

Yves Gibon

List of Publications by Year in descending order

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Version: 2024-02-01

140
papers

19,770
citations

19608

61
h-index

11288

136
g-index

143
all docs

143
docs citations

143
times ranked

19118
citing authors

#	ARTICLE	IF	CITATIONS
1	mapman: a user-driven tool to display genomics data sets onto diagrams of metabolic pathways and other biological processes. <i>Plant Journal</i> , 2004, 37, 914-939.	2.8	3,184
2	GMD@CSB.DB: the Golm Metabolome Database. <i>Bioinformatics</i> , 2005, 21, 1635-1638.	1.8	1,247
3	Water deficits uncouple growth from photosynthesis, increase C content, and modify the relationships between C and growth in sink organs. <i>Journal of Experimental Botany</i> , 2011, 62, 1715-1729.	2.4	623
4	Sugars and Circadian Regulation Make Major Contributions to the Global Regulation of Diurnal Gene Expression in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2005, 17, 3257-3281.	3.1	608
5	Extension of the Visualization Tool MapMan to Allow Statistical Analysis of Arrays, Display of Corresponding Genes, and Comparison with Known Responses. <i>Plant Physiology</i> , 2005, 138, 1195-1204.	2.3	576
6	Steps towards an integrated view of nitrogen metabolism. <i>Journal of Experimental Botany</i> , 2002, 53, 959-970.	2.4	549
7	Genome-wide reprogramming of metabolism and regulatory networks of <i>Arabidopsis</i> in response to phosphorus. <i>Plant, Cell and Environment</i> , 2007, 30, 85-112.	2.8	533
8	Sugar-induced increases in trehalose 6-phosphate are correlated with redox activation of ADPglucose pyrophosphorylase and higher rates of starch synthesis in <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2006, 397, 139-148.	1.7	518
9	A Robot-Based Platform to Measure Multiple Enzyme Activities in <i>Arabidopsis</i> Using a Set of Cycling Assays: Comparison of Changes of Enzyme Activities and Transcript Levels during Diurnal Cycles and in Prolonged Darkness[W]. <i>Plant Cell</i> , 2004, 16, 3304-3325.	3.1	489
10	Starch as a major integrator in the regulation of plant growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10348-10353.	3.3	467
11	Starch Synthesis in Potato Tubers Is Regulated by Post-Translational Redox Modification of ADP-Glucose Pyrophosphorylase. <i>Plant Cell</i> , 2002, 14, 2191-2213.	3.1	383
12	ADP-Glucose Pyrophosphorylase Is Activated by Posttranslational Redox-Modification in Response to Light and to Sugars in Leaves of <i>Arabidopsis</i> and Other Plant Species. <i>Plant Physiology</i> , 2003, 133, 838-849.	2.3	381
13	Adjustment of diurnal starch turnover to short days: depletion of sugar during the night leads to a temporary inhibition of carbohydrate utilization, accumulation of sugars and post-translational activation of ADP-glucose pyrophosphorylase in the following light period. <i>Plant Journal</i> , 2004, 39, 847-862.	2.8	378
14	<i>Arabidopsis</i> Plants Acclimate to Water Deficit at Low Cost through Changes of Carbon Usage: An Integrated Perspective Using Growth, Metabolite, Enzyme, and Gene Expression Analysis. <i>Plant Physiology</i> , 2010, 154, 357-372.	2.3	374
15	Adjustment of growth, starch turnover, protein content and central metabolism to a decrease of the carbon supply when <i>Arabidopsis</i> is grown in very short photoperiods. <i>Plant, Cell and Environment</i> , 2009, 32, 859-874.	2.8	312
16	PageMan: An interactive ontology tool to generate, display, and annotate overview graphs for profiling experiments. <i>BMC Bioinformatics</i> , 2006, 7, 535.	1.2	309
17	Global Transcript Levels Respond to Small Changes of the Carbon Status during Progressive Exhaustion of Carbohydrates in <i>Arabidopsis</i> Rosettes. <i>Plant Physiology</i> , 2008, 146, 1834-1861.	2.3	306
18	Integration of metabolite with transcript and enzyme activity profiling during diurnal cycles in <i>Arabidopsis</i> rosettes. <i>Genome Biology</i> , 2006, 7, R76.	13.9	304

