

# Hamlyn G Jones

## List of Publications by Year in descending order

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160  
papers

12,774  
citations

38742

50  
h-index

28297

105  
g-index

169  
all docs

169  
docs citations

169  
times ranked

9860  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Improving intercropping: a synthesis of research in agronomy, plant physiology and ecology. <i>New Phytologist</i> , 2015, 206, 107-117.  | 7.3 | 805       |
| 2  | Irrigation scheduling: advantages and pitfalls of plant-based methods. <i>Journal of Experimental Botany</i> , 2004, 55, 2427-2436.   | 4.8 | 742       |
| 3  | Thermal infrared imaging of crop canopies for the remote diagnosis and quantification of plant responses to water stress in the field. <i>Functional Plant Biology</i> , 2009, 36, 978.   | 2.1 | 439       |
| 4  | Monitoring plant and soil water status: established and novel methods revisited and their relevance to studies of drought tolerance. <i>Journal of Experimental Botany</i> , 2006, 58, 119-130.   | 4.8 | 430       |
| 5  | Use of infrared thermography for monitoring stomatal closure in the field: application to grapevine. <i>Journal of Experimental Botany</i> , 2002, 53, 2249-2260.   | 4.8 | 412       |
| 6  | Use of thermography for quantitative studies of spatial and temporal variation of stomatal conductance over leaf surfaces. <i>Plant, Cell and Environment</i> , 1999, 22, 1043-1055.  | 5.7 | 405       |
| 7  | Use of infrared thermometry for estimation of stomatal conductance as a possible aid to irrigation scheduling. <i>Agricultural and Forest Meteorology</i> , 1999, 95, 139-149.  | 4.8 | 377       |
| 8  | New phenotyping methods for screening wheat and barley for beneficial responses to water deficit. <i>Journal of Experimental Botany</i> , 2010, 61, 3499-3507.  | 4.8 | 359       |
| 9  | Stomatal control of xylem embolism. <i>Plant, Cell and Environment</i> , 1991, 14, 607-612.   | 5.7 | 340       |
| 10 | A Positive Root-sourced Signal as an Indicator of Soil Drying in Apple, <i>Malus x domestica</i> Borkh.. <i>Journal of Experimental Botany</i> , 1990, 41, 1535-1540.   | 4.8 | 335       |
| 11 | Linking drought resistance mechanisms to drought avoidance in upland rice using a QTL approach: progress and new opportunities to integrate stomatal and mesophyll responses. <i>Journal of Experimental Botany</i> , 2002, 53, 989-1004. | 4.8 | 316       |
| 12 | Proximal Remote Sensing Buggies and Potential Applications for Field-Based Phenotyping. <i>Agronomy</i> , 2014, 4, 349-379.   | 3.0 | 316       |
| 13 | Combining thermal and visible imagery for estimating canopy temperature and identifying plant stress. <i>Journal of Experimental Botany</i> , 2004, 55, 1423-1431.  | 4.8 | 284       |
| 14 | Partitioning stomatal and non-stomatal limitations to photosynthesis. <i>Plant, Cell and Environment</i> , 1985, 8, 95-104.   | 5.7 | 255       |
| 15 | Coping with drought: stress and adaptive responses in potato and perspectives for improvement. <i>Frontiers in Plant Science</i> , 2015, 6, 542.  | 3.6 | 220       |
| 16 | Monitoring and screening plant populations with combined thermal and chlorophyll fluorescence imaging. <i>Journal of Experimental Botany</i> , 2007, 58, 773-784.   | 4.8 | 215       |
| 17 | Effects of Abscisic Acid and Water Stress on Development and Morphology of Wheat. <i>Journal of Experimental Botany</i> , 1977, 28, 192-203.  | 4.8 | 213       |
| 18 | Application of Thermal Imaging and Infrared Sensing in Plant Physiology and Ecophysiology. <i>Advances in Botanical Research</i> , 2004, 41, 107-163.   | 1.1 | 211       |

