

Thomas David Sharkey

List of Publications by Year in descending order

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Version: 2024-02-01

238
papers

28,989
citations

4942

84
h-index

5519

163
g-index

251
all docs

251
docs citations

251
times ranked

16462
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The discovery of rubisco. <i>Journal of Experimental Botany</i> , 2023, 74, 510-519. | 2.4 | 15 |
| 2 | Isoprene enhances leaf cytokinin metabolism and induces early senescence. <i>New Phytologist</i> , 2022, 234, 961-974. | 3.5 | 17 |
| 3 | Intramolecular carbon isotope signals reflect metabolite allocation in plants. <i>Journal of Experimental Botany</i> , 2022, 73, 2558-2575. | 2.4 | 5 |
| 4 | Reimport of carbon from cytosolic and vacuolar sugar pools into the Calvin-Benson cycle explains photosynthesis labeling anomalies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121531119. | 3.3 | 31 |
| 5 | Compartment-specific energy requirements of photosynthetic carbon metabolism in <i>Camelina sativa</i> leaves. <i>Planta</i> , 2022, 255, 103. | 1.6 | 6 |
| 6 | Pathway Engineering, Re-targeting, and Synthetic Scaffolding Improve the Production of Squalene in Plants. <i>ACS Synthetic Biology</i> , 2022, 11, 2121-2133. | 1.9 | 8 |
| 7 | Phosphorus requirement for biomass accumulation is higher compared to photosynthetic biochemistry for three ornamental shrubs. <i>Scientia Horticulturae</i> , 2021, 275, 109719. | 1.7 | 9 |
| 8 | Leaf isoprene emission as a trait that mediates the growth-defense tradeoff in the face of climate stress. <i>Oecologia</i> , 2021, 197, 885-902. | 0.9 | 45 |
| 9 | Validation of an insertion-engineered isoprene synthase as a strategy to functionalize terpene synthases. <i>RSC Advances</i> , 2021, 11, 29997-30005. | 1.7 | 1 |
| 10 | The metabolic origins of non-photorespiratory CO ₂ release during photosynthesis: a metabolic flux analysis. <i>Plant Physiology</i> , 2021, 186, 297-314. | 2.3 | 65 |
| 11 | The roles of photorespiration and alternative electron acceptors in the responses of photosynthesis to elevated temperatures in cowpea. <i>Plant, Cell and Environment</i> , 2021, 44, 2290-2307. | 2.8 | 17 |
| 12 | A reporting format for leaf-level gas exchange data and metadata. <i>Ecological Informatics</i> , 2021, 61, 101232. | 2.3 | 22 |
| 13 | Plant heat stress: Concepts directing future research. <i>Plant, Cell and Environment</i> , 2021, 44, 1992-2005. | 2.8 | 144 |
| 14 | Contrasting anther glucose-6-phosphate dehydrogenase activities between two bean varieties suggest an important role in reproductive heat tolerance. <i>Plant, Cell and Environment</i> , 2021, 44, 2185-2199. | 2.8 | 16 |
| 15 | Evolution of a biochemical model of steady-state photosynthesis. <i>Plant, Cell and Environment</i> , 2021, 44, 2811-2837. | 2.8 | 22 |
| 16 | Pentose Phosphate Pathway Reactions in Photosynthesizing Cells. <i>Cells</i> , 2021, 10, 1547. | 1.8 | 29 |
| 17 | Scaling plant responses to high temperature from cell to ecosystem. <i>Plant, Cell and Environment</i> , 2021, 44, 1987-1991. | 2.8 | 8 |
| 18 | The triose phosphate utilization limitation of photosynthetic rate: Out of global models but important for leaf models. <i>Plant, Cell and Environment</i> , 2021, 44, 3223-3226. | 2.8 | 21 |

