Wim Van den Ende

List of Publications by Year
in descending order

177 papers	10,997 citations	22153 59 h-index	37204 96 g-index
179 all docs	179 docs citations	179 times ranked	9280 citing authors

#	Article	IF	Citations
1	Plant sugars are crucial players in the oxidative challenge during abiotic stress: extending the traditional concept. Plant, Cell and Environment, 2013, 36, 1242-1255.	5.7	626
2	Sugar signalling and antioxidant network connections in plant cells. FEBS Journal, 2010, 277, 2022-2037.	4.7	433
3	Sucrose, sucrosyl oligosaccharides, and oxidative stress: scavenging and salvaging?. Journal of Experimental Botany, 2008, 60, 9-18.	4.8	325
4	Plant fructans in stress environments: emerging concepts and future prospects. Journal of Experimental Botany, 2008, 59, 2905-2916.	4.8	321
5	Sugars and plant innate immunity. Journal of Experimental Botany, 2012, 63, 3989-3998.	4.8	307
6	Myo-inositol and beyond â€“ Emerging networks under stress. Plant Science, 2011, 181, 387-400.	3.6	288
7	Multifunctional fructans and raffinose family oligosaccharides. Frontiers in Plant Science, 2013, 4, 247.	3.6	257
8	Linking Autophagy to Abiotic and Biotic Stress Responses. Trends in Plant Science, 2019, 24, 413-430.	8.8	203
9	Towards understanding vacuolar antioxidant mechanisms: a role for fructans?. Journal of Experimental Botany, 2013, 64, 1025-1038.	4.8	201
10	Structural insights into glycoside hydrolase family 32 and 68 enzymes: functional implications. Journal of Experimental Botany, 2009, 60, 727-740.	4.8	187
11	Structure, Evolution, and Expression of the Two Invertase Gene Families of Rice. Journal of Molecular Evolution, 2005, 60, 615-634.	1.8	182
12	Cold tolerance triggered by soluble sugars: a multifaceted countermeasure. Frontiers in Plant Science, 2015, 6, 203.	3.6	174
13	The food additives inulin and stevioside counteract oxidative stress. International Journal of Food Sciences and Nutrition, 2011, 62, 207-214.	2.8	162
14	Fructans: Prebiotics and immunomodulators. Journal of Functional Foods, 2014, 8, 348-357.	3.4	147
15	Sucrose signaling pathways leading to fructan and anthocyanin accumulation: A dual function in abiotic and biotic stress responses?. Environmental and Experimental Botany, 2014, 108, 4-13.	4.2	143
16	Fructan 1-Exohydrolases. Î²-(2,1)-Trimmers during Graminan Biosynthesis in Stems of Wheat? Purification, Characterization, Mass Mapping, and Cloning of Two Fructan 1-Exohydrolase Isoforms,. Plant Physiology, 2003, 131, 621-631.	4.8	137
17	Exploring the neutral invertaseâ€“oxidative stress defence connection in Arabidopsis thaliana. Journal of Experimental Botany, 2011, 62, 3849-3862.	4.8	135
18	Extraction of high-quality genomic DNA from latex-containing plants. Analytical Biochemistry, 2003, 315, 85-89.	2.4	128

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19	Drought induces fructan synthesis and 1-SST (sucrose: sucrose fructosyltransferase) in roots and leaves of chicory seedlings (Cichorium intybus L.). Planta, 2000, 210, 808-814.	3.2	123
20	Arabidopsis AtcwINV3 and 6 are not invertases but are fructan exohydrolases (FEHs) with different substrate specificities. Plant, Cell and Environment, 2005, 28, 432-443.	5.7	122
21	Plant fructan exohydrolases: a role in signaling and defense?. Trends in Plant Science, 2004, 9, 523-528.	8.8	116
22	Xâ€ray diffraction structure of a plant glycosyl hydrolase family 32 protein: fructan 1â€exohydrolase IIa ofCichorium intybus. Plant Journal, 2005, 41, 400-411.	5.7	107
23	Unraveling the Difference between Invertases and Fructan Exohydrolases: A Single Amino Acid (Asp-239) Substitution Transforms Arabidopsis Cell Wall Invertase1 into a Fructan 1-Exohydrolase. Plant Physiology, 2007, 145, 616-625.	4.8	106
