List of Publications by Year in descending order

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RECINA FEIL

| # | Article | IF | CITATIONS |
|----|--|------------|---------------|
| 1 | Regulation of Flowering by Trehalose-6-Phosphate Signaling in <i>Arabidopsis thaliana</i> . Science, 2013, 339, 704-707. | 12.6 | 571 |
| 2 | Sugar-induced increases in trehalose 6-phosphate are correlated with redox activation of ADPglucose pyrophosphorylase and higher rates of starch synthesis in Arabidopsis thaliana. Biochemical Journal, 2006, 397, 139-148. | 3.7 | 518 |
| 3 | Normal growth of <i>Arabidopsis</i> requires cytosolic invertase but not sucrose synthase. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13124-13129. | 7.1 | 349 |
| 4 | The sucrose–trehalose 6-phosphate (Tre6P) nexus: specificity and mechanisms of sucrose signalling by Tre6P. Journal of Experimental Botany, 2014, 65, 1051-1068. | 4.8 | 326 |
| 5 | Regulation of secondary metabolism by the carbon-nitrogen status in tobacco: nitrate inhibits large sectors of phenylpropanoid metabolism. Plant Journal, 2006, 46, 533-548. | 5.7 | 324 |
| 6 | Metabolic Fluxes in an Illuminated <i>Arabidopsis</i> Rosette Â. Plant Cell, 2013, 25, 694-714. | 6.6 | 303 |
| 7 | Coarse control of sucrose-phosphate synthase in leaves: Alterations of the kinetic properties in response to the rate of photosynthesis and the accumulation of sucrose. Planta, 1988, 174, 217-230. | 3.2 | 281 |
| 8 | Arabidopsis Coordinates the Diurnal Regulation of Carbon Allocation and Growth across a Wide Range of Photoperiods. Molecular Plant, 2014, 7, 137-155. | 8.3 | 244 |
| 9 | Use of reverseâ€phase liquid chromatography, linked to tandem mass spectrometry, to profile the Calvin cycle and other metabolic intermediates in Arabidopsis rosettes at different carbon dioxide concentrations. Plant Journal, 2009, 59, 826-839. | 5.7 | 216 |
| 10 | <i>Burkholderia phytofirmans</i> PsJN Acclimates Grapevine to Cold by Modulating Carbohydrate Metabolism. Molecular Plant-Microbe Interactions, 2012, 25, 496-504. | 2.6 | 199 |
| 11 | Short-term water stress leads to a stimulation of sucrose synthesis by activating sucrose-phosphate synthase. Planta, 1989, 177, 535-546. | 3.2 | 176 |
| 12 | Trehalose 6–phosphate coordinates organic and amino acid metabolism with carbon availability. Plant Journal, 2016, 85, 410-423. | 5.7 | 176 |
| 13 | AtTPS1-mediated trehalose 6-phosphate synthesis is essential for embryogenic and vegetative growth and responsiveness to ABA in germinating seeds and stomatal guard cells. Plant Journal, 2010, 64, no-no. | 5.7 | 173 |
| 14 | Feedback Inhibition of Starch Degradation in Arabidopsis Leaves Mediated by Trehalose 6-Phosphate Â. Plant Physiology, 2013, 163, 1142-1163. | 4.8 | 167 |
| 15 | Trehalose 6-Phosphate Positively Regulates Fatty Acid Synthesis by Stabilizing WRINKLED1. Plant Cell, 2018, 30, 2616-2627. | 6.6 | 156 |
| 16 | Trehalose 6â€phosphate is involved in triggering axillary bud outgrowth in garden pea (<i>Pisum) Tj ETQq0 0 0</i> | rgBT_lOver | lock 10 Tf 50 |

| 17 | Metabolic profiling reveals coordinated switches in primary carbohydrate metabolism in grape berry (Vitis vinifera L.), a non-climacteric fleshy fruit. Journal of Experimental Botany, 2013, 64, 1345-1355. | 4.8 | 125 |
