Marcos S Buckeridge

List of Publications by Year in Descending Order

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	Selective xyloglucan oligosaccharide hydrolysis by a GH31 α-xylosidase from Escherichia coli.. *Carbohydrate Polymers*, **2022**, 284, 119150	10.3	0
175	Biochemical composition of the pericarp cell wall of popcorn inbred lines with different popping expansion.. *Current Research in Food Science*, **2022**, 5, 102-106	5.6	0
174	Duckweeds as Promising Food Feedstocks Globally. *Agronomy*, **2022**, 12, 796	3.6	1
173	Bioinformatic analyses to uncover genes involved in trehalose metabolism in the polyploid sugarcane.. *Scientific Reports*, **2022**, 12, 7516	4.9	0
172	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
171	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
170	Xyloglucan processing machinery in Xanthomonas pathogens and its role in the transcriptional activation of virulence factors. *Nature Communications*, **2021**, 12, 4049	17.4	8
169	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
168	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
167	Senna reticulata: a Viable Option for Bioenergy Production in the Amazonian Region. *Bioenergy Research*, **2021**, 14, 91-105	3.1	2
166	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
165	The Effect of Sugarcane Straw Aging in the Field on Cell Wall Composition. *Frontiers in Plant Science* , **2021**, 12, 652168	6.2	2
164	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
163	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
162	Governanã da Água na Regiã Metropolitana de Sã Paulo - desafios à luz das mudanãs climãticas. *Estudos Avancados*, **2021**, 35, 209-226	0.6	1
161	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
160	Will climate change shift carbon allocation and stem hydraulics? Insights on a systemic view of carbon- and water-related wood traits in an anysohydric tropical tree species (Hymenaea courbaril, Leguminosae). *Ecological Indicators*, **2021**, 128, 107798	5.8	0

159	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
158	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
157	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
156	A Halotolerant Endo-1,4-β-Xylanase from Aspergillus clavatus with Potential Application for Agroindustrial Residues Saccharification. *Applied Biochemistry and Biotechnology*, **2020**, 191, 1111-1126	3.2	10
155	A Highly Glucose Tolerant β-Glucosidase from Malbranchea pulchella (MpBg3) Enables Cellulose Saccharification. *Scientific Reports*, **2020**, 10, 6998	4.9	11
154	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
153	Ciência e políticas públicas nas cidades: revelações da pandemia da Covid-19. *Estudos Avancados*, **2020**, 34, 141-156	0.6	3
152	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
151	Importance of Meta-analysis in Studies Involving Plant Responses to Climate Change in Brazil. *Lecture Notes in Computer Science*, **2020**, 221-234	0.9	0
150	Flavonoids from duckweeds: potential applications in the human diet.. *RSC Advances*, **2020**, 10, 44981-44988	3.9	8
149	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
148	High Saccharification, Low Lignin, and High Sustainability Potential Make Duckweeds Adequate as Bioenergy Feedstocks. *Bioenergy Research*, **2020**, 1	3.1	5
147	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
146	Lignin plays a key role in determining biomass recalcitrance in forage grasses. *Renewable Energy*, **2020**, 147, 2206-2217	8.1	23
145	Newly identified miRNAs may contribute to aerenchyma formation in sugarcane roots. *Plant Direct*, **2020**, 4, e00204	3.3	1
144	The control of endopolygalacturonase expression by the sugarcane RAV transcription factor during aerenchyma formation. *Journal of Experimental Botany*, **2019**, 70, 497-506	7	7
143	Cell wall hydrolases act in concert during aerenchyma development in sugarcane roots. *Annals of Botany*, **2019**, 124, 1067-1089	4.1	10
142	Efficient hydrolysis of wine and grape juice anthocyanins by Malbranchea pulchella β-glucosidase immobilized on MANAE-agarose and ConA-Sepharose supports. *International Journal of Biological Macromolecules*, **2019**, 136, 1133-1141	7.9	10

