Marcos S Buckeridge

List of Publications by Citations

176 papers	4,693 citations	37 h-index	62 g-index
185 ext. papers	5,551 ext. citations	4.9 avg, IF	5.68 L-index

#	Paper	IF	Citations
176	Bioethanol from lignocelluloses: Status and perspectives in Brazil. *Bioresource Technology*, **2010**, 101, 4820-5	11	282
175	Scientific challenges of bioethanol production in Brazil. *Applied Microbiology and Biotechnology*, **2011**, 91, 1267-75	5.7	215
174	Impacts of climate changes on crop physiology and food quality. *Food Research International*, **2010**, 43, 1814-1823	7	197
173	Elevated CO2 increases photosynthesis, biomass and productivity, and modifies gene expression in sugarcane. *Plant, Cell and Environment*, **2008**, 31, 1116-27	8.4	173
172	Composition and Structure of Sugarcane Cell Wall Polysaccharides: Implications for Second-Generation Bioethanol Production. *Bioenergy Research*, **2013**, 6, 564-579	3.1	171
171	Mobilisation of storage cell wall polysaccharides in seeds. *Plant Physiology and Biochemistry*, **2000**, 38, 141-156	5.4	166
170	Seed cell wall storage polysaccharides: models to understand cell wall biosynthesis and degradation. *Plant Physiology*, **2010**, 154, 1017-23	6.6	145
169	Mixed Linkage (1->3),(1->4)-□d-Glucans of Grasses. *Cereal Chemistry*, **2004**, 81, 115-127	2.4	126
168	Seed storage hemicelluloses as wet-end additives in papermaking. *Carbohydrate Polymers*, **2003**, 52, 367-373	10.3	104
167	The mechanism of synthesis of a mixed-linkage (1-->3), (1-->4)beta-D-glucan in maize. Evidence for multiple sites of glucosyl transfer in the synthase complex. *Plant Physiology*, **1999**, 120, 1105-16	6.6	101
166	Novo m□todo enzim□tico r□pido e sens□vel de extra□ e dosagem de amido em materiais vegetais. *Hoehnea (revista)*, **2007**, 34, 425-431	1	89
165	Brazilian sugarcane ethanol as an expandable green alternative to crude oil use. *Nature Climate Change*, **2017**, 7, 788-792	21.4	87
164	Comparative Secretome Analysis of Trichoderma reesei and Aspergillus niger during Growth on Sugarcane Biomass. *PLoS ONE*, **2015**, 10, e0129275	3.7	76
163	Sugarcane as a Bioenergy Source: History, Performance, and Perspectives for Second-Generation Bioethanol. *Bioenergy Research*, **2014**, 7, 24-35	3.1	74
162	Physico-chemical properties of seed xyloglucans from different sources. *Carbohydrate Polymers*, **2005**, 60, 507-514	10.3	70
161	A new family of oligosaccharides from the xyloglucan of Hymenaea courbaril L. (Leguminosae) cotyledons. *Carbohydrate Research*, **1997**, 303, 233-7	2.9	67
160	Purification and properties of a novel beta-galactosidase or exo-(1-->4)-beta-D-galactanase from the cotyledons of germinated Lupinus angustifolius L. seeds. *Planta*, **1994**, 192, 502-11	4.7	63

159	Xyloglucan-cellulose interaction depends on the sidechains and molecular weight of xyloglucan. *Plant Physiology and Biochemistry*, **2004**, 42, 389-94	5.4	61
158	Mobilisation of the raffinose family oligosaccharides and galactomannan in germinating seeds of Sesbania marginata Benth. (Leguminosae-Faboideae). *Plant Science*, **1996**, 117, 33-43	5.3	60
157	How cell wall complexity influences saccharification efficiency in Miscanthus sinensis. *Journal of Experimental Botany*, **2015**, 66, 4351-65	7	58
156	The Biotechnology Roadmap for Sugarcane Improvement. *Tropical Plant Biology*, **2010**, 3, 75-87	1.6	56
155	Xyloglucan structure and post-germinative metabolism in seeds of Copaifera langsdorfii from savanna and forest populations. *Physiologia Plantarum*, **1992**, 86, 145-151	4.6	56
154	A novel thermostable xylanase GH10 from Malbranchea pulchella expressed in Aspergillus nidulans with potential applications in biotechnology. *Biotechnology for Biofuels*, **2014**, 7, 115	7.8	54
153	Co-expression network analysis reveals transcription factors associated to cell wall biosynthesis in sugarcane. *Plant Molecular Biology*, **2016**, 91, 15-35	4.6	51