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|----|--|-----|-----------|
| 19 | Exploring thermal imaging variables for the detection of stress responses in grapevine under different irrigation regimes. <i>Journal of Experimental Botany</i> , 2006, 58, 815-825.                          | 4.8 | 207       |
| 20 | Declining chilling and its impact on temperate perennial crops. <i>Environmental and Experimental Botany</i> , 2013, 91, 48-62.  | 4.2 | 202       |
| 21 | Estimating stomatal conductance with thermal imagery. <i>Plant, Cell and Environment</i> , 2006, 29, 1508-1518.  | 5.7 | 185       |
| 22 | The role of solute accumulation, osmotic adjustment and changes in cell wall elasticity in drought tolerance in <i>Ziziphus mauritiana</i> (Lamk.). <i>Journal of Experimental Botany</i> , 1998, 49, 967-977. | 4.8 | 173       |
| 23 | Optimizing thermal imaging as a technique for detecting stomatal closure induced by drought stress under greenhouse conditions. <i>Physiologia Plantarum</i> , 2006, 127, 507-518.                             | 5.2 | 127       |
| 24 | Modelling water relations of horticultural crops: a review. <i>Scientia Horticulturae</i> , 1998, 74, 21-46.   | 3.6 | 114       |
| 25 | Xylem-transported abscisic acid: the relative importance of its mass and its concentration in the control of stomatal aperture. <i>Plant, Cell and Environment</i> , 1993, 16, 453-459.                        | 5.7 | 100       |
| 26 | Infra-Red Thermography as a High-Throughput Tool for Field Phenotyping. <i>Agronomy</i> , 2014, 4, 397-417.  | 3.0 | 97        |
| 27 | Current topics in drought physiology. <i>Journal of Agricultural Science</i> , 1992, 119, 291-296.   | 1.3 | 96        |
| 28 | On the relationships between stomatal resistance and leaf temperatures in thermography. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1908-1912.   | 4.8 | 93        |
| 29 | Multi-sensor plant imaging: Towards the development of a stress-catalogue. <i>Biotechnology Journal</i> , 2009, 4, 1152-1167.  | 3.5 | 90        |
| 30 | MODERATE-TERM WATER STRESSES AND ASSOCIATED CHANGES IN SOME PHOTOSYNTHETIC PARAMETERS IN COTTON. <i>New Phytologist</i> , 1973, 72, 1095-1105.   | 7.3 | 89        |
| 31 | Regulation of growth and development of plants growing with a restricted supply of water. , 1989, , 71-94.   |     | 89        |
| 32 | Diurnal changes in water content of the stems of apple trees, as influenced by irrigation.. <i>Plant, Cell and Environment</i> , 1986, 9, 1-7.   | 5.7 | 83        |
| 33 | Infra-red Thermography for High Throughput Field Phenotyping in <i>Solanum tuberosum</i> . <i>PLoS ONE</i> , 2013, 8, e65816.  | 2.5 | 80        |
| 34 | Thermal Imaging for the Study of Plant Water Relations. <i>J Agricultural Meteorology</i> , 2003, 59, 205-217.   | 1.5 | 79        |
| 35 | Mucilages and polysaccharides in <i>Ziziphus</i> species (Rhamnaceae): localization, composition and physiological roles during drought-stress. <i>Journal of Experimental Botany</i> , 2002, 53, 131-138.     | 4.8 | 77        |
| 36 | Physiological Aspects of the Control of Water Status in Horticultural Crops. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1990, 25, 19-25.                            | 1.0 | 76        |