141	An actinobacteria lytic polysaccharide monooxygenase acts on both cellulose and xylan to boost biomass saccharification. *Biotechnology for Biofuels*, **2019**, 12, 117	7.8	21
140	Improved tree-ring visualization using autofluorescence. *Dendrochronologia*, **2019**, 55, 33-42	2.8	4
139	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
138	Nutrient and drought stress: implications for phenology and biomass quality in miscanthus. *Annals of Botany*, **2019**, 124, 553-566	4.1	12
137	Hydrogen peroxide-acetic acid pretreatment increases the saccharification and enzyme adsorption on lignocellulose. *Industrial Crops and Products*, **2019**, 140, 111657	5.9	34
136	BioNetStat: A Tool for Biological Networks Differential Analysis. *Frontiers in Genetics*, **2019**, 10, 594	4.5	12
135	Matrix Discriminant Analysis Evidenced Surface-Lithium as an Important Factor to Increase the Hydrolytic Saccharification of Sugarcane Bagasse. *Molecules*, **2019**, 24,	4.8	1
134	Um novo ecossistema: florestas urbanas construídas pelo Estado e pelos ativistas. *Estudos Avancados*, **2019**, 33, 81-102	0.6	5
133	Tecnologias e sustentabilidade nas cidades. *Estudos Avancados*, **2019**, 33, 137-150	0.6	1
132	Sustentabilidade urbana: dimensões conceituais e instrumentos legais de implementação. *Estudos Avancados*, **2019**, 33, 61-80	0.6	1
131	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
130	Reply to: Brazilian ethanol expansion subject to limitations. *Nature Climate Change*, **2019**, 9, 211-212	21.4	3
129	Disassembling the Glycomic Code of Sugarcane Cell Walls to Improve Second-Generation Bioethanol Production **2019**, 31-43		6
128	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
127	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
126	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
125	Roles of auxin and ethylene in aerenchyma formation in sugarcane roots. *Plant Signaling and Behavior*, **2018**, 13, e1422464	2.5	12
124	The evolution of the Glycomic Codes of extracellular matrices. *BioSystems*, **2018**, 164, 112-120	1.9	14

123	Tree rings reveal the reduction of Cd, Cu, Ni and Pb pollution in the central region of São Paulo, Brazil. *Environmental Pollution*, **2018**, 242, 320-328	9.3	21
122	Regulated deficit irrigation benefits the production of container-grown citrus nursery trees. *Trees - Structure and Function*, **2018**, 32, 1751-1766	2.6	2
121	Correlation of Apiose Levels and Growth Rates in Duckweeds. *Frontiers in Chemistry*, **2018**, 6, 291	5	14
120	Topological assessment of metabolic networks reveals evolutionary information. *Scientific Reports*, **2018**, 8, 15918	4.9	6
119	Diurnal variation in gas exchange and nonstructural carbohydrates throughout sugarcane development. *Functional Plant Biology*, **2018**, 45, 865-876	2.7	15
118	Sugarcane Cell Wall Structure and Degradation: From Monosaccharide Analyses to the Glycomic Code **2017**, 7-19		1
117	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
116	Routes to Second-Generation Bioethanol in Brazil: Foundation of the National Institute of Science and Technology of Bioethanol **2017**, 1-4		0
115	Xyloglucan breakdown by endo-xyloglucanase family 74 from Aspergillus fumigatus. *Applied Microbiology and Biotechnology*, **2017**, 101, 2893-2903	5.7	17
114	Brazilian sugarcane ethanol as an expandable green alternative to crude oil use. *Nature Climate Change*, **2017**, 7, 788-792	21.4	87
113	Carbohydrate-mediated responses during zygotic and early somatic embryogenesis in the endangered conifer, Araucaria angustifolia. *PLoS ONE*, **2017**, 12, e0180051	3.7	15
112	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
111	Cell wall changes during the formation of aerenchyma in sugarcane roots. *Annals of Botany*, **2017**, 120, 693-708	4.1	17
110	Unpacking Brazilâ Leadership in the Global Biofuels Arena: Brazilian Ethanol Diplomacy in Africa. *Global Environmental Politics*, **2016**, 16, 127-150	2.6	11
109	Eucalyptus Cell Wall Architecture: Clues for Lignocellulosic Biomass Deconstruction. *Bioenergy Research*, **2016**, 9, 969-979	3.1	9
108	Characterization of sugarcane (Saccharum spp.) leaf senescence: implications for biofuel production. *Biotechnology for Biofuels*, **2016**, 9, 153	7.8	17
107	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
106	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