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19	Deficiency of mitochondrial fumarase activity in tomato plants impairs photosynthesis via an effect on stomatal function. <i>Plant Journal</i> , 2007, 50, 1093-1106.	2.8	294
20	Multilevel Analysis of Primary Metabolism Provides New Insights into the Role of Potassium Nutrition for Glycolysis and Nitrogen Assimilation in Arabidopsis Roots. <i>Plant Physiology</i> , 2009, 150, 772-785.	2.3	293
21	Ribosome and transcript copy numbers, polysome occupancy and enzyme dynamics in <i>Arabidopsis</i> . <i>Molecular Systems Biology</i> , 2009, 5, 314.	3.2	276
22	Temporal responses of transcripts, enzyme activities and metabolites after adding sucrose to carbon-deprived Arabidopsis seedlings. <i>Plant Journal</i> , 2007, 49, 463-491.	2.8	272
23	Variation of Enzyme Activities and Metabolite Levels in 24 Arabidopsis Accessions Growing in Carbon-Limited Conditions. <i>Plant Physiology</i> , 2006, 142, 1574-1588.	2.3	270
24	SIARF4, an Auxin Response Factor Involved in the Control of Sugar Metabolism during Tomato Fruit Development. <i>Plant Physiology</i> , 2013, 161, 1362-1374.	2.3	229
25	The art of growing plants for experimental purposes: a practical guide for the plant biologist. <i>Functional Plant Biology</i> , 2012, 39, 821.	1.1	217
26	Reduced Expression of Aconitase Results in an Enhanced Rate of Photosynthesis and Marked Shifts in Carbon Partitioning in Illuminated Leaves of Wild Species Tomato. <i>Plant Physiology</i> , 2003, 133, 1322-1335.	2.3	210
27	Metabolite profiling in plant biology: platforms and destinations. <i>Genome Biology</i> , 2004, 5, 109.	13.9	205
28	Adjustment of growth and central metabolism to a mild but sustained nitrogen limitation in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2009, 32, 300-318.	2.8	201
29	Multilevel genomic analysis of the response of transcripts, enzyme activities and metabolites in <i>Arabidopsis</i> rosettes to a progressive decrease of temperature in the non-freezing range. <i>Plant, Cell and Environment</i> , 2008, 31, 518-547.	2.8	191
30	Increased C availability at elevated carbon dioxide concentration improves N assimilation in a legume. <i>Plant, Cell and Environment</i> , 2006, 29, 1651-1658.	2.8	172
31	Association Mapping across Numerous Traits Reveals Patterns of Functional Variation in Maize. <i>PLoS Genetics</i> , 2014, 10, e1004845.	1.5	171
32	Sensitive and high throughput metabolite assays for inorganic pyrophosphate, ADPGlc, nucleotide phosphates, and glycolytic intermediates based on a novel enzymic cycling system. <i>Plant Journal</i> , 2002, 30, 221-235.	2.8	170
33	Non-structural carbohydrates in woody plants compared among laboratories. <i>Tree Physiology</i> , 2015, 35, tppv073.	1.4	163
34	Stress-Induced GSK3 Regulates the Redox Stress Response by Phosphorylating Glucose-6-Phosphate Dehydrogenase in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 3380-3392.	3.1	151
35	<i>Arabidopsis</i> has a cytosolic fumarase required for the massive allocation of photosynthate into fumaric acid and for rapid plant growth on high nitrogen. <i>Plant Journal</i> , 2010, 62, 785-795.	2.8	148
36	Characterization of a NADH-Dependent Glutamate Dehydrogenase Mutant of <i>Arabidopsis</i> Demonstrates the Key Role of this Enzyme in Root Carbon and Nitrogen Metabolism. <i>Plant Cell</i> , 2012, 24, 4044-4065.	3.1	134