|----|---|-----|-----|
| 18 | Sucrose non-fermenting kinase 1 (SnRK1) coordinates metabolic and hormonal signals during pea cotyledon growth and differentiation. Plant Journal, 2010, 61, 324-338. | 5.7 | 122 |

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|----|--|------|-----------|
| 19 | Expansive Evolution of the TREHALOSE-6-PHOSPHATE PHOSPHATASE Gene Family in Arabidopsis Â. Plant Physiology, 2012, 160, 884-896. | 4.8 | 120 |
| 20 | Overexpression of the Trehalase Gene <i>AtTRE1</i> Leads to Increased Drought Stress Tolerance in Arabidopsis and Is Involved in Abscisic Acid-Induced Stomatal Closure Â. Plant Physiology, 2013, 161, 1158-1171. | 4.8 | 117 |
| 21 | The regulatory landscape of a core maize domestication module controlling bud dormancy and growth repression. Nature Communications, 2019, 10, 3810. | 12.8 | 116 |
| 22 | Reduced-activity mutants of phosphoglucose isomerase in the cytosol and chloroplast of Clarkia xantiana. Planta, 1989, 178, 110-122. | 3.2 | 96 |
| 23 | Regulation of shoot branching in arabidopsis by trehalose 6â€phosphate. New Phytologist, 2021, 229, 2135-2151. | 7.3 | 95 |
| 24 | Relationship between NH ⁺ ₄ Assimilation Rate and <i>in Vivo</i> Phospho <i>enol</i> pyruvate Carboxylase Activity. Plant Physiology, 1990, 94, 284-290. | 4.8 | 94 |
| 25 | Starch synthase 4 is essential for coordination of starch granule formation with chloroplast division during Arabidopsis leaf expansion. New Phytologist, 2013, 200, 1064-1075. | 7.3 | 93 |
| 26 | Time-Series Transcriptomics Reveals That <i>AGAMOUS-LIKE22</i> Affects Primary Metabolism and Developmental Processes in Drought-Stressed Arabidopsis. Plant Cell, 2016, 28, 345-366. | 6.6 | 92 |
| 27 | Getting back to nature: a reality check for experiments in controlled environments. Journal of Experimental Botany, 2017, 68, 4463-4477. | 4.8 | 89 |
| 28 | Impact of the C?N status on the amino acid profile in tobacco source leaves. Plant, Cell and Environment, 2006, 29, 2055-2076. | 5.7 | 85 |
| 29 | The Role of Abscisic Acid Signaling in Maintaining the Metabolic Balance Required for Arabidopsis Growth under Nonstress Conditions. Plant Cell, 2019, 31, 84-105. | 6.6 | 84 |
| 30 | Leaf Starch Turnover Occurs in Long Days and in Falling Light at the End of the Day. Plant Physiology, 2017, 174, 2199-2212. | 4.8 | 80 |
| 31 | Acclimation of metabolism to light in <scp><i>A</i></scp> <i>rabidopsis thaliana</i> : the glucose 6â€phosphate/phosphate translocator <scp>GPT</scp> 2 directs metabolic acclimation. Plant, Cell and Environment, 2015, 38, 1404-1417. | 5.7 | 79 |
| 32 | Regulatory Properties of ADP Glucose Pyrophosphorylase Are Required for Adjustment of Leaf Starch Synthesis in Different Photoperiods Â. Plant Physiology, 2014, 166, 1733-1747. | 4.8 | 78 |
| 33 | Installation of C ₄ photosynthetic pathway enzymes in rice using a single construct. Plant Biotechnology Journal, 2021, 19, 575-588. | 8.3 | 78 |
| 34 | Trehalose-6-phosphate synthase 1 is not the only active TPS in <i>Arabidopsis thaliana</i> . Biochemical Journal, 2015, 466, 283-290. | 3.7 | 77 |
| 35 | Mutagenesis of cysteine 81 prevents dimerization of the APS1 subunit of ADPâ€glucose pyrophosphorylase and alters diurnal starch turnover in <i>Arabidopsis thaliana</i> leaves. Plant Journal, 2012, 70, 231-242. | 5.7 | 75 |