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|----|---|-----|-----------|
| 19 | Photosynthesis Photosynthetic Carbon Dioxide Fixation. , 2021, , 399-412. | | 2 |
| 20 | Building a better equation for electron transport estimated from Chl fluorescence: accounting for nonphotosynthetic light absorption. <i>New Phytologist</i> , 2020, 225, 604-608. | 3.5 | 12 |
| 21 | <i>Phaseolus vulgaris</i> SUT1.1 is a high affinity sucroseâ€proton coâ€transporter. <i>Plant Direct</i> , 2020, 4, e00260. | 0.8 | 3 |
| 22 | Phosphoglucosomerase Is an Important Regulatory Enzyme in Partitioning Carbon out of the Calvin-Benson Cycle. <i>Frontiers in Plant Science</i> , 2020, 11, 580726. | 1.7 | 10 |
| 23 | The reduction in leaf area precedes that in photosynthesis under potassium deficiency: the importance of leaf anatomy. <i>New Phytologist</i> , 2020, 227, 1749-1763. | 3.5 | 59 |
| 24 | Insect herbivory antagonizes leaf cooling responses to elevated temperature in tomato. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2211-2217. | 3.3 | 45 |
| 25 | Source of ¹² C in Calvinâ€Benson cycle intermediates and isoprene emitted from plant leaves fed with ¹³ CO ₂ . <i>Biochemical Journal</i> , 2020, 477, 3237-3252. | 1.7 | 30 |
| 26 | Emerging research in plant photosynthesis. <i>Emerging Topics in Life Sciences</i> , 2020, 4, 137-150. | 1.1 | 15 |
| 27 | Transcriptional Regulation of the Glucose-6-Phosphate/Phosphate Translocator 2 Is Related to Carbon Exchange Across the Chloroplast Envelope. <i>Frontiers in Plant Science</i> , 2019, 10, 827. | 1.7 | 45 |
| 28 | Isoprene: New insights into the control of emission and mediation of stress tolerance by gene expression. <i>Plant, Cell and Environment</i> , 2019, 42, 2808-2826. | 2.8 | 60 |
| 29 | Is triose phosphate utilization important for understanding photosynthesis?. <i>Journal of Experimental Botany</i> , 2019, 70, 5521-5525. | 2.4 | 30 |
| 30 | Plastidic glucose-6-phosphate dehydrogenases are regulated to maintain activity in the light. <i>Biochemical Journal</i> , 2019, 476, 1539-1551. | 1.7 | 48 |
| 31 | Pollen development at high temperature and role of carbon and nitrogen metabolites. <i>Plant, Cell and Environment</i> , 2019, 42, 2759-2775. | 2.8 | 68 |
| 32 | Elevated temperatures cause loss of seed set in common bean (<i>Phaseolus vulgaris</i> L.) potentially through the disruption of source-sink relationships. <i>BMC Genomics</i> , 2019, 20, 312. | 1.2 | 55 |
| 33 | A Cytosolic Bypass and G6P Shunt in Plants Lacking Peroxisomal Hydroxypyruvate Reductase. <i>Plant Physiology</i> , 2019, 180, 783-792. | 2.3 | 50 |
| 34 | Triose phosphate utilization and beyond: from photosynthesis to end product synthesis. <i>Journal of Experimental Botany</i> , 2019, 70, 1755-1766. | 2.4 | 77 |
| 35 | Isoprene Acts as a Signaling Molecule in Gene Networks Important for Stress Responses and Plant Growth. <i>Plant Physiology</i> , 2019, 180, 124-152. | 2.3 | 89 |
| 36 | Isoprene Suppression by CO ₂ Is Not Due to Triose Phosphate Utilization (TPU) Limitation. <i>Frontiers in Forests and Global Change</i> , 2019, 2, . | 1.0 | 13 |