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37	Cycling Assay for Nicotinamide Adenine Dinucleotides: NaCl Precipitation and Ethanol Solubilization of the Reduced Tetrazolium. <i>Analytical Biochemistry</i> , 1997, 251, 153-157.	1.1	131
38	Network Analysis of Enzyme Activities and Metabolite Levels and Their Relationship to Biomass in a Large Panel of <i>Arabidopsis</i> Accessions. <i>Plant Cell</i> , 2010, 22, 2872-2893.	3.1	131
39	Get the Balance Right: ROS Homeostasis and Redox Signalling in Fruit. <i>Frontiers in Plant Science</i> , 2019, 10, 1091.	1.7	127
40	Remarkable Reproducibility of Enzyme Activity Profiles in Tomato Fruits Grown under Contrasting Environments Provides a Roadmap for Studies of Fruit Metabolism. <i>Plant Physiology</i> , 2014, 164, 1204-1221.	2.3	119
41	Extensive metabolic cross-talk in melon fruit revealed by spatial and developmental combinatorial metabolomics. <i>New Phytologist</i> , 2011, 190, 683-696.	3.5	111
42	GC-El-TOF-MS analysis of in vivo carbon-partitioning into soluble metabolite pools of higher plants by monitoring isotope dilution after ¹³ CO ₂ labelling. <i>Phytochemistry</i> , 2007, 68, 2258-2272.	1.4	105
43	The enigmatic contribution of mitochondrial function in photosynthesis. <i>Journal of Experimental Botany</i> , 2007, 59, 1675-1684.	2.4	104
44	Model-Assisted Analysis of Sugar Metabolism throughout Tomato Fruit Development Reveals Enzyme and Carrier Properties in Relation to Vacuole Expansion. <i>Plant Cell</i> , 2014, 26, 3224-3242.	3.1	103
45	Metabolite Profiling and Integrative Modeling Reveal Metabolic Constraints for Carbon Partitioning under Nitrogen Starvation in the Green Algae <i>Haematococcus pluvialis</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 30387-30403.	1.6	103
46	Does elevated atmospheric [CO ₂] alter diurnal C uptake and the balance of C and N metabolites in growing and fully expanded soybean leaves?. <i>Journal of Experimental Botany</i> , 2006, 58, 579-591.	2.4	102
47	Enzyme Activity Profiles during Fruit Development in Tomato Cultivars and <i>Solanum pennellii</i> . <i>Plant Physiology</i> , 2010, 153, 80-98.	2.3	92
48	Multilevel genomics analysis of carbon signalling during low carbon availability: coordinating the supply and utilisation of carbon in a fluctuating environment. <i>Functional Plant Biology</i> , 2007, 34, 526.	1.1	91
49	Integrative analyses of genetic variation in enzyme activities of primary carbohydrate metabolism reveal distinct modes of regulation in <i>Arabidopsis thaliana</i> . <i>Genome Biology</i> , 2008, 9, R129.	13.9	90
50	Fortune telling: metabolic markers of plant performance. <i>Metabolomics</i> , 2016, 12, 158.	1.4	89
51	Impact of the Carbon and Nitrogen Supply on Relationships and Connectivity between Metabolism and Biomass in a Broad Panel of <i>Arabidopsis</i> Accessions. <i>Plant Physiology</i> , 2013, 162, 347-363.	2.3	87
52	Description and applications of a rapid and sensitive non-radioactive microplate-based assay for maximum and initial activity of D-ribulose-1,5-bisphosphate carboxylase/oxygenase. <i>Plant, Cell and Environment</i> , 2007, 30, 1163-1175.	2.8	82
53	Profiling sugar metabolism during fruit development in a peach progeny with different fructose-to-glucose ratios. <i>BMC Plant Biology</i> , 2014, 14, 336.	1.6	80
54	Genome-Wide Association of Carbon and Nitrogen Metabolism in the Maize Nested Association Mapping Population. <i>Plant Physiology</i> , 2015, 168, 575-583.	2.3	80