| 36 | Regulation of Carbon Partitioning to Respiration during Dark Ammonium Assimilation by the Green Alga <i>Selenastrum minutum</i> . Plant Physiology, 1990, 93, 166-175. | 4.8 | 74 |

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|----|--|-----|-----------|
| 37 | Independent changes of inorganic pyrophosphate and the AT/ADP or UTP/UDP ratios in plant cell suspension cultures. Plant Science, 1990, 66, 59-63. | 3.6 | 73 |
| 38 | Response of Arabidopsis primary metabolism and circadian clock to low night temperature in a natural light environment. Journal of Experimental Botany, 2018, 69, 4881-4895. | 4.8 | 73 |
| 39 | Control of meristem determinacy by trehalose 6-phosphate phosphatases is uncoupled from enzymatic activity. Nature Plants, 2019, 5, 352-357. | 9.3 | 70 |
| 40 | Trehalose metabolism is activated upon chilling in grapevine and might participate in Burkholderia phytofirmans induced chilling tolerance. Planta, 2012, 236, 355-369. | 3.2 | 69 |
| 41 | Functional Features of TREHALOSE-6-PHOSPHATE SYNTHASE1, an Essential Enzyme in Arabidopsis[OPEN]. Plant Cell, 2020, 32, 1949-1972. | 6.6 | 69 |
| 42 | Loss of Starch Granule Initiation Has a Deleterious Effect on the Growth of Arabidopsis Plants Due to an Accumulation of ADP-Glucose Â. Plant Physiology, 2013, 163, 75-85. | 4.8 | 68 |
| 43 | Metabolic and Transcriptional Analysis of Durum Wheat Responses to Elevated CO2at Low and High Nitrate Supply. Plant and Cell Physiology, 2016, 57, 2133-2146. | 3.1 | 67 |
| 44 | Trehalose 6â€phosphate promotes seed filling by activating auxin biosynthesis. New Phytologist, 2021, 229, 1553-1565. | 7.3 | 67 |
| 45 | Fructokinase is required for carbon partitioning to cellulose in aspen wood. Plant Journal, 2012, 70, 967-977. | 5.7 | 64 |
| 46 | Transcription Factor Arabidopsis Activating Factor1 Integrates Carbon Starvation Responses with Trehalose Metabolism. Plant Physiology, 2015, 169, 379-390. | 4.8 | 62 |
| 47 | Fluoride leads to an increase of inorganic pyrophosphate and an inhibition of photosynthetic sucrose synthesis in spinach leaves. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 973, 263-271. | 1.0 | 60 |
| 48 | A fluorometric assay for trehalose in the picomole range. Plant Methods, 2013, 9, 21. | 4.3 | 59 |
| 49 | Dissecting the Subcellular Compartmentation of Proteins and Metabolites in Arabidopsis Leaves Using Non-aqueous Fractionation. Molecular and Cellular Proteomics, 2014, 13, 2246-2259. | 3.8 | 58 |
| 50 | Seed-specific elevation of non-symbiotic hemoglobin AtHb1: beneficial effects and underlying molecular networks in Arabidopsis thaliana. BMC Plant Biology, 2011, 11, 48. | 3.6 | 53 |
| 51 | RETINOBLASTOMA-RELATED PROTEIN controls the transition to autotrophic plant development. Development (Cambridge), 2011, 138, 2977-2986. | 2.5 | 53 |
| 52 | The role of Tre6P and SnRK1 in maize early kernel development and events leading to stress-induced kernel abortion. BMC Plant Biology, 2017, 17, 74. | 3.6 | 53 |
| 53 | The trehalose pathway in maize: conservation and gene regulation in response to the diurnal cycle and extended darkness. Journal of Experimental Botany, 2014, 65, 5959-5973. | 4.8 | 52 |