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|----|---|-----|-----------|
| 37 | Radiation measurement for plant ecophysiology. <i>Journal of Experimental Botany</i> , 2003, 54, 879-889.   | 4.8 | 72        |
| 38 | Crop Characteristics and the Ratio Between Assimilation and Transpiration. <i>Journal of Applied Ecology</i> , 1976, 13, 605.   | 4.0 | 70        |
| 39 | The relations between the main shoot and tillers in barley plants. <i>Journal of Agricultural Science</i> , 1977, 88, 381-389.  | 1.3 | 70        |
| 40 | Genotypic Variation in Leaf Water Potential, Stomatal Conductance and Abscisic Acid Concentration in Spring Wheat Subjected to Artificial Drought Stress. <i>Annals of Botany</i> , 1979, 44, 323-332.                            | 2.9 | 70        |
| 41 | Effects of foliar application of calcium nitrate on growth and physiological attributes of cowpea ( <i>Vigna unguiculata</i> L. Walp.) grown under salt stress. <i>Environmental and Experimental Botany</i> , 2006, 58, 188-196. | 4.2 | 70        |
| 42 | The Cohesion-Tension Theory. <i>New Phytologist</i> , 2004, 163, 451-452.   | 7.3 | 68        |
| 43 | Scaling of Thermal Images at Different Spatial Resolution: The Mixed Pixel Problem. <i>Agronomy</i> , 2014, 4, 380-396.   | 3.0 | 68        |
| 44 | LIMITING FACTORS IN PHOTOSYNTHESIS. <i>New Phytologist</i> , 1973, 72, 1089-1094.   | 7.3 | 66        |
| 45 | Modelling Diurnal Trends of Leaf Water Potential in Transpiring Wheat. <i>Journal of Applied Ecology</i> , 1978, 15, 613.   | 4.0 | 65        |
| 46 | Photosynthesis by Thin Leaf Slices in Solution I. Properties of Leaf Slices and Comparison With Whole Leaves. <i>Australian Journal of Biological Sciences</i> , 1973, 26, 15.  | 0.5 | 63        |
| 47 | Surface Conductance and Water Balance of Developing Apple ( <i>Malus pumila</i> Mill.) Fruits. <i>Journal of Experimental Botany</i> , 1982, 33, 67-77.   | 4.8 | 62        |
| 48 | Relationships between water-use traits and photosynthesis in <i>Brassica oleracea</i> resolved by quantitative genetic analysis. <i>Plant Breeding</i> , 2005, 124, 557-564.  | 1.9 | 59        |
| 49 | Carbon Dioxide Exchange of Developing Apple ( <i>Malus pumila</i> Mill.) Fruits. <i>Journal of Experimental Botany</i> , 1981, 32, 1203-1210.   | 4.8 | 57        |
| 50 | Effects of enhanced UV-B radiation on pea ( <i>Pisum sativum</i> L.) grown under field conditions in the UK. <i>Global Change Biology</i> , 1996, 2, 325-334.   | 9.5 | 57        |
| 51 | Transpiration in Barley Lines with Differing Stomatal Frequencies. <i>Journal of Experimental Botany</i> , 1977, 28, 162-168.   | 4.8 | 55        |
| 52 | The impact of drought on leaf physiology of <i>Quercus suber</i> L. trees: comparison of an extreme drought event with chronic rainfall reduction. <i>Journal of Experimental Botany</i> , 2010, 61, 4361-4371.                   | 4.8 | 55        |
| 53 | Estimation of the Transport and Carboxylation Components of the Intracellular Limitation to Leaf Photosynthesis. <i>Plant Physiology</i> , 1972, 50, 283-288.   | 4.8 | 53        |
| 54 | Photosynthesis and gas exchange. , 1989, , 47-70.   |     | 53        |