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55	Putting primary metabolism into perspective to obtain better fruits. <i>Annals of Botany</i> , 2018, 122, 1-21.	1.4	77
56	Overexpression of Plastid Transketolase in Tobacco Results in a Thiamine Auxotrophic Phenotype. <i>Plant Cell</i> , 2015, 27, 432-447.	3.1	76
57	Modelling central metabolic fluxes by constraint-based optimization reveals metabolic reprogramming of developing <i>Solanum lycopersicum</i> (tomato) fruit. <i>Plant Journal</i> , 2015, 81, 24-39.	2.8	76
58	Mutagenesis of cysteine ⁸¹ prevents dimerization of the APS1 subunit of ADP-glucose pyrophosphorylase and alters diurnal starch turnover in <i>Arabidopsis thaliana</i> leaves. <i>Plant Journal</i> , 2012, 70, 231-242.	2.8	75
59	Post-Flowering Nitrate Uptake in Wheat Is Controlled by N Status at Flowering, with a Putative Major Role of Root Nitrate Transporter NRT2.1. <i>PLoS ONE</i> , 2015, 10, e0120291.	1.1	75
60	Why measure enzyme activities in the era of systems biology?. <i>Trends in Plant Science</i> , 2014, 19, 256-265.	4.3	73
61	Respiration climacteric in tomato fruits elucidated by constraint-based modelling. <i>New Phytologist</i> , 2017, 213, 1726-1739.	3.5	67
62	A Single-Step Purification for Glycine Betaine Determination in Plant Extracts by Isocratic HPLC. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 3718-3722.	2.4	65
63	Metabolomic profiling in tomato reveals diel compositional changes in fruit affected by source-sink relationships. <i>Journal of Experimental Botany</i> , 2015, 66, 3391-3404.	2.4	62
64	Comparative transcriptional profiling analysis of developing melon (<i>Cucumis melo</i> L.) fruit from climacteric and non-climacteric varieties. <i>BMC Genomics</i> , 2015, 16, 440.	1.2	62
65	A fluorometric assay for trehalose in the picomole range. <i>Plant Methods</i> , 2013, 9, 21.	1.9	59
66	Fine Quantitative Trait Loci Mapping of Carbon and Nitrogen Metabolism Enzyme Activities and Seedling Biomass in the Maize IBM Mapping Population Å Å. <i>Plant Physiology</i> , 2010, 154, 1753-1765.	2.3	58
67	Resolving the Role of Plant Glutamate Dehydrogenase: II. Physiological Characterization of Plants Overexpressing the Two Enzyme Subunits Individually or Simultaneously. <i>Plant and Cell Physiology</i> , 2013, 54, 1635-1647.	1.5	57
68	Transcriptional and metabolic alternations rebalance wheat grain storage protein accumulation under variable nitrogen and sulfur supply. <i>Plant Journal</i> , 2015, 83, 326-343.	2.8	57
69	Exploiting the Genetic Diversity of Maize Using a Combined Metabolomic, Enzyme Activity Profiling, and Metabolic Modeling Approach to Link Leaf Physiology to Kernel Yield. <i>Plant Cell</i> , 2017, 29, 919-943.	3.1	57
70	Impacts of Paraburkholderia phytofirmans Strain PsJN on Tomato (<i>Lycopersicon esculentum</i> L.) Under High Temperature. <i>Frontiers in Plant Science</i> , 2018, 9, 1397.	1.7	56
71	Mitochondrial metabolism supports resistance to IDH mutant inhibitors in acute myeloid leukemia. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	56
72	Absence of Symbiotic Leghemoglobins Alters Bacteroid and Plant Cell Differentiation During Development of <i>Lotus japonicus</i> Root Nodules. <i>Molecular Plant-Microbe Interactions</i> , 2009, 22, 800-808.	1.4	55