152	Cell wall polysaccharides from fern leaves: evidence for a mannan-rich Type III cell wall in Adiantum raddianum. *Phytochemistry*, **2011**, 72, 2352-60	4	48
151	Xyloglucan mobilisation in cotyledons of developing plantlets of Hymenaea courbaril L. (Leguminosae-Caesalpinoideae). *Plant Science*, **2000**, 154, 117-126	5.3	48
150	Purification of a beta-galactosidase from cotyledons of Hymenaea courbaril L. (Leguminosae). Enzyme properties and biological function. *Plant Physiology and Biochemistry*, **2006**, 44, 619-27	5.4	42
149	Interaction between cellulose and storage xyloglucans: the influence of the degree of galactosylation. *Carbohydrate Polymers*, **2001**, 46, 157-163	10.3	41
148	Effect of a drought period on the mobilisation of non-structural carbohydrates, photosynthetic efficiency and water status in an epiphytic orchid. *Plant Physiology and Biochemistry*, **2001**, 39, 1009-1016	5.4	41
147	Influence of potassium and sodium nutrition on leaf area components in Eucalyptus grandis trees. *Plant and Soil*, **2013**, 371, 19-35	4.2	40
146	Global environmental changes: setting priorities for Latin American coastal habitats. *Global Change Biology*, **2013**, 19, 1965-9	11.4	40
145	Growth, photosynthesis and stress indicators in young rosewood plants (Aniba rosaeodora Ducke) under different light intensities. *Brazilian Journal of Plant Physiology*, **2005**, 17, 325-334		40
144	The role of air pollution and climate on the growth of urban trees. *Science of the Total Environment*, **2019**, 666, 652-661	10.2	39
143	Ethanol from sugarcane in Brazil: a âhidwayâstrategy for increasing ethanol production while maximizing environmental benefits. *GCB Bioenergy*, **2012**, 4, 119-126	5.6	39
142	Functional characterization and oligomerization of a recombinant xyloglucan-specific endo-β1,4-glucanase (GH12) from Aspergillus niveus. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2012**, 1824, 461-7	4	39

141	How endogenous plant cell-wall degradation mechanisms can help achieve higher efficiency in saccharification of biomass. *Journal of Experimental Botany*, **2015**, 66, 4133-43	7	38
140	Fine structure of a mixed-oligomer storage xyloglucan from seeds of Hymenaea courbaril. *Carbohydrate Polymers*, **2006**, 66, 444-454	10.3	38
139	Xyloglucan mobilisation and purification of a (XLLG/XLXG) specific β-galactosidase from cotyledons of Copaifera langsdorffii. *Plant Physiology and Biochemistry*, **1999**, 37, 653-663	5.4	37
138	Seed galactomannan in the classification and evolution of the leguminosae. *Phytochemistry*, **1995**, 38, 871-875	4	37
137	The role of carbohydrates in seed germination and seedling establishment of Himatanthus sucuuba, an Amazonian tree with populations adapted to flooded and non-flooded conditions. *Annals of Botany*, **2009**, 104, 1111-9	4.1	36
136	Breaking the â€˜glycomic Codeâ€™ of Cell Wall Polysaccharides May Improve Second-Generation Bioenergy Production from Biomass. *Bioenergy Research*, **2014**, 7, 1065-1073	3.1	35
135	Physiological limitations in two sugarcane varieties under water suppression and after recovering. *Theoretical and Experimental Plant Physiology*, **2013**, 25, 213-222	2.4	35
134	Hydrogen peroxide-acetic acid pretreatment increases the saccharification and enzyme adsorption on lignocellulose. *Industrial Crops and Products*, **2019**, 140, 111657	5.9	34
133	The role of the storage carbon of cotyledons in the establishment of seedlings of Hymenaea courbaril under different light conditions. *Annals of Botany*, **2004**, 94, 819-30	4.1	34
132	Pectins, Endopolygalacturonases, and Bioenergy. *Frontiers in Plant Science*, **2016**, 7, 1401	6.2	34
131	Down-regulation of tomato PHYTOL KINASE strongly impairs tocopherol biosynthesis and affects prenyllipid metabolism in an organ-specific manner. *Journal of Experimental Botany*, **2016**, 67, 919-34	7	33