| 54 | Nitrate acts at the <i>Arabidopsis thaliana</i> shoot apical meristem to regulate flowering time. New Phytologist, 2019, 223, 814-827. | 7.3 | 52 |

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|----|---|-----|-----------|
| 55 | Title is missing!. , 1999, 215, 143-153. | | 49 |
| 56 | Multiple circadian clock outputs regulate diel turnover of carbon and nitrogen reserves. Plant, Cell and Environment, 2019, 42, 549-573. | 5.7 | 49 |
| 57 | FUM2, a Cytosolic Fumarase, Is Essential for Acclimation to Low Temperature in <i>Arabidopsis thaliana</i> . Plant Physiology, 2016, 172, 118-127. | 4.8 | 48 |
| 58 | The dual nature of trehalose in citrus canker disease: a virulence factor for Xanthomonas citri subsp. citri and a trigger for plant defence responses. Journal of Experimental Botany, 2015, 66, 2795-2811. | 4.8 | 47 |
| 59 | Genetic Evidence That Chain Length and Branch Point Distributions Are Linked Determinants of Starch Granule Formation in Arabidopsis Â. Plant Physiology, 2014, 165, 1457-1474. | 4.8 | 46 |
| 60 | Proteomic and metabolomic profiling underlines the stage―and timeâ€dependent effects of high temperature on grape berry metabolism. Journal of Integrative Plant Biology, 2020, 62, 1132-1158. | 8.5 | 45 |
| 61 | The trehalose 6â€phosphate pathway impacts vegetative phase change in <i>Arabidopsis thaliana</i> . Plant Journal, 2020, 104, 768-780. | 5.7 | 45 |
| 62 | Anaerobic Metabolism in the N-Limited Green Alga Selenastrum minutum. Plant Physiology, 1990, 94, 1116-1123. | 4.8 | 43 |
| 63 | Starch Synthase 4 and Plastidal Phosphorylase Differentially Affect Starch Granule Number and Morphology. Plant Physiology, 2017, 174, 73-85. | 4.8 | 41 |
| 64 | Impact of the SnRK1 protein kinase on sucrose homeostasis and the transcriptome during the diel cycle. Plant Physiology, 2021, 187, 1357-1373. | 4.8 | 39 |
| 65 | Feedback regulation by trehalose 6â€phosphate slows down starch mobilization below the rate that would exhaust starch reserves at dawn in Arabidopsis leaves. Plant Direct, 2018, 2, e00078. | 1.9 | 35 |
| 66 | Misexpression of a Chloroplast Aspartyl Protease Leads to Severe Growth Defects and Alters Carbohydrate Metabolism in Arabidopsis Â. Plant Physiology, 2012, 160, 1237-1250. | 4.8 | 34 |
| 67 | Perturbations in plant energy homeostasis prime lateral root initiation via SnRK1-bZIP63-ARF19 signaling. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 34 |
| 68 | Carbon starvation reduces carbohydrate and anthocyanin accumulation in redâ€fleshed fruit via trehalose 6â€phosphate and MYB27. Plant, Cell and Environment, 2020, 43, 819-835. | 5.7 | 33 |
| 69 | Restriction of nyctinastic movements and application of tensile forces to leaves affects diurnal patterns of expansion growth. Functional Plant Biology, 2002, 29, 1247. | 2.1 | 31 |
| 70 | Protein Phosphorylation Dynamics Under Carbon/Nitrogen-Nutrient Stress and Identification of a Cell Death-Related Receptor-Like Kinase in Arabidopsis. Frontiers in Plant Science, 2020, 11, 377. | 3.6 | 28 |
| 71 | The signal metabolite trehaloseâ€6â€phosphate inhibits the sucrolytic activity of sucrose synthase from developing castor beans. FEBS Letters, 2018, 592, 2525-2532. | 2.8 | 26 |
| 72 | The interplay between carbon availability and growth in different zones of the growing maize leaf. Plant Physiology, 2016, 172, pp.00994.2016. | 4.8 | 24 |