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73	Proline accumulation in canola leaf discs subjected to osmotic stress is related to the loss of chlorophylls and to the decrease of mitochondrial activity. <i>Physiologia Plantarum</i> , 2000, 110, 469-476.	2.6	50
74	The intrinsically disordered protein LEA7 from <i>Arabidopsis thaliana</i> protects the isolated enzyme lactate dehydrogenase and enzymes in a soluble leaf proteome during freezing and drying. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1517-1525.	1.1	50
75	A new genomic library of melon introgression lines in a cantaloupe genetic background for dissecting desirable agronomical traits. <i>BMC Plant Biology</i> , 2016, 16, 154.	1.6	48
76	Identification and Characterisation of the $\hat{1}\pm$ and $\hat{1}^2$ Subunits of Succinyl CoA Ligase of Tomato. <i>Plant Molecular Biology</i> , 2005, 59, 781-791.	2.0	46
77	Is change in ovary carbon status a cause or a consequence of maize ovary abortion in water deficit during flowering?. <i>Plant Physiology</i> , 2016, 171, pp.01130.2015.	2.3	46
78	High-throughput plant phenotyping: a role for metabolomics?. <i>Trends in Plant Science</i> , 2022, 27, 549-563.	4.3	44
79	Wine yeast phenomics: A standardized fermentation method for assessing quantitative traits of <i>Saccharomyces cerevisiae</i> strains in enological conditions. <i>PLoS ONE</i> , 2018, 13, e0190094.	1.1	43
80	Xeml Lab: a tool that supports the design of experiments at a graphical interface and generates computer-readable metadata files, which capture information about genotypes, growth conditions, environmental perturbations and sampling strategy. <i>Plant, Cell and Environment</i> , 2009, 32, 1185-1200.	2.8	42
81	Constraint-Based Modeling Highlights Cell Energy, Redox Status and $\hat{1}\pm$ -Ketoglutarate Availability as Metabolic Drivers for Anthocyanin Accumulation in Grape Cells Under Nitrogen Limitation. <i>Frontiers in Plant Science</i> , 2018, 9, 421.	1.7	42
82	Bread Wheat (<i>Triticum aestivum</i> L.) Grain Protein Concentration Is Related to Early Post-Flowering Nitrate Uptake under Putative Control of Plant Satiation Level. <i>PLoS ONE</i> , 2016, 11, e0149668.	1.1	37
83	Identification of Enzyme Activity Quantitative Trait Loci in a <i>Solanum lycopersicum</i> $\hat{1}\pm$ — <i>Solanum pennellii</i> Introgression Line Population $\hat{1}\pm$. <i>Plant Physiology</i> , 2011, 157, 998-1014.	2.3	36
84	Dissection of the molecular bases of genotype x environment interactions: a study of phenotypic plasticity of <i>Saccharomyces cerevisiae</i> in grape juices. <i>BMC Genomics</i> , 2018, 19, 772.	1.2	36
85	Biomass composition explains fruit relative growth rate and discriminates climacteric from non-climacteric species. <i>Journal of Experimental Botany</i> , 2020, 71, 5823-5836.	2.4	35
86	Fruit setting rewires central metabolism via gibberellin cascades. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23970-23981.	3.3	34
87	Integrating proteomics and enzymatic profiling to decipher seed metabolism affected by temperature in seed dormancy and germination. <i>Plant Science</i> , 2018, 269, 118-125.	1.7	33
88	Modeling Protein Destiny in Developing Fruit. <i>Plant Physiology</i> , 2019, 180, 1709-1724.	2.3	33
89	An assessment of the physiological properties of the so-called compatible solutes using in vitro experiments with leaf discs. <i>Plant Physiology and Biochemistry</i> , 2003, 41, 657-666.	2.8	32
90	QTL Analyses in Multiple Populations Employed for the Fine Mapping and Identification of Candidate Genes at a Locus Affecting Sugar Accumulation in Melon (<i>Cucumis melo</i> L.). <i>Frontiers in Plant Science</i> , 2017, 8, 1679.	1.7	32