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|----|--|-----|-----------|
| 37 | Prospects for enhancing leaf photosynthetic capacity by manipulating mesophyll cell morphology. <i>Journal of Experimental Botany</i> , 2019, 70, 1153-1165. | 2.4 | 89 |
| 38 | Discovery of the canonical Calvinâ€“Benson cycle. <i>Photosynthesis Research</i> , 2019, 140, 235-252. | 1.6 | 51 |
| 39 | Molecular Mechanisms Affecting Cell Wall Properties and Leaf Architecture. <i>Advances in Photosynthesis and Respiration</i> , 2018, , 209-253. | 1.0 | 7 |
| 40 | Triose phosphate limitation in photosynthesis models reduces leaf photosynthesis and global terrestrial carbon storage. <i>Environmental Research Letters</i> , 2018, 13, 074025. | 2.2 | 56 |
| 41 | Isoprene research â€“ 60Âyears later, the biology is still enigmatic. <i>Plant, Cell and Environment</i> , 2017, 40, 1671-1678. | 2.8 | 76 |
| 42 | In situ emission of BVOCs by three urban woody species. <i>Urban Forestry and Urban Greening</i> , 2017, 21, 153-157. | 2.3 | 10 |
| 43 | A dichotomy resolved: Plant growth can control the rate of starch accumulation. <i>Plant, Cell and Environment</i> , 2017, 40, 2606-2607. | 2.8 | 3 |
| 44 | Engineering of Recombinant Poplar Deoxy-D-Xylulose-5-Phosphate Synthase (PtDXS) by Site-Directed Mutagenesis Improves Its Activity. <i>PLoS ONE</i> , 2016, 11, e0161534. | 1.1 | 17 |
| 45 | Exogenous isoprene modulates gene expression in unstressed <i>Arabidopsis thaliana</i> plants. <i>Plant, Cell and Environment</i> , 2016, 39, 1251-1263. | 2.8 | 52 |
| 46 | What gas exchange data can tell us about photosynthesis. <i>Plant, Cell and Environment</i> , 2016, 39, 1161-1163. | 2.8 | 149 |
| 47 | Pectin Methylesterification Impacts the Relationship Between Photosynthesis and Plant Growth in <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 2016, 171, pp.00173.2016. | 2.3 | 30 |
| 48 | The glucose 6-phosphate shunt around the Calvinâ€“Benson cycle. <i>Journal of Experimental Botany</i> , 2016, 67, 4067-4077. | 2.4 | 98 |
| 49 | Effects of heat and drought stress on postâ€“illumination bursts of volatile organic compounds in isopreneâ€“emitting and nonâ€“emitting poplar. <i>Plant, Cell and Environment</i> , 2016, 39, 1204-1215. | 2.8 | 41 |
| 50 | Older <i>Thinopyrum intermedium</i> (Poaceae) plants exhibit superior photosynthetic tolerance to cold stress and greater increases in two photosynthetic enzymes under freezing stress compared with young plants. <i>Journal of Experimental Botany</i> , 2016, 67, 4743-4753. | 2.4 | 21 |
| 51 | Rewiring of jasmonate and phytochrome B signalling uncouples plant growth-defense tradeoffs. <i>Nature Communications</i> , 2016, 7, 12570. | 5.8 | 323 |
| 52 | Triose phosphate use limitation of photosynthesis: short-term and long-term effects. <i>Planta</i> , 2016, 243, 687-698. | 1.6 | 58 |
| 53 | Hartmut Lichtenthaler: an authority on chloroplast structure and isoprenoid biochemistry. <i>Photosynthesis Research</i> , 2016, 128, 117-123. | 1.6 | 2 |
| 54 | Photosynthesis and Carbon Assimilation. <i>Assa, Cssa and Sssa</i> , 2015, , 187-210. | 0.6 | 5 |