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|----|--|------|-----------|
| 55 | Effect of salinity on water relations of wild barley plants differing in salt tolerance. AoB PLANTS, 2010, 2010, plq006-plq006.  | 2.3  | 53        |
| 56 | The role of solute accumulation, osmotic adjustment and changes in cell wall elasticity in drought tolerance in <i>Ziziphus mauritiana</i> (Lamk.). Journal of Experimental Botany, 1998, 49, 967-977.                     | 4.8  | 52        |
| 57 | Stomatal responses to changing irradiance in <i>Phaseolus vulgaris</i> L.. Journal of Experimental Botany, 1994, 45, 931-936.  | 4.8  | 50        |
| 58 | An approach to the determination of winter chill requirements for different <i>Ribes</i> cultivars. Plant Biology, 2013, 15, 18-27.  | 3.8  | 50        |
| 59 | A new physical interpretation of plant root capacitance. Journal of Experimental Botany, 2012, 63, 6149-6159.  | 4.8  | 49        |
| 60 | Can root electrical capacitance be used to predict root mass in soil?. Annals of Botany, 2013, 112, 457-464.   | 2.9  | 49        |
| 61 | Effects of manipulation of number of tillers and water supply on grain yield in barley. Journal of Agricultural Science, 1977, 88, 391-397.  | 1.3  | 47        |
| 62 | Estimation of an effective soil water potential at the root surface of transpiring plants.. Plant, Cell and Environment, 1983, 6, 671-674.   | 5.7  | 47        |
| 63 | Rapid stomatal responses to humidity. Planta, 1982, 154, 135-138.  | 3.2  | 46        |
| 64 | A practical method using a network of fixed infrared sensors for estimating crop canopy conductance and evaporation rate. Biosystems Engineering, 2018, 165, 59-69.  | 4.3  | 46        |
| 65 | Responses of CO <sub>2</sub> assimilation to changes in irradiance: laboratory and field data and a model for beans ( <i>Phaseolus vulgaris</i> L.). Journal of Experimental Botany, 1996, 47, 639-645.                    | 4.8  | 45        |
| 66 | Validation of a radioimmunoassay for (+)-abscisic acid in extracts of apple and sweet-pepper tissue using high-pressure liquid chromatography and combined gas chromatography-mass spectrometry. Planta, 1985, 165, 91-99. | 3.2  | 43        |
| 67 | Transient gene expression in electroporated <i>Solanum</i> protoplasts. Plant Molecular Biology, 1989, 13, 503-511.  | 3.9  | 43        |
| 68 | Low Temperature Enhances Photosynthetic Down-regulation in French Bean ( <i>Phaseolus vulgaris</i> L.) Plants. Annals of Botany, 2003, 91, 343-352.  | 2.9  | 43        |
| 69 | Field phenotyping of potato to assess root and shoot characteristics associated with drought tolerance. Plant and Soil, 2014, 378, 351-363.  | 3.7  | 43        |
| 70 | Growth and Water Relations of Wilty Mutants of Tomato ( <i>Lycopersicon esculentum</i> Mill.). Journal of Experimental Botany, 1987, 38, 1848-1856.  | 4.8  | 42        |
| 71 | Diurnal changes in water content of the stems of apple trees, as influenced by irrigation. Plant, Cell and Environment, 1986, 9, 1-7.  | 5.7  | 41        |
| 72 | LAI retrieval from multiangular image classification and inversion of a ray tracing model. Remote Sensing of Environment, 2005, 98, 414-428.   | 11.0 | 41        |

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|----|---|-----|-----------|
| 73 | The relationship between wound-induced proteinase inhibitors and hydraulic signals in tomato seedlings. <i>Plant, Cell and Environment</i> , 1994, 17, 81-87.                           | 5.7 | 40        |
| 74 | Unusual stomatal behaviour on partial root excision in wheat seedlings. <i>Plant, Cell and Environment</i> , 2004, 27, 69-77.   | 5.7 | 40        |
| 75 | How do rootstocks control shoot water relations?. <i>New Phytologist</i> , 2012, 194, 301-303.  | 7.3 | 40        |
| 76 | Aspects of the water relations of spring wheat ( <i>Triticum aestivum</i> L.) in response to induced drought. <i>Journal of Agricultural Science</i> , 1977, 88, 267-282.               | 1.3 | 38        |
| 77 | Response of apple rootstocks to irrigation in south-east England. <i>The Journal of Horticultural Science</i> , 1990, 65, 129-141.  | 0.3 | 37        |
| 78 | Calcium uptake by developing apple fruits. I. Seasonal changes in calcium content of fruits. <i>The Journal of Horticultural Science</i> , 1983, 58, 173-182.                           | 0.3 | 36        |
| 79 | Correction for non-specific interference in competitive immunoassays. <i>Physiologia Plantarum</i> , 1987, 70, 146-154.   | 5.2 | 35        |
| 80 | Experimental control of water status in an apple orchard. <i>The Journal of Horticultural Science</i> , 1983, 58, 301-316.  | 0.3 | 34        |
| 81 | Water deficit, leaf rolling and susceptibility to photoinhibition in field grown sorghum. <i>Physiologia Plantarum</i> , 1994, 92, 423-430.   | 5.2 | 34        |
| 82 | Photosynthesis by Thin Leaf Slices in Solution II. Osmotic Stress and Its Effects on Photosynthesis. <i>Australian Journal of Biological Sciences</i> , 1973, 26, 25.                   | 0.5 | 34        |
| 83 | Association mapping and genetic dissection of drought-induced canopy temperature differences in rice. <i>Journal of Experimental Botany</i> , 2020, 71, 1614-1627.                      | 4.8 | 33        |
| 84 | Water Potential-Water Content Relationships In Apple Leaves. <i>Journal of Experimental Botany</i> , 1979, 30, 965-970.   | 4.8 | 32        |
| 85 | What plant is that? Tests of automated image recognition apps for plant identification on plants from the British flora. <i>AoB PLANTS</i> , 2020, 12, plaa052.                         | 2.3 | 32        |
| 86 | A Microcomputer-Based System for Continuous Measurement and Recording Fruit Diameter in Relation to Environmental Factors. <i>Journal of Experimental Botany</i> , 1984, 35, 1646-1655. | 4.8 | 31        |
| 87 | Can water droplets on leaves cause leaf scorch?. <i>New Phytologist</i> , 2010, 185, 865-867.   | 7.3 | 30        |
| 88 | A method for automatic segmentation and splitting of hyperspectral images of raspberry plants collected in field conditions. <i>Plant Methods</i> , 2017, 13, 74.                       | 4.3 | 30        |
| 89 | INTERNAL FACTORS CONTROLLING THE RATE OF EVAPORATION FROM FRONDS OF SOME INTERTIDAL ALGAE. <i>New Phytologist</i> , 1979, 83, 771-781.  | 7.3 | 29        |
| 90 | Estimation of plant water status with the beta-gauge. <i>Agricultural Meteorology</i> , 1973, 11, 345-355.  | 0.6 | 28        |