105	Co-expression network analysis reveals transcription factors associated to cell wall biosynthesis in sugarcane. *Plant Molecular Biology*, **2016**, 91, 15-35	4.6	51
104	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
103	Feruloyl esterase from Aspergillus clavatus improves xylan hydrolysis of sugarcane bagasse. *AIMS Bioengineering*, **2016**, 4, 1-11	3.4	8
102	"Mas de que te serve saber botânica?". *Estudos Avancados*, **2016**, 30, 177-196	0.6	13
101	Pectins, Endopolygalacturonases, and Bioenergy. *Frontiers in Plant Science*, **2016**, 7, 1401	6.2	34
100	Transcriptomics and Genetics Associated with Plant Responses to Elevated CO2 Atmospheric Concentrations **2016**, 67-83		1
99	Apoplastic and intracellular plant sugars regulate developmental transitions in witches' broom disease of cacao. *Journal of Experimental Botany*, **2015**, 66, 1325-37	7	17
98	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
97	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 São Paulo State coast, Brazil. *Marine Policy*, **2015**, 57, 85-92	3.5	9
96	Do plant cell walls have a code?. *Plant Science*, **2015**, 241, 286-94	5.3	16
95	How cell wall complexity influences saccharification efficiency in Miscanthus sinensis. *Journal of Experimental Botany*, **2015**, 66, 4351-65	7	58
94	Is guava phenolic metabolism influenced by elevated atmospheric CO2?. *Environmental Pollution*, **2015**, 196, 483-8	9.3	7
93	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
92	Árvores urbanas em São Paulo: planejamento, economia e água. *Estudos Avancados*, **2015**, 29, 85-101	0.6	11
91	Comparative Secretome Analysis of Trichoderma reesei and Aspergillus niger during Growth on Sugarcane Biomass. *PLoS ONE*, **2015**, 10, e0129275	3.7	76
90	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
89	Breaking the âGlycomic Codeâof Cell Wall Polysaccharides May Improve Second-Generation Bioenergy Production from Biomass. *Bioenergy Research*, **2014**, 7, 1065-1073	3.1	35
88	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

87	Using Natural Plant Cell Wall Degradation Mechanisms to Improve Second Generation Bioethanol **2014**, 211-230		11
86	Sugarcane as a Bioenergy Source: History, Performance, and Perspectives for Second-Generation Bioethanol. *Bioenergy Research*, **2014**, 7, 24-35	3.1	74
85	Influence of potassium and sodium nutrition on leaf area components in Eucalyptus grandis trees. *Plant and Soil*, **2013**, 371, 19-35	4.2	40
84	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
83	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
82	Global environmental changes: setting priorities for Latin American coastal habitats. *Global Change Biology*, **2013**, 19, 1965-9	11.4	40
81	Composition and Structure of Sugarcane Cell Wall Polysaccharides: Implications for Second-Generation Bioethanol Production. *Bioenergy Research*, **2013**, 6, 564-579	3.1	171
80	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
79	Galacturonosyltransferase 4 silencing alters pectin composition and carbon partitioning in tomato. *Journal of Experimental Botany*, **2013**, 64, 2449-66	7	23
78	Physiological limitations in two sugarcane varieties under water suppression and after recovering. *Theoretical and Experimental Plant Physiology*, **2013**, 25, 213-222	2.4	35
77	Ethanol from sugarcane in Brazil: a âhidwayâstrategy for increasing ethanol production while maximizing environmental benefits. *GCB Bioenergy*, **2012**, 4, 119-126	5.6	39
76	Cellulose crystals in fibrovascular bundles of sugarcane culms: orientation, size, distortion, and variability. *Cellulose*, **2012**, 19, 1507-1515	5.5	21
75	Functional characterization and oligomerization of a recombinant xyloglucan-specific endo-1,4-glucanase (GH12) from Aspergillus niveus. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2012**, 1824, 461-7	4	39
74	Seed ontogeny and endosperm chemical analysis in Smilax polyantha (Smilacaceae). *Australian Journal of Botany*, **2012**, 60, 693	1.2	3
73	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
72	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
71	Bioenergy and the Sustainable Revolution **2011**, 15-26		7
70	Nutritional reserves of Vochysiaceae seeds: chemical diversity and potential economic uses. *Anais Da Academia Brasileira De Ciencias*, **2011**, 83, 523-31	1.4	4

69	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
68	Routes to Cellulosic Ethanol **2011**,		17
67	Scientific challenges of bioethanol production in Brazil. *Applied Microbiology and Biotechnology*, **2011**, 91, 1267-75	5.7	215
66	Carbohydrate composition of ripe pineapple (cv. perola) and the glycemic response in humans. *Food Science and Technology*, **2010**, 30, 282-288	2	8
65	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
64	Seed cell wall storage polysaccharides: models to understand cell wall biosynthesis and degradation. *Plant Physiology*, **2010**, 154, 1017-23	6.6	145
63	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
62	Impacts of climate changes on crop physiology and food quality. *Food Research International*, **2010**, 43, 1814-1823	7	197
61	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
60	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
59	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
58	The Biotechnology Roadmap for Sugarcane Improvement. *Tropical Plant Biology*, **2010**, 3, 75-87	1.6	56
57	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
56	Bioethanol from lignocelluloses: Status and perspectives in Brazil. *Bioresource Technology*, **2010**, 101, 4820-5	11	282
55	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
54	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
53	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
52	Elevated CO2 increases photosynthesis, biomass and productivity, and modifies gene expression in sugarcane. *Plant, Cell and Environment*, **2008**, 31, 1116-27	8.4	173