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|----|---|-----|-----------|
| 55 | Feedback Effects on Photosynthesis Induced by Assay and Growth at High Carbon Dioxide. Assa, Cssa and Sssa, 2015, , 461-466. | 0.6 | 6 |
| 56 | The relationship between leaf area growth and biomass accumulation in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 167. | 1.7 | 236 |
| 57 | Facing the Future: Effects of Short-Term Climate Extremes on Isoprene-Emitting and Nonemitting Poplar. <i>Plant Physiology</i> , 2015, 169, 560-575. | 2.3 | 33 |
| 58 | The arc mutants of <i>Arabidopsis</i> with fewer large chloroplasts have a lower mesophyll conductance. <i>Photosynthesis Research</i> , 2015, 124, 117-126. | 1.6 | 24 |
| 59 | Understanding carbon partitioning and its role in determining plant growth. <i>Plant, Cell and Environment</i> , 2015, 38, 1963-1964. | 2.8 | 14 |
| 60 | Concentration of isoprene in artificial and thylakoid membranes. <i>Journal of Bioenergetics and Biomembranes</i> , 2015, 47, 419-429. | 1.0 | 38 |
| 61 | Isopentenyl Diphosphate Inhibition of Thiamin Diphosphate Enzymes, Especially Deoxyxylulose 5-Phosphate Synthase. <i>FASEB Journal</i> , 2015, 29, 887.20. | 0.2 | 1 |
| 62 | Evolution of the Phosphoenolpyruvate Carboxylase Protein Kinase Family in C3 and C4 <i>Flaveria</i> spp. <i>Plant Physiology</i> , 2014, 165, 1076-1091. | 2.3 | 23 |
| 63 | The future of isoprene emission from leaves, canopies and landscapes. <i>Plant, Cell and Environment</i> , 2014, 37, 1727-1740. | 2.8 | 70 |
| 64 | Methylerythritol 4-phosphate (MEP) pathway metabolic regulation. <i>Natural Product Reports</i> , 2014, 31, 1043-1055. | 5.2 | 214 |
| 65 | Measuring dimethylallyl diphosphate available for isoprene synthesis. <i>Analytical Biochemistry</i> , 2013, 435, 27-34. | 1.1 | 36 |
| 66 | ISOPRENE SYNTHASE GENES FORM A MONOPHYLETIC CLADE OF ACYCLIC TERPENE SYNTHASES IN THE TPS-B TERPENE SYNTHASE FAMILY. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1026-1040. | 1.1 | 85 |
| 67 | Is it useful to ask why plants emit isoprene?. <i>Plant, Cell and Environment</i> , 2013, 36, 517-520. | 2.8 | 32 |
| 68 | Metabolic profiling of the methylerythritol phosphate pathway reveals the source of postillumination isoprene burst from leaves. <i>Plant, Cell and Environment</i> , 2013, 36, 429-437. | 2.8 | 80 |
| 69 | Isopentenyl diphosphate and dimethylallyl diphosphate/isopentenyl diphosphate ratio measured with recombinant isopentenyl diphosphate isomerase and isoprene synthase. <i>Analytical Biochemistry</i> , 2013, 440, 130-136. | 1.1 | 34 |
| 70 | Feedback Inhibition of Deoxy-d-xylulose-5-phosphate Synthase Regulates the Methylerythritol 4-Phosphate Pathway. <i>Journal of Biological Chemistry</i> , 2013, 288, 16926-16936. | 1.6 | 167 |
| 71 | Life history and resource acquisition: Photosynthetic traits in selected accessions of three perennial cereal species compared with annual wheat and rye. <i>American Journal of Botany</i> , 2013, 100, 2468-2477. | 0.8 | 16 |
| 72 | Molecular and Pathway Controls on Biogenic Volatile Organic Compound Emissions. <i>Tree Physiology</i> , 2013, , 119-151. | 0.9 | 32 |