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|-----|--|-----|-----------|
| 91  | Calcium uptake by developing apple fruits. II. The role of spur leaves. The Journal of Horticultural Science, 1983, 58, 183-190.   | 0.3 | 28        |
| 92  | Some effects of canopy structure and microclimate on infection of tall and short wheats by <i>Septoria nodorum</i> . Plant Pathology, 1985, 34, 578-593.   | 2.4 | 28        |
| 93  | Introduction: some terminology and common mechanisms. , 1989, , 1-10.  |     | 28        |
| 94  | Xylem-transported chemical signals and the regulation of plant growth and physiology. Philosophical Transactions of the Royal Society B: Biological Sciences, 1993, 341, 41-47.                              | 4.0 | 28        |
| 95  | Variation of leaf conductance and leaf water potential in apple orchards. The Journal of Horticultural Science, 1984, 59, 329-336.   | 0.3 | 26        |
| 96  | Changing Responses of Stomata to Abscisic Acid and CO <sub>2</sub> as Leaves and Plants Age. Journal of Experimental Botany, 1988, 39, 401-410.  | 4.8 | 26        |
| 97  | Assessing Drought Responses Using Thermal Infrared Imaging. Methods in Molecular Biology, 2016, 1398, 209-219.   | 0.9 | 26        |
| 98  | ASSESSMENT OF STOMATAL CONTROL OF PLANT WATER STATUS. New Phytologist, 1974, 73, 851-859.  | 7.3 | 25        |
| 99  | Use of simultaneous analysis of gas-exchange and chlorophyll fluorescence quenching for analysing the effects of water stress on photosynthesis in apple leaves. Trees - Structure and Function, 1990, 4, 1. | 1.9 | 25        |
| 100 | Water relations and cropping of apple cultivars on a dwarfing rootstock in response to imposed drought. The Journal of Horticultural Science, 1991, 66, 367-379.   | 0.3 | 25        |
| 101 | Estimation of maize canopy properties from remote sensing by inversion of 1-D and 4-D models. Precision Agriculture, 2010, 11, 319-334.  | 6.0 | 25        |
| 102 | Evaluation of various heat-pulse methods for estimation of sap flow in orchard trees: comparison with micrometeorological estimates of evaporation. Trees - Structure and Function, 1988, 2, 250.            | 1.9 | 23        |
| 103 | Isolation, culture, and regeneration of plants from potato protoplasts. Plant Cell Reports, 1989, 8, 307-11.   | 5.6 | 23        |
| 104 | Response of photosynthetic apparatus to moderate high temperature in contrasting wheat cultivars at different oxygen concentrations. Journal of Experimental Botany, 2007, 58, 2133-2143.                    | 4.8 | 22        |
| 105 | Field Phenomics: Will It Enable Crop Improvement?. Plant Phenomics, 2021, 2021, 9871989.   | 5.9 | 22        |
| 106 | Salt tolerance of cowpea genotypes in the emergence stage. Australian Journal of Experimental Agriculture, 2001, 41, 81.   | 1.0 | 22        |
| 107 | Estimation of an effective soil water potential at the root surface of transpiring plants. Plant, Cell and Environment, 1983, 6, 671-674.  | 5.7 | 22        |
| 108 | Photosynthetic limitations: use in guiding effort in crop improvement. Journal of Experimental Botany, 1995, 46, 1415-1422.  | 4.8 | 20        |