24	The role of fructan in flowering of Campanula rapunculoides. Journal of Experimental Botany, 2000, 51, 1261-1266.	4.8	101
25	Vacuolar protein sorting mechanisms in plants. FEBS Journal, 2013, 280, 979-993.	4.7	99
26	Sweet immunity in the plant circadian regulatory network. Journal of Experimental Botany, 2013, 64, 1439-1449.	4.8	99
27	Sugars as hydroxyl radical scavengers: proofâ€ofâ€concept by studying the fate of sucralose in Arabidopsis. Plant Journal, 2015, 82, 822-839.	5.7	99
28	Sucrose Induction of Anthocyanin Biosynthesis Is Mediated by DELLA. Molecular Plant, 2014, 7, 570-572.	8.3	98
29	The metabolism of fructans in roots of Cichorium intybus during growth, storage and forcing. New Phytologist, 1996, 132, 555-563.	7.3	96
30	Structural insights into the pH-controlled targeting of plant cell-wall invertase by a specific inhibitor protein. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17427-17432.	7.1	96
31	Cereal grain fructans: Structure, variability and potential health effects. Trends in Food Science and Technology, 2015, 43, 32-42.	15.1	95
32	Sugars, the clock and transition to flowering. Frontiers in Plant Science, 2013, 4, 22.	3.6	94
33	Freezing tolerance by vesicle-mediated fructan transport. Trends in Plant Science, 2008, 13, 409-414.	8.8	89
34	Influence of Environmental Factors Light, CO2, Temperature, and Relative Humidity on Stomatal Opening and Development: A Review. Agronomy, 2020, 10, 1975.	3.0	89
35	Spatio-Temporal Dynamics of Fructan Metabolism in Developing Barley Grains. Plant Cell, 2014, 26, 3728-3744.	6.6	88
36	Defoliation Induces Fructan 1-Exohydrolase II in Witloof Chicory Roots. Cloning and Purification of Two Isoforms, Fructan 1-Exohydrolase IIa and Fructan 1-Exohydrolase IIb. Mass Fingerprint of the Fructan 1-Exohydrolase II Enzymes. Plant Physiology, 2001, 126, 1186-1195.	4.8	86

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37	Purification, cloning and functional characterization of a fructan 6-exohydrolase from wheat (Triticum aestivum L.). Journal of Experimental Botany, 2006, 57, 213-223.	4.8	85
38	Climate Extreme Effects on the Chemical Composition of Temperate Grassland Species under Ambient and Elevated CO2: A Comparison of Fructan and Non-Fructan Accumulators. PLoS ONE, 2014, 9, e92044.	2.5	84
39	The fructan syndrome: Evolutionary aspects and common themes among plants and microbes. Plant, Cell and Environment, 2018, 41, 16-38.	5.7	84
40	Cloning, characterization and functional analysis of novel 6â€kestose exohydrolases (6â€KEHs) from wheat (Triticum aestivum). New Phytologist, 2005, 166, 917-932.	7.3	82
41	A Simple and Accurate Method for Determining Wheat Grain Fructan Content and Average Degree of Polymerization. Journal of Agricultural and Food Chemistry, 2012, 60, 2102-2107.	5.2	81
42	Cloning and functional analysis of chicory root fructan1-exohydrolase I (1-FEH I): a vacuolar enzyme derivedfrom a cell-wall invertase ancestor? Mass fingerprint of the 1-FEH I enzyme. Plant Journal, 2000, 24, 447-456.	5.7	80
43	UDP-dependent glycosyltransferases involved in the biosynthesis of steviol glycosides. Journal of Plant Physiology, 2011, 168, 1136-1141.	3.5	79
44	De-novo synthesis of fructans from sucrose in vitro by a combination of two purified enzymes (sucrose: sucrose 1-fructosyl transferase and fructan: fructan 1-fructosyl transferase) from chicory roots (Cichorium intybus L.). Planta, 1996, 200, 335-342.	3.2	74
45	Properties of Fructan:Fructan 1-Fructosyltransferases from Chicory and Globe Thistle, Two Asteracean Plants Storing Greatly Different Types of Inulin. Plant Physiology, 2003, 133, 391-401.	4.8	72
46	Fructan synthesizing and degrading activities in chicory roots (Cichorium intybus L.) during field-growth, storage and forcing. Journal of Plant Physiology, 1996, 149, 43-50.	3.5	71