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|----|--|-----|-----------|
| 73 | Feedback inhibition of 1-deoxyxylulose 5-phosphate synthase (DXS) regulates the 2-methylerythritol 4-phosphate (MEP) pathway. <i>FASEB Journal</i> , 2013, 27, 1b119. | 0.2 | 0 |
| 74 | Stabilization of thylakoid membranes in isoprene-emitting plants reduces formation of reactive oxygen species. <i>Plant Signaling and Behavior</i> , 2012, 7, 139-141. | 1.2 | 81 |
| 75 | Mesophyll conductance: constraint on carbon acquisition by C ₃ plants. <i>Plant, Cell and Environment</i> , 2012, 35, 1881-1883. | 2.8 | 22 |
| 76 | The metabolic and biochemical impact of glucose 6-sulfonate (sulfoquinovose), a dietary sugar, on carbohydrate metabolism. <i>Carbohydrate Research</i> , 2012, 362, 21-29. | 1.1 | 11 |
| 77 | Autotrophic Carbon Dioxide Fixation. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 651-674. | 1.0 | 6 |
| 78 | Advances in photosynthesis and respiration. <i>Photosynthesis Research</i> , 2012, 111, 327-329. | 1.6 | 19 |
| 79 | Characterization of photosynthesis in Arabidopsis ER-to-plastid lipid trafficking mutants. <i>Photosynthesis Research</i> , 2012, 112, 49-61. | 1.6 | 13 |
| 80 | Engineering starch accumulation by manipulation of phosphate metabolism of starch. <i>Plant Biotechnology Journal</i> , 2012, 10, 545-554. | 4.1 | 55 |
| 81 | The role of transitory starch in C ₃ , CAM, and C ₄ metabolism and opportunities for engineering leaf starch accumulation. <i>Journal of Experimental Botany</i> , 2011, 62, 3109-3118. | 2.4 | 94 |
| 82 | The effects of moderately high temperature on zeaxanthin accumulation and decay. <i>Photosynthesis Research</i> , 2011, 108, 171-181. | 1.6 | 17 |
| 83 | Effect of Temperature on Postillumination Isoprene Emission in Oak and Poplar. <i>Plant Physiology</i> , 2011, 155, 1037-1046. | 2.3 | 59 |
| 84 | Biochemical Characterization and Homology Modeling of Methylbutenol Synthase and Implications for Understanding Hemiterpene Synthase Evolution in Plants. <i>Journal of Biological Chemistry</i> , 2011, 286, 20582-20590. | 1.6 | 47 |
| 85 | Increased Thermostability of Thylakoid Membranes in Isoprene-Emitting Leaves Probed with Three Biophysical Techniques. <i>Plant Physiology</i> , 2011, 157, 905-916. | 2.3 | 157 |
| 86 | Moderate heat stress of Arabidopsis thaliana leaves causes chloroplast swelling and plastoglobule formation. <i>Photosynthesis Research</i> , 2010, 105, 123-134. | 1.6 | 81 |
| 87 | Differential response of aspen and birch trees to heat stress under elevated carbon dioxide. <i>Environmental Pollution</i> , 2010, 158, 1008-1014. | 3.7 | 41 |
| 88 | High Temperature Effects on Electron and Proton Circuits of Photosynthesis. <i>Journal of Integrative Plant Biology</i> , 2010, 52, 712-722. | 4.1 | 144 |
| 89 | Preface. <i>Journal of Experimental Botany</i> , 2009, 60, 2215-2216. | 2.4 | 11 |
| 90 | Photosynthetic electron transport and proton flux under moderate heat stress. <i>Photosynthesis Research</i> , 2009, 100, 29-43. | 1.6 | 166 |