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|-----|---|------|-----------|
| 109 | Visual estimation of plant water status in cereals. <i>Journal of Agricultural Science</i> , 1979, 92, 83-89.   | 1.3  | 19        |
| 110 | Resistance to Water Loss from the Mesophyll Cell Surface in Plant Leaves. <i>Journal of Experimental Botany</i> , 1980, 31, 545-553.  | 4.8  | 19        |
| 111 | Empirical models of the conductance of leaves in apple orchards. <i>Plant, Cell and Environment</i> , 1989, 12, 301-308.  | 5.7  | 19        |
| 112 | Abscisic acid and turgor pressure regulation in tomato roots. <i>Journal of Plant Physiology</i> , 1996, 149, 372-376.  | 3.5  | 18        |
| 113 | An Off-Line Implementation of the Stable Isotope Technique for Measurements of Alternative Respiratory Pathway Activities. <i>Plant Physiology</i> , 2001, 127, 1279-1286.                  | 4.8  | 18        |
| 114 | Effects of Intercellular Resistances on Estimates of the Intracellular Resistance to Co2 Uptake by Plant Leaves. <i>Australian Journal of Biological Sciences</i> , 1972, 25, 443.          | 0.5  | 18        |
| 115 | Thermal imaging as a viable tool for monitoring plant stress. <i>Oeno One</i> , 2016, 41, 77.   | 1.4  | 18        |
| 116 | Relationships between Water Stress and Ultrasound Emission in Apple ( <i>Malus domestica</i> Borkh.). <i>Journal of Experimental Botany</i> , 1986, 37, 1245-1254.                          | 4.8  | 17        |
| 117 | Repeat flowering in apple caused by water stress or defoliation. <i>Trees - Structure and Function</i> , 1987, 1, 135.  | 1.9  | 17        |
| 118 | Chilling requirement of <i>Ribes</i> cultivars. <i>Frontiers in Plant Science</i> , 2014, 5, 767.   | 3.6  | 17        |
| 119 | Singlet Oxygen Quenching by Phenylamides and their Parent Compounds. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2007, 62, 833-838.                          | 1.4  | 16        |
| 120 | Thermal Imaging and Infrared Sensing in Plant Ecophysiology. , 2018, , 135-151.   |      | 16        |
| 121 | Response of barley and pea crops to supplementary UV-B radiation. <i>Journal of Agricultural Science</i> , 1999, 132, 253-261.  | 1.3  | 15        |
| 122 | Field comparisons of photosynthesis and leaf conductance in <i>Ziziphus mauritiana</i> and other fruit tree species in Zimbabwe. <i>Trees - Structure and Function</i> , 1997, 11, 449-454. | 1.9  | 13        |
| 123 | Dendrométrie et distribution de la surface foliaire dans une vieille oliveraie près d'Andria, dans le sud de l'Italie. <i>Annals of Forest Science</i> , 2007, 64, 491-501.                 | 2.0  | 13        |
| 124 | AN ASSESSMENT OF PLANT-BASED MEASURES OF GRAPEVINE PERFORMANCE AS IRRIGATION SCHEDULING TOOLS. <i>Acta Horticulturae</i> , 2008, , 421-427.   | 0.2  | 13        |
| 125 | Matching physiological traits and ion concentrations associated with salt stress in cowpea genotypes. <i>Australian Journal of Agricultural Research</i> , 2002, 53, 1243.                  | 1.5  | 13        |
| 126 | Stress physiology of crop plants. <i>Nature</i> , 1977, 269, 13-14.   | 27.8 | 12        |