51	SUGARCANE AND CLIMATE CHANGE: EFFECTS OF CO2 ON POTENTIAL GROWTH AND DEVELOPMENT. *Acta Horticulturae*, **2008**, 331-336	0.3	4
50	Novo método enzimático rápido e sensível de extração e dosagem de amido em materiais vegetais. *Hoehnea (revista)*, **2007**, 34, 425-431	1	89
49	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
48	Isolamento de oligossacarídeos de xiloglucano de dicotiledôneas através de hidrólise enzimática e cromatografia de exclusão molecular. *Revista Brasileira De Botanica*, **2006**, 29, 391	1.2	
47	Fine structure of a mixed-oligomer storage xyloglucan from seeds of Hymenaea courbaril. *Carbohydrate Polymers*, **2006**, 66, 444-454	10.3	38
46	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
45	Effect of abscisic acid on galactomannan degradation and endo-β-mannanase activity in seeds of Sesbania virgata (Cav.) Pers. (Leguminosae). *Trees - Structure and Function*, **2006**, 20, 669-678	2.6	9
44	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
43	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
42	Physico-chemical properties of seed xyloglucans from different sources. *Carbohydrate Polymers*, **2005**, 60, 507-514	10.3	70
41	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
40	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
39	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
38	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
37	Xyloglucan-cellulose interaction depends on the sidechains and molecular weight of xyloglucan. *Plant Physiology and Biochemistry*, **2004**, 42, 389-94	5.4	61
36	The control of storage xyloglucan mobilization in cotyledons of Hymenaea courbaril. *Plant Physiology*, **2004**, 135, 287-99	6.6	30
35	Mixed Linkage (1->3),(1->4)-β-d-Glucans of Grasses. *Cereal Chemistry*, **2004**, 81, 115-127	2.4	126
34	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

33	Galactose branching modulates the action of cellulase on seed storage xyloglucans. *Carbohydrate Polymers*, **2003**, 52, 135-141	10.3	20
32	Seed storage hemicelluloses as wet-end additives in papermaking. *Carbohydrate Polymers*, **2003**, 52, 367-373	10.3	104
31	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
30	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
29	Effect of atmospheric CO2 enrichment on the establishment of seedlings of Jatob Hymenaea Courbaril L. (Leguminosae, Caesalpinioideae). *Biota Neotropica*, **2002**, 2, 1-10		27
28	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
27	Interaction between cellulose and storage xyloglucans: the influence of the degree of galactosylation. *Carbohydrate Polymers*, **2001**, 46, 157-163	10.3	41
26	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
25	Patterns of expression of cell wall related genes in sugarcane. *Genetics and Molecular Biology*, **2001**, 24, 191-198	2	19
24	Temperature-dependent germination and endo-beta -mannanase activity in sesame seeds. *Brazilian Journal of Plant Physiology*, **2001**, 13, 139-148		22
23	Monomer composition of polysaccharides of seed cell walls and the taxonomy of the Vochysiaceae. *Phytochemistry*, **2000**, 55, 581-7	4	12
22	Mobilisation of storage cell wall polysaccharides in seeds. *Plant Physiology and Biochemistry*, **2000**, 38, 141-156	5.4	166
21	Xyloglucan mobilisation in cotyledons of developing plantlets of Hymenaea courbaril L. (Leguminosae-Caesalpinoideae). *Plant Science*, **2000**, 154, 117-126	5.3	48
20	Galactomannans as the reserve carbohydrate in legume seeds. *Developments in Crop Science*, **2000**, 283-316		27
19	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
18	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
17	Xyloglucan mobilisation and purification of a (XLLG/XLXG) specific galactosidase from cotyledons of Copaifera langsdorffii. *Plant Physiology and Biochemistry*, **1999**, 37, 653-663	5.4	37
16	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

15	A new family of oligosaccharides from the xyloglucan of Hymenaea courbaril L. (Leguminosae) cotyledons. *Carbohydrate Research*, **1997**, 303, 233-7	2.9	67
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