47	Prebiotics to Fight Diseases: Reality or Fiction?. Phytotherapy Research, 2013, 27, 1457-1473.	5.8	70
48	Donor and acceptor substrate selectivity among plant glycoside hydrolase family 32 enzymes. FEBS Journal, 2009, 276, 5788-5798.	4.7	68
49	Fructan Biosynthetic and Breakdown Enzymes in Dicots Evolved From Different Invertases. Expression of Fructan Genes Throughout Chicory Development. Scientific World Journal, The, 2002, 2, 1281-1295.	2.1	67
50	Crystal Structures of Arabidopsis thaliana Cell-Wall Invertase Mutants in Complex with Sucrose. Journal of Molecular Biology, 2008, 377, 378-385.	4.2	67
51	Dynamics of metabolic responses to periods of combined heat and drought in Arabidopsis thaliana under ambient and elevated atmospheric CO2. Journal of Experimental Botany, 2018, 69, 2159-2170.	4.8	67
52	Autophagy in Plants: Both a Puppet and a Puppet Master of Sugars. Frontiers in Plant Science, 2019, 10, 14.	3.6	67
53	Insights into the fine architecture of the active site of chicory fructan 1â€exohydrolase: 1â€kestose as substrate vs sucrose as inhibitor. New Phytologist, 2007, 174, 90-100.	7.3	66
54	Comparison of fructan dynamics in two wheat cultivars with different capacities of accumulation and remobilization under drought stress. Physiologia Plantarum, 2012, 144, 1-12.	5.2	65

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55	X-ray diffraction structure of a cell-wall invertase fromArabidopsis thaliana. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1555-1563.	2.5	64
56	Cloning, Developmental, and Tissue-Specific Expression of Sucrose:Sucrose 1-Fructosyl Transferase from Taraxacum officinale. Fructan Localization in Roots. Plant Physiology, 2000, 123, 71-80.	4.8	63
57	A wheat 1â€<scp>FEH</scp> w3 variant underlies enzyme activity for stem <scp>WSC</scp> remobilization to grain under drought. New Phytologist, 2015, 205, 293-305.	7.3	63
58	Unexpected presence of fructan 6-exohydrolases (6-FEHs) in non-fructan plants: characterization, cloning, mass mapping and functional analysis of a novel â€˜cell-wall invertase-likeâ€™ specific 6-FEH from sugar beet (Beta vulgaris L.). Plant Journal, 2003, 36, 697-710.	5.7	61
59	Molecular cloning and functional analysis of a novel 6&1-FEH from wheat (Triticum aestivum L.) preferentially degrading small graminans like bifurcose. Gene, 2005, 358, 93-101.	2.2	60
60	Molecular and functional characterization of a cDNA encoding fructan:fructan 6G-fructosyltransferase (6G-FFT)/fructan:fructan 1-fructosyltransferase (1-FFT) from perennial ryegrass (Lolium perenne L.). Journal of Experimental Botany, 2006, 57, 2719-2734.	4.8	60
61	Expression analysis of a chicory fructan 1-exohydrolase gene reveals complex regulation by cold. Journal of Experimental Botany, 2004, 55, 1325-1333.	4.8	58
62	The rice genome encodes two vacuolar invertases with fructan exohydrolase activity but lacks the related fructan biosynthesis genes of the Pooideae. New Phytologist, 2007, 173, 50-62.	7.3	58
63	UDP-Glucose: A Potential Signaling Molecule in Plants?. Frontiers in Plant Science, 2017, 8, 2230.	3.6	58
64	Cloning, gene mapping, and functional analysis of a fructan 1-exohydrolase (1-FEH) from Lolium perenne implicated in fructan synthesis rather than in fructan mobilization. Journal of Experimental Botany, 2007, 58, 1969-1983.	4.8	57
65	Sugar ratios, glutathione redox status and phenols in the resurrection species Haberlea rhodopensis and the closely related nonâ€resurrection species Chirita eberhardtii. Plant Biology, 2011, 13, 767-776.	3.8	57
66	Transforming wheat vacuolar invertase into a high affinity sucrose:sucrose 1â€fructosyltransferase. New Phytologist, 2008, 180, 822-831.	7.3	55