130	Will the exceptional productivity of Miscanthus x giganteus increase further under rising atmospheric CO2?. *Agricultural and Forest Meteorology*, **2013**, 171-172, 82-92	5.8	33
129	Insight into multi-site mechanisms of glycosyl transfer in (1-->4)beta-D-glycans provided by the cereal mixed-linkage (1-->3),(1-->4)beta-D-glucan synthase. *Phytochemistry*, **2001**, 57, 1045-53	4	33
128	The control of storage xyloglucan mobilization in cotyledons of Hymenaea courbaril. *Plant Physiology*, **2004**, 135, 287-99	6.6	30
127	A multi-proxy dendroecological analysis of two tropical species (Hymenaea spp., Leguminosae) growing in a vegetation mosaic. *Trees - Structure and Function*, **2013**, 27, 25-36	2.6	28
126	Changes in Whole-Plant Metabolism during the Grain-Filling Stage in Sorghum Grown under Elevated CO2 and Drought. *Plant Physiology*, **2015**, 169, 1755-65	6.6	28
125	Galactomannans as the reserve carbohydrate in legume seeds. *Developments in Crop Science*, **2000**, 283-316		27
124	Effect of atmospheric CO2 enrichment on the establishment of seedlings of Jatobá Hymenaea Courbaril L. (Leguminosae, Caesalpinioideae). *Biota Neotropica*, **2002**, 2, 1-10		27

123	The role of exo-(1-->4)-beta-galactanase in the mobilization of polysaccharides from the cotyledon cell walls of Lupinus angustifolius following germination. *Annals of Botany*, **2005**, 96, 435-44	4.1	25
122	Contrasting responses of stomatal conductance and photosynthetic capacity to warming and elevated CO2 in the tropical tree species Alchornea glandulosa under heatwave conditions. *Environmental and Experimental Botany*, **2019**, 158, 28-39	5.9	25
121	Dendrobiochemistry, a missing link to further understand carbon allocation during growth and decline of trees. *Trees - Structure and Function*, **2017**, 31, 1745-1758	2.6	24
120	Galacturonosyltransferase 4 silencing alters pectin composition and carbon partitioning in tomato. *Journal of Experimental Botany*, **2013**, 64, 2449-66	7	23
119	Lignin plays a key role in determining biomass recalcitrance in forage grasses. *Renewable Energy*, **2020**, 147, 2206-2217	8.1	23
118	Pheophytinase Knockdown Impacts Carbon Metabolism and Nutraceutical Content Under Normal Growth Conditions in Tomato. *Plant and Cell Physiology*, **2016**, 57, 642-53	4.9	22
117	Temperature-dependent germination and endo-beta -mannanase activity in sesame seeds. *Brazilian Journal of Plant Physiology*, **2001**, 13, 139-148		22
116	An actinobacteria lytic polysaccharide monooxygenase acts on both cellulose and xylan to boost biomass saccharification. *Biotechnology for Biofuels*, **2019**, 12, 117	7.8	21
115	Tree rings reveal the reduction of Cd, Cu, Ni and Pb pollution in the central region of SÃ Paulo, Brazil. *Environmental Pollution*, **2018**, 242, 320-328	9.3	21
114	Cellulose crystals in fibrovascular bundles of sugarcane culms: orientation, size, distortion, and variability. *Cellulose*, **2012**, 19, 1507-1515	5.5	21
113	Insights on how the activity of an endoglucanase is affected by physical properties of insoluble celluloses. *Journal of Physical Chemistry B*, **2012**, 116, 6128-36	3.4	21
112	Galactose branching modulates the action of cellulase on seed storage xyloglucans. *Carbohydrate Polymers*, **2003**, 52, 135-141	10.3	20
111	Patterns of expression of cell wall related genes in sugarcane. *Genetics and Molecular Biology*, **2001**, 24, 191-198	2	19
110	Xyloglucan breakdown by endo-xyloglucanase family 74 from Aspergillus fumigatus. *Applied Microbiology and Biotechnology*, **2017**, 101, 2893-2903	5.7	17
109	Apoplastic and intracellular plant sugars regulate developmental transitions in witches' broom disease of cacao. *Journal of Experimental Botany*, **2015**, 66, 1325-37	7	17