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|-----|---|-----|-----------|
| 91 | Regulation of isoprene emission from poplar leaves throughout a day. <i>Plant, Cell and Environment</i> , 2009, 32, 939-947. | 2.8 | 67 |
| 92 | Moderate heat stress reduces the pH component of the transthylakoid proton motive force in light-adapted, intact tobacco leaves. <i>Plant, Cell and Environment</i> , 2009, 32, 1538-1547. | 2.8 | 75 |
| 93 | Regulation of isoprene emission in <i>Populus trichocarpa</i> leaves subjected to changing growth temperature. <i>Plant, Cell and Environment</i> , 2008, 31, 258-267. | 2.8 | 46 |
| 94 | Isoprene emission rates under elevated CO ₂ and O ₃ in two field-grown aspen clones differing in their sensitivity to O ₃ . <i>New Phytologist</i> , 2008, 179, 55-61. | 3.5 | 82 |
| 95 | Molecular cloning and characterization of two cDNAs encoding 1-deoxy-d-xylulose 5-phosphate reductoisomerase from <i>Hevea brasiliensis</i> . <i>Journal of Plant Physiology</i> , 2008, 165, 991-1002. | 1.6 | 38 |
| 96 | Isolation and characterization of two distinct classes of DXS genes in <i>Hevea brasiliensis</i> . <i>DNA Sequence</i> , 2008, 19, 291-300. | 0.7 | 7 |
| 97 | Domain Characterization of a 4- α -Glucanotransferase Essential for Maltose Metabolism in Photosynthetic Leaves. <i>Journal of Biological Chemistry</i> , 2008, 283, 20797-20804. | 1.6 | 37 |
| 98 | Isoprene Emission and Carbon Dioxide Protect Aspen Leaves from Heat Stress. <i>Nature Precedings</i> , 2008, , , | 0.1 | 2 |
| 99 | Isoprene Emission from Plants: Why and How. <i>Annals of Botany</i> , 2007, 101, 5-18. | 1.4 | 520 |
| 100 | Isoprene synthase expression and protein levels are reduced under elevated O ₃ but not under elevated CO ₂ (FACE) in field-grown aspen trees. <i>Plant, Cell and Environment</i> , 2007, 30, 654-661. | 2.8 | 83 |
| 101 | Rapid heating of intact leaves reveals initial effects of stromal oxidation on photosynthesis. <i>Plant, Cell and Environment</i> , 2007, 30, 671-678. | 2.8 | 28 |
| 102 | Fitting photosynthetic carbon dioxide response curves for C ₃ leaves. <i>Plant, Cell and Environment</i> , 2007, 30, 1035-1040. | 2.8 | 1,084 |
| 103 | HIGH TEMPERATURE STRESS. , 2006, , 101-129. | | 47 |
| 104 | Plant volatiles: a lack of function or a lack of knowledge?. <i>Trends in Plant Science</i> , 2006, 11, 421-421. | 4.3 | 46 |
| 105 | High temperature enhances inhibitor production but reduces fallover in tobacco Rubisco. <i>Functional Plant Biology</i> , 2006, 33, 921. | 1.1 | 24 |
| 106 | Carbon-based End Products of Artificial Photosynthesis. , 2006, , 283-289. | | 0 |
| 107 | The importance of maltose in transitory starch breakdown. <i>Plant, Cell and Environment</i> , 2006, 29, 353-366. | 2.8 | 106 |
| 108 | Cellular and organ level localization of maltose in maltose-excess <i>Arabidopsis</i> mutants. <i>Planta</i> , 2006, 224, 935-943. | 1.6 | 34 |