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91	Maize metabolome and proteome responses to controlled cold stress partly mimic early sowing effects in the field and differ from those of Arabidopsis. <i>Plant, Cell and Environment</i> , 2021, 44, 1504-1521.	2.8	32
92	Genetic Analysis of Central Carbon Metabolism Unveils an Amino Acid Substitution That Alters Maize NAD-Dependent Isocitrate Dehydrogenase Activity. <i>PLoS ONE</i> , 2010, 5, e9991.	1.1	30
93	Overproduction of ascorbic acid impairs pollen fertility in tomato. <i>Journal of Experimental Botany</i> , 2021, 72, 3091-3107.	2.4	30
94	Enzyme Kinetics: Theory and Practice. , 2009, , 71-103.		30
95	Silencing of the tomato Sugar Partitioning Affecting protein (<scp>SPA</scp>) modifies sink strength through a shift in leaf sugar metabolism. <i>Plant Journal</i> , 2014, 77, 676-687.	2.8	28
96	Metabolomics to Exploit the Primed Immune System of Tomato Fruit. <i>Metabolites</i> , 2020, 10, 96.	1.3	28
97	Bryophyte gas exchange dynamics along varying hydration status reveal a significant carbonyl sulphide (COS) sink in the dark and COS source in the light. <i>New Phytologist</i> , 2017, 215, 965-976.	3.5	27
98	¹ H-NMR metabolomic profiling reveals a distinct metabolic recovery response in shoots and roots of temporarily drought-stressed sugar beets. <i>PLoS ONE</i> , 2018, 13, e0196102.	1.1	27
99	Omeprazole Treatment Enhances Nitrogen Use Efficiency Through Increased Nitrogen Uptake and Assimilation in Corn. <i>Frontiers in Plant Science</i> , 2019, 10, 1507.	1.7	26
100	Metabolic studies in plant organs: don't forget dilution by growth. <i>Frontiers in Plant Science</i> , 2014, 5, 85.	1.7	25
101	Grapevines under drought do not express esca leaf symptoms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	25
102	Expression of a yeast acetyl CoA hydrolase in the mitochondrion. <i>Plant Molecular Biology</i> , 2004, 55, 645-662.	2.0	24
103	The role of potassium on maize leaf carbon exportation under drought condition. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1.	1.0	24
104	Use of TILLING and robotised enzyme assays to generate an allelic series of Arabidopsis thaliana mutants with altered ADP-glucose pyrophosphorylase activity. <i>Journal of Plant Physiology</i> , 2011, 168, 1395-1405.	1.6	23
105	Regulation of carbon metabolism in two maize sister lines contrasted for chilling tolerance. <i>Journal of Experimental Botany</i> , 2020, 71, 356-369.	2.4	22
106	Deciphering genetic diversity and inheritance of tomato fruit weight and composition through a systems biology approach. <i>Journal of Experimental Botany</i> , 2013, 64, 5737-5752.	2.4	20
107	Correlation-Based Network Analysis of Metabolite and Enzyme Profiles Reveals a Role of Citrate Biosynthesis in Modulating N and C Metabolism in Zea mays. <i>Frontiers in Plant Science</i> , 2016, 7, 1022.	1.7	20
108	Regulation of Pyridine Nucleotide Metabolism During Tomato Fruit Development Through Transcript and Protein Profiling. <i>Frontiers in Plant Science</i> , 2019, 10, 1201.	1.7	20

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109	Omics Data Reveal Putative Regulators of Einkorn Grain Protein Composition under Sulfur Deficiency. <i>Plant Physiology</i> , 2020, 183, 501-516.	2.3	20
110	Combined <i>Alternaria dauci</i> infection and water stresses impact carotenoid content of carrot leaves and roots. <i>Environmental and Experimental Botany</i> , 2017, 143, 125-134.	2.0	19
111	Metabolomic characterization of sunflower leaf allows discriminating genotype groups or stress levels with a minimal set of metabolic markers. <i>Metabolomics</i> , 2019, 15, 56.	1.4	17
112	Predictive metabolomics of multiple Atacama plant species unveils a core set of generic metabolites for extreme climate resilience. <i>New Phytologist</i> , 2022, 234, 1614-1628.	3.5	17
113	Interaction between exogenous glycine betaine and the photorespiratory pathway in canola leaf discs. <i>Physiologia Plantarum</i> , 2002, 116, 460-467.	2.6	16
114	Adenine Nucleotide and Nicotinamide Adenine Dinucleotide Measurements in Plants. <i>Current Protocols in Plant Biology</i> , 2020, 5, e20115.	2.8	16
115	Metabotyping of 30 maize hybrids under early-sowing conditions reveals potential marker-metabolites for breeding. <i>Metabolomics</i> , 2018, 14, 132.	1.4	15
116	Aspects of Experimental Design for Plant Metabolomics Experiments and Guidelines for Growth of Plant Material. <i>Methods in Molecular Biology</i> , 2011, 860, 13-30.	0.4	15
117	High-throughput functional assessment of polysaccharide-active enzymes using matrix-assisted laser desorption/ionization–time-of-flight mass spectrometry as exemplified on plant cell wall polysaccharides. <i>Analytical Biochemistry</i> , 2008, 373, 9-17.	1.1	14
118	Model-assisted comparison of sugar accumulation patterns in ten fleshy fruits highlights differences between herbaceous and woody species. <i>Annals of Botany</i> , 2020, 126, 455-470.	1.4	13
119	Modelling predicts tomatoes can be bigger and sweeter if biophysical factors and transmembrane transports are fine-tuned during fruit development. <i>New Phytologist</i> , 2021, 230, 1489-1502.	3.5	12
120	Central Metabolism Is Tuned to the Availability of Oxygen in Developing Melon Fruit. <i>Frontiers in Plant Science</i> , 2019, 10, 594.	1.7	9
121	Ammonium supply induces differential metabolic adaptive responses in tomato according to leaf phenological stage. <i>Journal of Experimental Botany</i> , 2021, 72, 3185-3199.	2.4	9
122	Overexpression of thioredoxin m in chloroplasts alters carbon and nitrogen partitioning in tobacco. <i>Journal of Experimental Botany</i> , 2021, 72, 4949-4964.	2.4	9
123	Measurement of Enzyme Activities and Optimization of Continuous and Discontinuous Assays. <i>Current Protocols in Plant Biology</i> , 2016, 1, 247-262.	2.8	8
124	Comparative metabolomics and glycolysis enzyme profiling of embryogenic and nonembryogenic grape cells. <i>FEBS Open Bio</i> , 2018, 8, 784-798.	1.0	8
125	High-Throughput Biochemical Phenotyping for Plants. <i>Advances in Botanical Research</i> , 2013, , 407-439.	0.5	7
126	Plant metabolomics and breeding. <i>Advances in Botanical Research</i> , 2021, , 207-235.	0.5	7