108	Characterization of sugarcane (Saccharum spp.) leaf senescence: implications for biofuel production. *Biotechnology for Biofuels*, **2016**, 9, 153	7.8	17
107	Responses of Senna reticulata, a legume tree from the Amazonian floodplains, to elevated atmospheric CO2 concentration and waterlogging. *Trees - Structure and Function*, **2014**, 28, 1021-1034	2.6	17
106	Cell wall changes during the formation of aerenchyma in sugarcane roots. *Annals of Botany*, **2017**, 120, 693-708	4.1	17

105	Transcriptional profiling of Brazilian Saccharomyces cerevisiae strains selected for semi-continuous fermentation of sugarcane must. *FEMS Yeast Research*, **2013**, 13, 277-90	3.1	17
104	Routes to Cellulosic Ethanol **2011**,		17
103	Effects of abscisic acid, ethylene and sugars on the mobilization of storage proteins and carbohydrates in seeds of the tropical tree Sesbania virgata (Leguminosae). *Annals of Botany*, **2010**, 106, 607-16	4.1	17
102	Do plant cell walls have a code?. *Plant Science*, **2015**, 241, 286-94	5.3	16
101	Carbohydrate-mediated responses during zygotic and early somatic embryogenesis in the endangered conifer, Araucaria angustifolia. *PLoS ONE*, **2017**, 12, e0180051	3.7	15
100	Diurnal variation in gas exchange and nonstructural carbohydrates throughout sugarcane development. *Functional Plant Biology*, **2018**, 45, 865-876	2.7	15
99	The evolution of the Glycomic Codes of extracellular matrices. *BioSystems*, **2018**, 164, 112-120	1.9	14
98	The functional properties of a xyloglucanase (GH12) of Aspergillus terreus expressed in Aspergillus nidulans may increase performance of biomass degradation. *Applied Microbiology and Biotechnology*, **2016**, 100, 9133-9144	5.7	14
97	Correlation of Apiose Levels and Growth Rates in Duckweeds. *Frontiers in Chemistry*, **2018**, 6, 291	5	14
96	Global tree-ring analysis reveals rapid decrease in tropical tree longevity with temperature. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 33358-33364	11.5	14
95	Isolated and combined effects of elevated CO and high temperature on the whole-plant biomass and the chemical composition of soybean seeds. *Food Chemistry*, **2019**, 275, 610-617	8.5	14
94	Characterization of storage cell wall polysaccharides from Brazilian legume seeds and the formation of aqueous two-phase systems. *Biomedical Applications*, **1996**, 680, 255-61		13
93	"Mas de que te serve saber botfiica?". *Estudos Avancados*, **2016**, 30, 177-196	0.6	13
92	Roles of auxin and ethylene in aerenchyma formation in sugarcane roots. *Plant Signaling and Behavior*, **2018**, 13, e1422464	2.5	12
91	Nutrient and drought stress: implications for phenology and biomass quality in miscanthus. *Annals of Botany*, **2019**, 124, 553-566	4.1	12
90	BioNetStat: A Tool for Biological Networks Differential Analysis. *Frontiers in Genetics*, **2019**, 10, 594	4.5	12
89	Hypoglycemic activity of polysaccharide fractions containing beta-glucans from extracts of Rhynchelytrum repens (Willd.) C.E. Hubb., Poaceae. *Brazilian Journal of Medical and Biological Research*, **2005**, 38, 885-93	2.8	12
88	Monomer composition of polysaccharides of seed cell walls and the taxonomy of the Vochysiaceae. *Phytochemistry*, **2000**, 55, 581-7	4	12

87	A Highly Glucose Tolerant -Glucosidase from Malbranchea pulchella (MpBg3) Enables Cellulose Saccharification. *Scientific Reports*, **2020**, 10, 6998	4.9	11
86	Unpacking Brazilâ Leadership in the Global Biofuels Arena: Brazilian Ethanol Diplomacy in Africa. *Global Environmental Politics*, **2016**, 16, 127-150	2.6	11
85	vores urbanas em Sã Paulo: planejamento, economia e gua. *Estudos Avancados*, **2015**, 29, 85-101	0.6	11
84	Using Natural Plant Cell Wall Degradation Mechanisms to Improve Second Generation Bioethanol **2014**, 211-230		11
83	Short-term responses of soybean roots to individual and combinatorial effects of elevated [CO] and water deficit. *Plant Science*, **2019**, 280, 283-296	5.3	11
