molecules, 2021, 26, 5114.	1.7	11
20	Purification and biochemical characterization of an extracellular fructosyltransferase enzyme from Aspergillus niger sp. XOBP48: implication in fructooligosaccharide production. 3 Biotech, 2020, 10, 459.	1.1	9
21	Monitoring the acclimatization of a Chlorella sp. From freshwater to hypersalinity using photosynthetic parameters of pulse amplitude modulated fluorometry. Bioresource Technology, 2020, 309, 123380.	4.8	6
22	Biocatalytic conversion of inulin and sucrose into short chain oligosaccharides for potential pharmaceutical applications. African Journal of Science, Technology, Innovation and Development, 2015, 7, 371-380.	0.8	5
23	Fructosyltransferase and inulinase production by indigenous coprophilous fungi for the biocatalytic conversion of sucrose and inulin into oligosaccharides. Biocatalysis and Agricultural Biotechnology, 2020, 30, 101867.	1.5	4
24	Fructooligosaccharides synthesized by fructosyltransferase from an indigenous coprophilous Aspergillus niger strain XOBP48 exhibits antioxidant activity. Bioactive Carbohydrates and Dietary Fibre, 2020, 24, 100238.	1.5	3
25	Enumeration of Microalgal Cells. , 2013, , 45-50.		1