67	Sweet Immunity: Inulin Boosts Resistance of Lettuce (Lactuca sativa) against Grey Mold (Botrytis) Tj ETQq1 1 0.784314 rgBT /Overlock	4.1	54
68	Fructan accumulation induced by nitrogen deficiency in barley leaves correlates with the level of sucrose:fructan 6-fructosyltransferase mRNA. Planta, 2000, 211, 701-707.	3.2	53
69	Unexpected Presence of Graminan- and Levan-Type Fructans in the Evergreen Frost-Hardy Eudicot Pachysandra terminalis (Buxaceae): Purification, Cloning, and Functional Analysis of a 6-SST/6-SFT Enzyme Â. Plant Physiology, 2011, 155, 603-614.	4.8	53
70	Purification and properties of a second fructan exohydrolase from the roots of Cichorium intybus. Physiologia Plantarum, 1999, 106, 28-34.	5.2	52
71	Understanding the Role of Defective Invertases in Plants: Tobacco Nin88 Fails to Degrade Sucrose Â. Plant Physiology, 2013, 161, 1670-1681.	4.8	52
72	Sweet Scents: Nectar Specialist Yeasts Enhance Nectar Attraction of a Generalist Aphid Parasitoid Without Affecting Survival. Frontiers in Plant Science, 2018, 9, 1009.	3.6	52

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73	Glycation of Plant Proteins: Regulatory Roles and Interplay with Sugar Signalling?. International Journal of Molecular Sciences, 2019, 20, 2366.	4.1	51
74	In vitro synthesis of fractofuranosyl-only oligosaccharides from inulin and fructose by purified chicory root fructan:fructan fructosyl transferase. Physiologia Plantarum, 1996, 97, 346-352.	5.2	50
75	Fructans as Immunomodulatory and Antiviral Agents: The Case of Echinacea. Biomolecules, 2019, 9, 615.	4.0	50
76	Transforming a Fructan:Fructan 6G-Fructosyltransferase from Perennial Ryegrass into a Sucrose:Sucrose 1-Fructosyltransferase Â. Plant Physiology, 2009, 149, 327-339.	4.8	49
77	Fructan Metabolism in Developing Wheat (Triticum aestivum L.) Kernels. Plant and Cell Physiology, 2013, 54, 2047-2057.	3.1	49
78	Sugars take a central position in plant growth, development and, stress responses. A focus on apical dominance. Frontiers in Plant Science, 2014, 5, 313.	3.6	47
79	Discovery of fructans in Archaea. Carbohydrate Polymers, 2019, 220, 149-156.	10.2	46
80	The impact of yeast presence in nectar on bumble bee behavior and fitness. Ecological Monographs, 2020, 90, e01393.	5.4	46
81	Purification and characterization of fructan: fructan fructosyl transferase from chicory (Cichorium) Tj ETQq1 1 0.784314 rgBT /Overlo	3.2	45
82	Landscape scale variation in nectar amino acid and sugar composition in a Lepidoptera pollinated orchid species and its relation with fruit set. Journal of Ecology, 2014, 102, 136-144.	4.0	45
83	Crystal structure of 6â€šST/6â€šFT from Pachysandra terminalis, a plant fructan biosynthesizing enzyme in complex with its acceptor substrate 6â€kestose. Plant Journal, 2012, 70, 205-219.	5.7	44
84	Fructans As DAMPs or MAMPs: Evolutionary Prospects, Cross-Tolerance, and Multistress Resistance Potential. Frontiers in Plant Science, 2016, 7, 2061.	3.6	44
85	Purification and properties of a neutral invertase from the roots of Cichorium intybus. Physiologia Plantarum, 1995, 93, 241-248.	5.2	43
86	Cloning and functional analysis of a high DP fructan:fructan 1-fructosyl transferase from Echinops ritro (Asteraceae): comparison of the native and recombinant enzymes. Journal of Experimental Botany, 2006, 57, 775-789.	4.8	43
87	Knock-Down of Arabidopsis PLC5 Reduces Primary Root Growth and Secondary Root Formation While Overexpression Improves Drought Tolerance and Causes Stunted Root Hair Growth. Plant and Cell Physiology, 2018, 59, 2004-2019.	3.1	41
88	Neutral invertase, hexokinase and mitochondrial ROS homeostasis. Plant Signaling and Behavior, 2011, 6, 1567-1573.	2.4	39
89	Sugars as Antioxidants in Plants. , 2013, , 285-307.		39