82	Cell wall hydrolases act in concert during aerenchyma development in sugarcane roots. *Annals of Botany*, **2019**, 124, 1067-1089	4.1	10
81	Efficient hydrolysis of wine and grape juice anthocyanins by Malbranchea pulchella -glucosidase immobilized on MANAE-agarose and ConA-Sepharose supports. *International Journal of Biological Macromolecules*, **2019**, 136, 1133-1141	7.9	10
80	A Halotolerant Endo-1,4- -Xylanase from Aspergillus clavatus with Potential Application for Agroindustrial Residues Saccharification. *Applied Biochemistry and Biotechnology*, **2020**, 191, 1111-1126	3.2	10
79	Physiological and biochemical characterization of the assai palm (Euterpe oleracea Mart.) during seed germination and seedling growth under aerobic and anaerobic conditions. *Revista Arvore*, **2010**, 34, 1045-4053	1	10
78	Testa is involved in the control of storage mobilisation in seeds of Sesbania virgata (Cav.) Pers., a tropical legume tree from of the Atlantic Forest. *Trees - Structure and Function*, **2006**, 21, 13-21	2.6	10
77	Cell wall hydrolases in the seeds of Euphorbia heterophylla L. during germination and early seedling development. *Brazilian Journal of Plant Physiology*, **2003**, 15, 135-143		10
76	Synthesis of fructans by fructosyltransferase from the tuberous roots of Viguiera discolor (Asteraceae). *Brazilian Journal of Medical and Biological Research*, **1999**, 32, 435-42	2.8	10
75	Endo-beta-mannanase from the endosperm of seeds of Sesbania virgata (Cav.) Pers. (Leguminosae): purification, characterisation and its dual role in germination and early seedling growth. *Brazilian Journal of Plant Physiology*, **2006**, 18, 269-280		10
74	Inorganics in sugarcane bagasse and straw and their impacts for bioenergy and biorefining: A review. *Renewable and Sustainable Energy Reviews*, **2021**, 148, 111268	16.2	10
73	On the perceptions and conceptions of tourists with regard to global environmental changes and their consequences for coastal and marine environments: A case study of the northern Sã Paulo State coast, Brazil. *Marine Policy*, **2015**, 57, 85-92	3.5	9
72	Eucalyptus Cell Wall Architecture: Clues for Lignocellulosic Biomass Deconstruction. *Bioenergy Research*, **2016**, 9, 969-979	3.1	9
71	Expression pattern of four storage xyloglucan mobilization-related genes during seedling development of the rain forest tree Hymenaea courbaril L. *Journal of Experimental Botany*, **2009**, 60, 1191-206	7	9
70	Effect of abscisic acid on galactomannan degradation and endo- -mannanase activity in seeds of Sesbania virgata (Cav.) Pers. (Leguminosae). *Trees - Structure and Function*, **2006**, 20, 669-678	2.6	9

69	Carbohydrate composition of ripe pineapple (cv. perola) and the glycemic response in humans. *Food Science and Technology*, **2010**, 30, 282-288	2	8
68	Storage proteins and cell wall mobilisation in seeds of Sesbania virgata (Cav.) Pers. (Leguminosae). *Trees - Structure and Function*, **2010**, 24, 675-684	2.6	8
67	Effect of abscisic acid on the mobilisation of galactomannan and embryo development of Sesbania virgata (Cav.) Pers. (Leguminosae - Faboideae). *Revista Brasileira De Botanica*, **2002**, 25, 303	1.2	8
66	Feruloyl esterase from Aspergillus clavatus improves xylan hydrolysis of sugarcane bagasse. *AIMS Bioengineering*, **2016**, 4, 1-11	3.4	8
65	Flavonoids from duckweeds: potential applications in the human diet.. *RSC Advances*, **2020**, 10, 44981-44988	3.7	8
64	Discovery of clinically approved drugs capable of inhibiting SARS-CoV-2 in vitro infection using a phenotypic screening strategy and network-analysis to predict their potential to treat covid-19		8
63	Xyloglucan processing machinery in Xanthomonas pathogens and its role in the transcriptional activation of virulence factors. *Nature Communications*, **2021**, 12, 4049	17.4	8