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|-----|--|------|-----------|
| 109 | The Role of Cytosolic α -Glucan Phosphorylase in Maltose Metabolism and the Comparison of Amylomaltase in Arabidopsis and Escherichia coli. Plant Physiology, 2006, 142, 878-889. | 2.3 | 70 |
| 110 | Carbon Balance and Circadian Regulation of Hydrolytic and Phosphorolytic Breakdown of Transitory Starch. Plant Physiology, 2006, 141, 879-886. | 2.3 | 100 |
| 111 | Effects of moderate heat stress on photosynthesis: importance of thylakoid reactions, rubisco deactivation, reactive oxygen species, and thermotolerance provided by isoprene. Plant, Cell and Environment, 2005, 28, 269-277. | 2.8 | 503 |
| 112 | Development of the capacity for isoprene emission in kudzu. Plant, Cell and Environment, 2005, 28, 898-905. | 2.8 | 92 |
| 113 | Antisense inhibition of sorbitol synthesis leads to up-regulation of starch synthesis without altering CO ₂ assimilation in apple leaves. Planta, 2005, 220, 767-776. | 1.6 | 84 |
| 114 | β -Maltose Is the Metabolically Active Anomer of Maltose during Transitory Starch Degradation. Plant Physiology, 2005, 137, 756-761. | 2.3 | 72 |
| 115 | Daylength and Circadian Effects on Starch Degradation and Maltose Metabolism. Plant Physiology, 2005, 138, 2280-2291. | 2.3 | 260 |
| 116 | Evolution of the Isoprene Biosynthetic Pathway in Kudzu. Plant Physiology, 2005, 137, 700-712. | 2.3 | 176 |
| 117 | Rapid Regulation of the Methylerythritol 4-Phosphate Pathway during Isoprene Synthesis. Plant Physiology, 2004, 135, 1939-1945. | 2.3 | 89 |
| 118 | Chloroplast to Leaf. Ecological Studies, 2004, , 171-206. | 0.4 | 8 |
| 119 | Thylakoid membrane responses to moderately high leaf temperature in Pima cotton. Plant, Cell and Environment, 2004, 27, 725-735. | 2.8 | 253 |
| 120 | Electron transport is the functional limitation of photosynthesis in field-grown Pima cotton plants at high temperature. Plant, Cell and Environment, 2004, 27, 717-724. | 2.8 | 407 |
| 121 | Engineering Plants for Elevated CO ₂ : A Relationship between Starch Degradation and Sugar Sensing. Plant Biology, 2004, 6, 280-288. | 1.8 | 66 |
| 122 | Diffusive and Metabolic Limitations to Photosynthesis under Drought and Salinity in C ₃ Plants. Plant Biology, 2004, 6, 269-279. | 1.8 | 1,095 |
| 123 | The role of amyloamylase in maltose metabolism in the cytosol of photosynthetic cells. Planta, 2004, 218, 466-473. | 1.6 | 166 |
| 124 | Maltose is the major form of carbon exported from the chloroplast at night. Planta, 2004, 218, 474-482. | 1.6 | 213 |
| 125 | Biochemical regulation of isoprene emission. Plant, Cell and Environment, 2003, 26, 1357-1364. | 2.8 | 58 |
| 126 | ISOPRENE EMISSION FROM PLANTS. Annual Review of Plant Biology, 2001, 52, 407-436. | 14.2 | 523 |