90	Fructan biosynthesis and degradation as part of plant metabolism controlling sugar fluxes during durum wheat kernel maturation. Frontiers in Plant Science, 2015, 6, 89.	3.6	39

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91	Nectar bacteria affect life history of a generalist aphid parasitoid by altering nectar chemistry. Functional Ecology, 2017, 31, 2061-2069.	3.6	39
92	Effect of nitrogen concentration on fructan and fructan metabolizing enzymes in young chicory plants (Cichorium intybus). Physiologia Plantarum, 1999, 105, 2-8.	5.2	38
93	Effect of defoliation on fructan pattern and fructan metabolizing enzymes in young chicory plants (Cichorium intybus). Physiologia Plantarum, 1999, 106, 158-163.	5.2	38
94	Cloning and heterologous expression of early genes in gibberellin and steviol biosynthesis via the methylerythritol phosphate pathway in Stevia rebaudiana. Canadian Journal of Botany, 2003, 81, 517-522.	1.1	38
95	Purification and characterization of 1-SST, the key enzyme initiating fructan biosynthesis in young chicory roots (Cichorium intybus). Physiologia Plantarum, 1996, 98, 455-466.	5.2	37
96	Starch biosynthesis contributes to the maintenance of photosynthesis and leaf growth under drought stress in maize. Plant, Cell and Environment, 2020, 43, 2254-2271.	5.7	37
97	Wheat genotypic variation in dynamic fluxes of WSC components in different stem segments under drought during grain filling. Frontiers in Plant Science, 2015, 6, 624.	3.6	36
98	Experimental fertilization increases amino acid content in floral nectar, fruit set and degree of selfing in the orchid Gymnadenia conopsea. Oecologia, 2015, 179, 785-795.	2.0	35
99	Purification and properties of a neutral invertase from the roots of Cichorium intybus. Physiologia Plantarum, 1995, 93, 241-248.	5.2	35
100	Towards a better understanding of the generation of fructan structure diversity in plants: molecular and functional characterization of a sucrose:fructan 6-fructosyltransferase (6-SFT) cDNA from perennial ryegrass (Lolium perenne). Journal of Experimental Botany, 2011, 62, 1871-1885.	4.8	34
101	LC-MS analysis reveals the presence of graminan- and neo-type fructans in wheat grains. Journal of Cereal Science, 2015, 61, 133-138.	3.7	34
102	At the Crossroads of Survival and Death: The Reactive Oxygen Speciesâ€“Ethyleneâ€“Sugar Triad and the Unfolded Protein Response. Trends in Plant Science, 2021, 26, 338-351.	8.8	34
103	ISOLATION AND STRUCTURAL ANALYSIS OF NEW FRUCTANS PRODUCED BY CHICORY. Journal of Carbohydrate Chemistry, 2001, 20, 375-395.	1.1	33
104	Influencing the binding configuration of sucrose in the active sites of chicory fructan 1â€exohydrolase and sugar beet fructan 6â€exohydrolase. New Phytologist, 2008, 178, 572-580.	7.3	33
105	Levansucrase from Halomonas smyrnensis AAD6T: first halophilic GH-J clan enzyme recombinantly expressed, purified, and characterized. Applied Microbiology and Biotechnology, 2018, 102, 9207-9220.	3.6	33
106	Performance Index and PSII Connectivity Under Drought and Contrasting Light Regimes in the CAM Orchid Phalaenopsis. Frontiers in Plant Science, 2019, 10, 1012.	3.6	33
107	Purification and properties of an invertase with sucrose: sucrose fructosyltransferase (SST) activity from the roots of Cichorium intybus L.. New Phytologist, 1993, 123, 31-37.	7.3	32
108	Fructans of the saline world. Biotechnology Advances, 2018, 36, 1524-1539.	11.7	32

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109	Levans in Excised Leaves ofDactylis glomerata: Effects of Light, Sugars, Temperature and Senescence. Journal of Plant Biology, 2007, 50, 671-680.	2.1	31
110	Cloning of a vacuolar invertase from Belgian endive leaves (Cichorium intybus). Physiologia Plantarum, 2002, 115, 504-512.	5.2	30