62	The control of endopolygalacturonase expression by the sugarcane RAV transcription factor during aerenchyma formation. *Journal of Experimental Botany*, **2019**, 70, 497-506	7	7
61	Is guava phenolic metabolism influenced by elevated atmospheric CO2?. *Environmental Pollution*, **2015**, 196, 483-8	9.3	7
60	Bioenergy and the Sustainable Revolution **2011**, 15-26		7
59	Characterization of an extracellular endopolygalacturonase from the saprobe Mucor ramosissimus Samutsevitsch and its action as trigger of defensive response in tropical plants. *Mycopathologia*, **2006**, 162, 337-46	2.9	7
58	Effects of light stress on the growth of the epiphytic orchid Cattleya forbesii Lindl. X Laelia tenebrosa Rolfe. *Revista Brasileira De Botanica*, **2002**, 25, 229-235	1.2	7
57	The profile secretion of Aspergillus clavatus: Different pre-treatments of sugarcane bagasse distinctly induces holocellulases for the lignocellulosic biomass conversion into sugar. *Renewable Energy*, **2021**, 165, 748-757	8.1	7
56	Spatial-temporal variability of metal pollution across an industrial district, evidencing the environmental inequality in São Paulo. *Environmental Pollution*, **2020**, 263, 114583	9.3	6
55	Availability peak of caloric fruits coincides with energy-demanding seasons for resident and non-breeding birds in restinga, an ecosystem related to the Atlantic forest, Brazil. *Flora: Morphology, Distribution, Functional Ecology of Plants*, **2010**, 205, 647-655	1.9	6
54	Prospection of Fungal Lignocellulolytic Enzymes Produced from Jatoba () and Tamarind () Seeds: Scaling for Bioreactor and Saccharification Profile of Sugarcane Bagasse. *Microorganisms*, **2021**, 9,	4.9	6
53	Disassembling the Glycomic Code of Sugarcane Cell Walls to Improve Second-Generation Bioethanol Production **2019**, 31-43		6
52	Topological assessment of metabolic networks reveals evolutionary information. *Scientific Reports*, **2018**, 8, 15918	4.9	6

51	Um novo ecossistema: florestas urbanas construídas pelo Estado e pelos ativistas. *Estudos Avancados*, **2019**, 33, 81-102	0.6	5
50	High Saccharification, Low Lignin, and High Sustainability Potential Make Duckweeds Adequate as Bioenergy Feedstocks. *Bioenergy Research*, **2020**, 1	3.1	5
49	Melatonin-Index as a biomarker for predicting the distribution of presymptomatic and asymptomatic SARS-CoV-2 carriers. *Melatonin Research*, **2021**, 4, 189-205	5.1	5
48	Improved tree-ring visualization using autofluorescence. *Dendrochronologia*, **2019**, 55, 33-42	2.8	4
47	Stem and leaf functional traits allow successional classification in six pioneer and non-pioneer tree species in Tropical Moist Broadleaved Forests. *Ecological Indicators*, **2020**, 113, 106254	5.8	4
46	Nutritional reserves of Vochysiaceae seeds: chemical diversity and potential economic uses. *Anais Da Academia Brasileira De Ciencias*, **2011**, 83, 523-31	1.4	4
45	Anatomical and biochemical changes in the composition of developing seed coats of annatto (Bixa orellana L.). *Trees - Structure and Function*, **2009**, 23, 287-293	2.6	4
44	SUGARCANE AND CLIMATE CHANGE: EFFECTS OF CO2 ON POTENTIAL GROWTH AND DEVELOPMENT. *Acta Horticulturae*, **2008**, 331-336	0.3	4
43	Increased β-glucosidase production and its application in agroindustrial residue hydrolysis: A research based on experimental designs. *Biotechnology Reports (Amsterdam, Netherlands)*, **2021**, 30, e00618	5.3	4
42	Holocellulase production by filamentous fungi: potential in the hydrolysis of energy cane and other sugarcane varieties. *Biomass Conversion and Biorefinery*,1	2.3	4
41	Intra-annual oxygen isotopes in the tree rings record precipitation extremes and water reservoir levels in the Metropolitan Area of São Paulo, Brazil. *Science of the Total Environment*, **2020**, 743, 140798	10.2	3
40	Seed ontogeny and endosperm chemical analysis in Smilax polyantha (Smilacaceae). *Australian Journal of Botany*, **2012**, 60, 693	1.2	3