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|-----|---|-----|-----------|
| 127 | Promoter strength and tissue specificity effects on growth of tomato plants transformed with maize sucrose-phosphate synthase. <i>Planta</i> , 2001, 212, 817-822. | 1.6 | 46 |
| 128 | Effect of growth conditions on isoprene emission and other thermotolerance-enhancing compounds. <i>Plant, Cell and Environment</i> , 2001, 24, 929-936. | 2.8 | 49 |
| 129 | Rate of acclimation of the capacity for isoprene emission in response to light and temperature. <i>Plant, Cell and Environment</i> , 2001, 24, 937-946. | 2.8 | 58 |
| 130 | Increased heat sensitivity of photosynthesis in tobacco plants with reduced Rubisco activase. <i>Photosynthesis Research</i> , 2001, 67, 147-156. | 1.6 | 92 |
| 131 | Isoprene Increases Thermotolerance of Fosmidomycin-Fed Leaves. <i>Plant Physiology</i> , 2001, 125, 2001-2006. | 2.3 | 224 |
| 132 | The effects of high temperature on isoprene synthesis in oak leaves. <i>Plant, Cell and Environment</i> , 2000, 23, 751-757. | 2.8 | 100 |
| 133 | Will increased photosynthetic efficiency lead to increased yield in rice? I Sheehy JE, Mitchell PL, Hardy B. editors. 2000. Redesigning rice photosynthesis to increase yield. Proceedings of the Workshop on The Quest to Reduce Hunger: Redesigning Rice Photosynthesis, 30 Nov.-3 Dec. 1999. Los Baños, Philippines. Makati City (Philippines): International Rice Research Institute and Amsterdam (The) Tj ETQq1 1 0.784314 rgBT /Overlock | 0.5 | 9 |
| 134 | Biogenic Hydrocarbons in the Atmospheric Boundary Layer: A Review. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, 1537-1575. | 1.7 | 532 |
| 135 | PLANT BIOLOGY:Some Like It Hot. <i>Science</i> , 2000, 287, 435-437. | 6.0 | 29 |
| 136 | Atmospheric Chemistry and Hydrocarbon Emissions from Plants. , 1999, 9, 1107-1108. | | 1 |
| 137 | Limitation to Photosynthesis in <i>Pratylenchus penetrans</i> and <i>Verticillium dahliae</i> Infected Potato. <i>Crop Science</i> , 1999, 39, 1340-1346. | 0.8 | 36 |
| 138 | Evolutionary significance of isoprene emission from mosses. <i>American Journal of Botany</i> , 1999, 86, 634-639. | 0.8 | 106 |
| 139 | Kinetics of leaf temperature fluctuation affect isoprene emission from red oak (<i>Quercus rubra</i>) leaves. <i>Tree Physiology</i> , 1999, 19, 917-924. | 1.4 | 93 |
| 140 | Intramolecular deuterium distributions reveal disequilibrium of chloroplast phosphoglucose isomerase. <i>Plant, Cell and Environment</i> , 1999, 22, 525-533. | 2.8 | 77 |
| 141 | WEATHER EFFECTS ON ISOPRENE EMISSION CAPACITY AND APPLICATIONS IN EMISSIONS ALGORITHMS. , 1999, 9, 1132-1137. | | 131 |
| 142 | WEATHER EFFECTS ON ISOPRENE EMISSION CAPACITY AND APPLICATIONS IN EMISSIONS ALGORITHMS. , 1999, 9, 1132. | | 1 |
| 143 | The regulation of isoprene emission responses to rapid leaf temperature fluctuations. <i>Plant, Cell and Environment</i> , 1998, 21, 1181-1188. | 2.8 | 116 |
| 144 | Export of Carbon from Chloroplasts at Night. <i>Plant Physiology</i> , 1998, 118, 1439-1445. | 2.3 | 103 |

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|-----|--|------|-----------|
| 145 | The Small, Methionine-Rich Chloroplast Heat-Shock Protein Protects Photosystem II Electron Transport during Heat Stress ¹ . <i>Plant Physiology</i> , 1998, 116, 439-444. | 2.3 | 282 |
| 146 | Biogenic isoprene emission: Model evaluation in a southeastern United States bottomland deciduous forest. <i>Journal of Geophysical Research</i> , 1997, 102, 18889-18901. | 3.3 | 65 |
| 147 | Isoprene Increases Thermotolerance of Isoprene-Emitting Species. <i>Plant Physiology</i> , 1997, 115, 1413-1420. | 2.3 | 282 |
| 148 | The BEMA-projectâ€™A North American perspective. <i>Atmospheric Environment</i> , 1997, 31, 251-255. | 1.9 | 4 |
| 149 | Title is missing!. <i>Photosynthesis Research</i> , 1997, 51, 93-106. | 1.6 | 47 |
| 150 | Sucrose-phosphate synthase activity and yield analysis of tomato plants transformed with maize sucrose-phosphate synthase. <i>Planta</i> , 1997, 203, 253-259. | 1.6 | 56 |
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