111	Impact of microbial communities on floral nectar chemistry: Potential implications for biological control of pest insects. Basic and Applied Ecology, 2016, 17, 189-198.	2.7	30
112	Post-translational processing of Î²-d-xylanases and changes in extractability of arabinoxylans during wheat germination. Plant Physiology and Biochemistry, 2010, 48, 90-97.	5.8	29
113	Purification, cloning and functional differences of a third fructan 1-exohydrolase (1-FEHw3) from wheat (Triticum aestivum). Physiologia Plantarum, 2008, 133, 242-253.	5.2	28
114	Chromosomal walking of flanking regions from short known sequences in GC-rich plant genomic DNA. Plant Molecular Biology Reporter, 2003, 21, 295-302.	1.8	27
115	Cloning and characterization of a novel fructan 6-exohydrolase strongly inhibited by sucrose in Lolium perenne. Planta, 2014, 240, 629-643.	3.2	27
116	Nâ€glycosylation affects substrate specificity of chicory fructan 1â€exohydrolase: evidence for the presence of an inulin binding cleft. New Phytologist, 2007, 176, 317-324.	7.3	26
117	Fructose and Fructans: Opposite Effects on Health?. Plant Foods for Human Nutrition, 2015, 70, 227-237.	3.2	25
118	Sweet Substitute: A software tool for in silico fragmentation of peptide-linked N-glycans. Proteomics, 2004, 4, 629-632.	2.2	24
119	Fructan 1-exohydrolase is associated with flower opening in Campanula rapunculoides. Functional Plant Biology, 2007, 34, 972.	2.1	23
120	Fructans Prime ROS Dynamics and Botrytis cinerea Resistance in Arabidopsis. Antioxidants, 2020, 9, 805.	5.1	23
121	Molecular cloning and characterization of a high DP fructan: fructan 1â€fructosyl transferase from Viguiera discolor (Asteraceae) and its heterologous expression in Pichia pastoris. Physiologia Plantarum, 2005, 125, 419-429.	5.2	22
122	Effect of osmolytes on the fructan pattern in feeder roots produced during forcing of chicory (Cichorium intybus L.). Journal of Plant Physiology, 1998, 153, 290-298.	3.5	21
123	Isolation and Characterization of a Pentasaccharide from Stellaria media. Journal of Natural Products, 2008, 71, 1833-1836.	3.0	21
124	Spermine and Spermidine Priming against Botrytis cinerea Modulates ROS Dynamics and Metabolism in Arabidopsis. Biomolecules, 2021, 11, 223.	4.0	21
125	Long term intermittent flooding stress affects plant growth and inulin synthesis of Cichorium intybus (var. sativum). Plant and Soil, 2014, 376, 291-305.	3.7	20
126	Novel fructan exohydrolase: unique properties and applications for human health. Journal of Experimental Botany, 2018, 69, 4227-4231.	4.8	20

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127	Variation in thein vitrogenerated fructan pattern from sucrose as a function of the purified chicory root 1-SST and 1-FFT concentrations. Journal of Experimental Botany, 1996, 47, 1797-1803.	4.8	19
128	An alternate sucrose binding mode in the E203Q Arabidopsis invertase mutant: An Xâ€ray crystallography and docking study. Proteins: Structure, Function and Bioinformatics, 2008, 71, 552-564.	2.6	19
129	Cloning, Characterization and Functional Analysis of a 1-FEH cDNA from Vernonia herbacea (Vell.) Rusby. Plant and Cell Physiology, 2008, 49, 1185-1195.	3.1	19
130	pKa Modulation of the Acid/Base Catalyst within GH32 and GH68: A Role in Substrate/Inhibitor Specificity?. PLoS ONE, 2012, 7, e37453.	2.5	19
131	Manninotriose is a major carbohydrate in red deadnettle (Lamium purpureum, Lamiaceae). Annals of Botany, 2013, 111, 385-393.	2.9	19
132	Characterization of Fructan Metabolism During Jerusalem Artichoke (Helianthus tuberosus L.) Germination. Frontiers in Plant Science, 2018, 9, 1384.	3.6	19
133	Sucrose assimilation during early developmental stages of chicory (Cichorium intybus L.) plants. Planta, 2001, 212, 436-443.	3.2	18