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|-----|--|------|-----------|
| 127 | A portable system for simultaneous measurement of transpiration and CO <sub>2</sub> exchange. <i>Photosynthesis Research</i> , 1980, 1, 83-92.   | 2.9  | 12        |
| 128 | Effects of NaCl Salinity on Growth and Production of Young Cladodes of <i>Opuntia ficus-indica</i> . <i>Journal of Agronomy and Crop Science</i> , 2001, 187, 269-279.   | 3.5  | 12        |
| 129 | Gas Exchange in Plant Leaves Having Different Transfer Resistances Through Their Two Surfaces. <i>Australian Journal of Biological Sciences</i> , 1973, 26, 1045.  | 0.5  | 11        |
| 130 | LEAF GAS EXCHANGE AND GROWTH IN RED RASPBERRIES IS REDUCED WHEN PART OF THE ROOT SYSTEM IS DRIED. <i>Acta Horticulturae</i> , 2002, , 671-676.   | 0.2  | 11        |
| 131 | Model systems for the immunolocalisation of cis, trans abscisic acid in plant tissues. <i>Planta</i> , 1987, 172, 192-199.   | 3.2  | 10        |
| 132 | Prospects for improving crop production in stressful environments. , 1989, , 235-248.  |      | 10        |
| 133 | Sunfleck dynamics and canopy structure in a <i>Phaseolus vulgaris</i> L. canopy. <i>International Journal of Biometeorology</i> , 1998, 42, 34-43.   | 3.0  | 10        |
| 134 | The use of indirect or proxy markers in plant physiology. <i>Plant, Cell and Environment</i> , 2014, 37, 1270-1272.  | 5.7  | 10        |
| 135 | How plants respond to stress. <i>Nature</i> , 1978, 271, 610-610.  | 27.8 | 9         |
| 136 | Applied abscisic acid, root growth and turgor pressure responses of roots of wild-type and the ABA-deficient mutant, <i>Notabilis</i> , of tomato. <i>Journal of Plant Physiology</i> , 1997, 151, 60-62.            | 3.5  | 6         |
| 137 | Leaf orientation and distribution in a <i>Phaseolus vulgaris</i> L. crop and their relation to light microclimate. <i>International Journal of Biometeorology</i> , 1999, 43, 64-70.                                 | 3.0  | 6         |
| 138 | Investigation of Sectorial Patterns in Apple Shoots Using Abscisic Acid. <i>Annals of Botany</i> , 1980, 46, 815-817.  | 2.9  | 5         |
| 139 | Cell sap osmotic potentials and frost tolerance in black currants ( <i>Ribes nigrum</i> L.). <i>The Journal of Horticultural Science</i> , 1983, 58, 261-266.  | 0.3  | 5         |
| 140 | The use of ultrasonic detectors for water stress determination in fruit trees. <i>Annales Des Sciences Forestières</i> , 1989, 46, 338s-341s.  | 1.2  | 5         |
| 141 | Water relations of 'Wjck McIntosh' apple trees. <i>The Journal of Horticultural Science</i> , 1991, 66, 311-317.   | 0.3  | 5         |
| 142 | The use of the VIFIS (variable interference filter imaging spectrometer) to obtain information on vegetation properties using multiangular data. <i>International Journal of Remote Sensing</i> , 2000, 19, 133-144. | 1.0  | 5         |
| 143 | Integrating hyperspectral imagery at different scales to estimate component surface temperatures. <i>International Journal of Remote Sensing</i> , 2006, 27, 2141-2159.  | 2.9  | 5         |
| 144 | Use of Imaging Technologies for High Throughput Phenotyping. , 2018, , 145-158.  |      | 5         |

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|-----|---|-----|-----------|
| 145 | Drought Enhances Stomatal Closure in Response to Shading in Sorghum ( <i>Sorghum bicolor</i> ) and in Millet ( <i>Pennisetum americanum</i> ). <i>Functional Plant Biology</i> , 1995, 22, 1.   | 2.1 | 5         |
| 146 | Calcium uptake by developing apple fruits: III. Additional studies on fruit calcium balance. <i>The Journal of Horticultural Science</i> , 1986, 61, 171-179.   | 0.3 | 4         |
| 147 | Improved models of the effects of winter chilling on blackcurrant ( <i>Ribes nigrum</i> L.) show cultivar specific sensitivity to warm winters. <i>Agricultural and Forest Meteorology</i> , 2020, 280, 107777.   | 4.8 | 4         |
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