39	Ciência e políticas públicas nas cidades: revelações da pandemia da Covid-19. *Estudos Avancados*, **2020**, 34, 141-156	0.6	3
38	Análise sistêmica do município de São Paulo e suas implicações para o avanço dos casos de Covid-19. *Estudos Avancados*, **2020**, 34, 157-174	0.6	3
37	Evaluation of Setaria viridis physiological and gene expression responses to distinct water-deficit conditions. *Biotechnology Research and Innovation*, **2019**, 3, 42-58	10.1	3
36	Physical and chemical characterization of the 2019 âBlack rainâEvent in the Metropolitan Area of São Paulo, Brazil. *Atmospheric Environment*, **2021**, 248, 118229	5.3	3
35	Reply to: Brazilian ethanol expansion subject to limitations. *Nature Climate Change*, **2019**, 9, 211-212	21.4	3
34	Regulated deficit irrigation benefits the production of container-grown citrus nursery trees. *Trees - Structure and Function*, **2018**, 32, 1751-1766	2.6	2

33	Central and South America1499-1566		2
32	Diurnal changes in storage carbohydrate metabolism in cotyledons of the tropical tree Hymenaea courbaril L. (Leguminosae). *Revista Brasileira De Botanica*, **2012**, 35, 347-355	1.2	2
31	Differentiation of Tracheary Elements in Sugarcane Suspension Cells Involves Changes in Secondary Wall Deposition and Extensive Transcriptional Reprogramming. *Frontiers in Plant Science* , **2020**, 11, 617020	6.2	2
30	Senna reticulata: a Viable Option for Bioenergy Production in the Amazonian Region. *Bioenergy Research*, **2021**, 14, 91-105	3.1	2
29	The Effect of Sugarcane Straw Aging in the Field on Cell Wall Composition. *Frontiers in Plant Science* , **2021**, 12, 652168	6.2	2
28	Saccharification of different sugarcane bagasse varieties by enzymatic cocktails produced by Mycothermus thermophilus and Trichoderma reesei RP698 cultures in agro-industrial residues. *Energy*, **2021**, 226, 120360	7.9	2
27	Starch turnover is stimulated by nitric oxide in embryogenic cultures of Araucaria angustifolia. *Plant Cell, Tissue and Organ Culture*, **2021**, 147, 583	2.7	2
26	Sugarcane Cell Wall Structure and Degradation: From Monosaccharide Analyses to the Glycomic Code **2017**, 7-19		1
25	Policy and Diplomacy in the Production of Second Generation Ethanol in Brazil: International Relations with the EU, the USA and Africa **2017**, 197-212		1
24	Thermal degradation of leaves from the Amazon rainforest litter considering non-structural, structural carbohydrates and lignin composition. *Bioresource Technology Reports*, **2020**, 11, 100490	4.1	1
23	Matrix Discriminant Analysis Evidenced Surface-Lithium as an Important Factor to Increase the Hydrolytic Saccharification of Sugarcane Bagasse. *Molecules*, **2019**, 24,	4.8	1
22	Cell wall polysaccharides from cell suspension cultures of the Atlantic Forest tree Rudgea jasminoides (Rubiaceae). *Trees - Structure and Function*, **2010**, 24, 713-722	2.6	1
21	Axillary bud development in pineapple nodal segments correlates with changes on cell cycle gene expression, hormone level, and sucrose and glutamate contents. *In Vitro Cellular and Developmental Biology - Plant*, **2010**, 46, 281-288	2.3	1
20	Biosynthesis in vitro of high-molecular-mass fructan by cell-free extracts from tuberous roots of Viguiera discolor (Asteraceae). *New Phytologist*, **1997**, 136, 53-60	9.8	1
19	Tecnologias e sustentabilidade nas cidades. *Estudos Avancados*, **2019**, 33, 137-150	0.6	1
18	ROUTES FOR CELLULOSIC ETHANOL IN BRAZIL365-380		1
17	Sustentabilidade urbana: dimensões conceituais e instrumentos legais de implementação. *Estudos Avancados*, **2019**, 33, 61-80	0.6	1
16	Climate drivers of tree fall on the streets of São Paulo, Brazil. *Trees - Structure and Function*,1	2.6	1

15	Transcriptomics and Genetics Associated with Plant Responses to Elevated CO2 Atmospheric Concentrations **2016**, 67-83		1
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