134	Sedoheptulose accumulation under CO2 enrichment in leaves of KalanchoÃ« pinnata: a novel mechanism to enhance C and P homeostasis?. Journal of Experimental Botany, 2013, 64, 1497-1507.	4.8	18
135	The influence of facultative endosymbionts on honeydew carbohydrate and amino acid composition of the black bean aphid <scp>A</scp>phis fabae. Physiological Entomology, 2017, 42, 125-133.	1.5	18
136	Building a fructan LCâ€“MS2 library and its application to reveal the fine structure of cereal grain fructans. Carbohydrate Polymers, 2017, 174, 343-351.	10.2	18
137	Purification and characterization of 1-SST, the key enzyme initiating fructan biosynthesis in young chicory roots (Cichorium intybus). Physiologia Plantarum, 1996, 98, 455-466.	5.2	17
138	Creating S-type characteristics in the F-type enzyme fructan:fructan 1-fructosyltransferase of Triticum aestivum L.. Journal of Experimental Botany, 2009, 60, 3687-3696.	4.8	17
139	Phenotypic selection on nectar amino acid composition in the Lepidoptera pollinated orchid species Gymnadenia conopsea. Oikos, 2015, 124, 421-427.	2.7	17
140	Dynamic Labeling Reveals Temporal Changes in Carbon Re-Allocation within the Central Metabolism of Developing Apple Fruit. Frontiers in Plant Science, 2017, 8, 1785.	3.6	17
141	Sweet Immunity: The Effect of Exogenous Fructans on the Susceptibility of Apple (Malus Ã— domestica) Tj ETQq1 1 0.784314 rgBT /Ov	4.1	16
142	Priming with Î³-Aminobutyric Acid against Botrytis cinerea Reshuffles Metabolism and Reactive Oxygen Species: Dissecting Signalling and Metabolism. Antioxidants, 2020, 9, 1174.	5.1	15
143	Crystallization and preliminary X-ray diffraction study of a cell-wall invertase fromArabidopsis thaliana. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 766-768.	0.7	14
144	Trafficking of Plant Vacuolar Invertases: From a Membrane-Anchored to a Soluble Status. Understanding Sorting Information in Their Complex N-Terminal Motifs. Plant and Cell Physiology, 2013, 54, 1263-1277.	3.1	14

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145	The impact of nectar chemical features on phenotypic variation in two related nectar yeasts. FEMS Microbiology Ecology, 2015, 91, .	2.7	14
146	Sweet Modifications Modulate Plant Development. Biomolecules, 2021, 11, 756.	4.0	14
147	Complete NMR characterization of lychnose from Stellaria media (L.) Vill. Carbohydrate Research, 2006, 341, 2744-2750.	2.3	13
148	Fructans and other water soluble carbohydrates in vegetative organs and fruits of different Musa spp. accessions. Frontiers in Plant Science, 2015, 6, 395.	3.6	13
149	Metabolism of galactosyl-oligosaccharides in Stellaria media â€“ Discovery of stellariose synthase, a novel type of galactosyltransferase. Phytochemistry, 2010, 71, 1095-1103.	2.9	12
150	The cost of ant attendance and melezitose secretion in the black bean aphid <scp>A</scp>phis fabae. Ecological Entomology, 2015, 40, 511-517.	2.2	12
151	The role of fructan in flowering of Campanula rapunculoides. Journal of Experimental Botany, 2000, 51, 1261-1266.	4.8	12
152	Fructan oligosaccharide priming alters apoplastic sugar dynamics and improves resistance againstBotrytis cinereain chicory. Journal of Experimental Botany, 2022, 73, 4214-4235.	4.8	12
153	Cloning and functional analysis of chicory root fructan1â€exohydrolase I (1â€FEH I): a vacuolar enzyme derivedfrom a cellâ€wall invertase ancestor? Mass fingerprint of the 1â€FEH I enzyme. Plant Journal, 2000, 24, 447-456.	5.7	11
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155	Hierarchical clustering reveals unique features in the diel dynamics of metabolites in the CAM orchid Phalaenopsis. Journal of Experimental Botany, 2019, 70, 3269-3281.	4.8	11
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