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127	Measurement of Tricarboxylic Acid Cycle Enzyme Activities in Plants. <i>Methods in Molecular Biology</i> , 2017, 1670, 167-182.	0.4	6
128	Developmental metabolomics to decipher and improve fleshy fruit quality. <i>Advances in Botanical Research</i> , 2021, 98, 3-34.	0.5	6
129	The NAD Kinase Slr0400 Functions as a Growth Repressor in <i>Synechocystis</i> sp. PCC 6803. <i>Plant and Cell Physiology</i> , 2021, 62, 668-677.	1.5	6
130	Making experimental data tables in the life sciences more FAIR: a pragmatic approach. <i>GigaScience</i> , 2020, 9, .	3.3	6
131	Biochemical characterization of the primary metabolism and antioxidant defense systems of acidic and acidless citrus genotypes during the major stages of fruit growth. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	5
132	Untargeted Analysis of Semipolar Compounds by LC-MS and Targeted Analysis of Fatty Acids by GC-MS/GC-FID: From Plant Cultivation to Extract Preparation. <i>Methods in Molecular Biology</i> , 2018, 1778, 101-124.	0.4	5
133	From fruit growth to ripening in plantain: a careful balance between carbohydrate synthesis and breakdown. <i>Journal of Experimental Botany</i> , 2022, 73, 4832-4849.	2.4	5
134	The Evolution of Leaf Function during Development Is Reflected in Profound Changes in the Metabolic Composition of the Vacuole. <i>Metabolites</i> , 2021, 11, 848.	1.3	4
135	Grape ASR Regulates Glucose Transport, Metabolism and Signaling. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6194.	1.8	4
136	Why bring post-genomics into the phosphorus-impoverished bush?. <i>Plant, Cell and Environment</i> , 2014, 37, 1273-1275.	2.8	3
137	Leaf metabolomic data of eight sunflower lines and their sixteen hybrids under water deficit. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2021, 28, 42.	0.6	2
138	Analysis of Enzyme Activities. <i>Methods in Molecular Biology</i> , 2014, 1090, 249-259.	0.4	2
139	Metabolic Profile Discriminates and Predicts Arabidopsis Susceptibility to Virus under Field Conditions. <i>Metabolites</i> , 2021, 11, 230.	1.3	1
140	MetaPhenomics: quantifying the many ways plants respond to their abiotic environment, using light intensity as an example. <i>Plant and Soil</i> , 2022, 476, 421-454.	1.8	1