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|----|---|-------------------|---------------|
| 73 | Relationship between irradiance and levels of Calvin–Benson cycle and other intermediates in the model eudicot Arabidopsis and the model monocot rice. Journal of Experimental Botany, 2019, 70, 5809-5825. | 4.8 | 23 |
| 74 | Sucrose synthases are not involved in starch synthesis in Arabidopsis leaves. Nature Plants, 2022, 8, 574-582. | 9.3 | 21 |
| 75 | Response of photosynthetic electron transport and carbon metabolism to a sudden decrease of irradiance in the saturating or the limiting range. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 973, 241-249. | 1.0 | 19 |
| 76 | Mal de RÃo Cuarto virus infection causes hormone imbalance and sugar accumulation in wheat leaves. BMC Plant Biology, 2019, 19, 112. | 3.6 | 18 |
| 77 | Recruitment of an ancient branching program to suppress carpel development in maize flowers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 18 |
| 78 | Rising rates of starch degradation during daytime and trehalose 6-phosphate optimize carbon availability. Plant Physiology, 2022, 189, 1976-2000. | 4.8 | 18 |
| 79 | <i>Xanthomonas citri</i> ssp. <i>citri</i> requires the outer membrane porin OprB for maximal virulence and biofilm formation. Molecular Plant Pathology, 2017, 18, 720-733. | 4.2 | 17 |
| 80 | Trehalose 6-phosphate signal is closely related to sorbitol in apple fruit (<i>Malus domestica</i>) Tj ETQq0 0 0 rg | BT_/Overlo 1.2 | ck 10 Tf 50 4 |
| 81 | Quantification of Soluble Sugars and Sugar Alcohols by LC-MS/MS. Methods in Molecular Biology, 2018, 1778, 87-100. | 0.9 | 14 |
| 82 | Restriction of cytosolic sucrose hydrolysis profoundly alters development, metabolism, and gene expression in Arabidopsis roots. Journal of Experimental Botany, 2021, 72, 1850-1863. | 4.8 | 14 |
| 83 | Doseâ€dependent interactions between two loci trigger altered shoot growth in BCâ€5Â×ÂKrotzenburgâ€0 (Kroâ€0) hybrids of <i>Arabidopsis thaliana</i> . New Phytologist, 2018, 217, 392-406. | 7.3 | 12 |
| 84 | Expression of a Bacterial Trehalose-6-phosphate Synthase otsA Increases Oil Accumulation in Plant Seeds and Vegetative Tissues. Frontiers in Plant Science, 2021, 12, 656962. | 3.6 | 12 |
| 85 | Genetic manipulation of trehaloseâ€6â€phosphate synthase results in changes in the soluble sugar profile in transgenic sugarcane stems. Plant Direct, 2021, 5, e358. | 1.9 | 12 |
| 86 | Light-dependent activation of phospho <i>enol</i> pyruvate carboxylase by reversible phosphorylation in cluster roots of white lupin plants: diurnal control in response to photosynthate supply. Annals of Botany, 2016, 118, 637-643. | 2.9 | 11 |
| 87 | 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 |
| 88 | AKINβ1, a regulatory subunit of SnRK1, regulates organic acid metabolism and acts as a global regulator of genes involved in carbon, lipid and nitrogen metabolism. Journal of Experimental Botany, 2020, 71, 1010-1028. | 4.8 | 11 |
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89Phytochromes control metabolic flux, and their action at the seedling stage determines adult plant4.8689biomass. Journal of Experimental Botany, 2021, 72, 3263-3278.4.86