

James I L Morison

List of Publications by Year in descending order

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55
papers

2,735
citations

218592

26
h-index

189801

50
g-index

60
all docs

60
docs citations

60
times ranked

3077
citing authors

#	ARTICLE	IF	CITATIONS
1	Stomatal Sensitivity to Carbon Dioxide and Humidity. <i>Plant Physiology</i> , 1983, 71, 789-796.	2.3	341
2	Sensitivity of stomata and water use efficiency to high CO ₂ . <i>Plant, Cell and Environment</i> , 1985, 8, 467-474.	2.8	290
3	Ultraviolet-B Radiation Effects on Water Relations, Leaf Development, and Photosynthesis in Droughted Pea Plants ¹ . <i>Plant Physiology</i> , 1998, 117, 173-181.	2.3	271
4	Policy Challenges and Priorities for Internalizing the Externalities of Modern Agriculture. <i>Journal of Environmental Planning and Management</i> , 2001, 44, 263-283.	2.4	196
5	<i>Arabidopsis</i> HEAT SHOCK TRANSCRIPTION FACTOR1b overexpression enhances water productivity, resistance to drought, and infection. <i>Journal of Experimental Botany</i> , 2013, 64, 3467-3481.	2.4	137
6	Respiration of crop species under CO ₂ enrichment. <i>Physiologia Plantarum</i> , 1985, 63, 351-356.	2.6	135
7	Characterization of Stomatal Closure Caused by Ultraviolet-B Radiation. <i>Plant Physiology</i> , 1999, 121, 489-496.	2.3	123
8	The responses of guard and mesophyll cell photosynthesis to CO ₂ , O ₂ , light, and water stress in a range of species are similar. <i>Journal of Experimental Botany</i> , 2003, 54, 1743-1752.	2.4	112
9	Water use efficiency of C ₄ perennial grasses in a temperate climate. <i>Agricultural and Forest Meteorology</i> , 1999, 96, 103-115.	1.9	108
10	Reductions in mesophyll and guard cell photosynthesis impact on the control of stomatal responses to light and CO ₂ . <i>Journal of Experimental Botany</i> , 2008, 59, 3609-3619.	2.4	83
11	Lateral Diffusion of CO ₂ in Leaves Is Not Sufficient to Support Photosynthesis. <i>Plant Physiology</i> , 2005, 139, 254-266.	2.3	75
12	Estimation of transpiration by single trees: comparison of sap flow measurements with a combination equation. <i>Agricultural and Forest Meteorology</i> , 1997, 87, 155-169.	1.9	65
13	Including the heat storage term in sap flow measurements with the stem heat balance method. <i>Agricultural and Forest Meteorology</i> , 1995, 74, 1-25.	1.9	64
14	Ethylene Contamination of CO ₂ Cylinders. <i>Plant Physiology</i> , 1984, 75, 275-277.	2.3	61
15	Boundary layer conductance for contrasting leaf shapes in a deciduous broadleaved forest canopy. <i>Agricultural and Forest Meteorology</i> , 2006, 139, 40-54.	1.9	59
16	The relationship between carbon dioxide uptake and canopy colour from two camera systems in a deciduous forest in southern England. <i>Functional Ecology</i> , 2013, 27, 196-207.	1.7	59
17	Development and evaluation of ForestGrowthSRC a process-based model for short rotation coppice yield and spatial supply reveals poplar uses water more efficiently than willow. <i>GCB Bioenergy</i> , 2013, 5, 53-66.	2.5	51
18	Modelling the impact of climatic warming on winter cereal development. <i>Agricultural and Forest Meteorology</i> , 1992, 62, 241-261.	1.9	40

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19	Does lateral gas diffusion in leaves matter?. <i>Plant, Cell and Environment</i> , 2007, 30, 1072-1085.	2.8	34
20	Survey and Analysis of Labour on Organic Farms in the UK and Republic of Ireland. <i>International Journal of Agricultural Sustainability</i> , 2005, 3, 24-43.	1.3	31
21	Lateral CO ₂ Diffusion inside Dicotyledonous Leaves Can Be Substantial: Quantification in Different Light Intensities. <i>Plant Physiology</i> , 2007, 145, 680-690.	2.3	30
22	The potential for bioenergy crops to contribute to meeting GB heat and electricity demands. <i>GCB Bioenergy</i> , 2014, 6, 136-141.	2.5	29
23	Climatic conditions during seed growth significantly influence oil content and quality in winter and spring evening primrose crops (<i>Oenothera</i> spp.). <i>Industrial Crops and Products</i> , 2000, 12, 137-147.	2.5	27
24	Visualising patterns of CO ₂ diffusion in leaves. <i>New Phytologist</i> , 2006, 169, 641-643.	3.5	27
25	Responses of photosynthetic electron transport in stomatal guard cells and mesophyll cells in intact leaves to light, CO ₂ , and humidity. <i>Plant Physiology</i> , 2002, 128, 52-62.	2.3	27
26	Photosynthesis, water use and growth of a C ₄ grass stand at high CO ₂ concentration. <i>Photosynthesis Research</i> , 1985, 7, 77-90.	1.6	26
27	Comparison of leaf water use efficiency of oak and sycamore in the canopy over two growing seasons. <i>Trees - Structure and Function</i> , 2010, 24, 297-306.	0.9	21
28	Sap flow measurements from stem heat balances: a comparison of constant with variable power methods. <i>Agricultural and Forest Meteorology</i> , 1995, 74, 27-40.	1.9	20
29	Investigating the role of prior and observation error correlations in improving a model forecast of forest carbon balance using Four-dimensional Variational data assimilation. <i>Agricultural and Forest Meteorology</i> , 2016, 228-229, 299-314.	1.9	20
30	Effects of management thinning on CO ₂ exchange by a plantation oak woodland in south-eastern England. <i>Biogeosciences</i> , 2016, 13, 2367-2378.	1.3	18
31	Climate and atmospheric deposition effects on forest water-use efficiency and nitrogen availability across Britain. <i>Scientific Reports</i> , 2020, 10, 12418.	1.6	18
32	Plant and ecosystem responses to increasing atmospheric CO ₂ . <i>Trends in Ecology and Evolution</i> , 1990, 5, 69-70.	4.2	15
33	Toward improved drought tolerance in bioenergy crops: QTL for carbon isotope composition and stomatal conductance in <i>Populus</i> . <i>Food and Energy Security</i> , 2013, 2, 220-236.	2.0	14
34	Contrasting growth and dry matter partitioning in winter and spring evening primrose crops (<i>Oenothera</i> spp.). <i>Field Crops Research</i> , 2000, 68, 9-20.	2.3	12
35	Understanding the effect of disturbance from selective felling on the carbon dynamics of a managed woodland by combining observations with model predictions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 886-902.	1.3	12
36	A Raspberry Pi-based camera system and image processing procedure for low cost and long-term monitoring of forest canopy dynamics. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1316-1322.	2.2	11

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37	Annual greenhouse gas fluxes from a temperate deciduous oak forest floor. <i>Forestry</i> , 2017, 90, 541-552.	1.2	10
38	Sensing and mis-sensing the eclipse. <i>Weather</i> , 2000, 55, 174-176.	0.6	8
39	Research Spotlight: The ELUM project: Ecosystem Land-Use Modeling and Soil Carbon GHG Flux Trial. <i>Biofuels</i> , 2014, 5, 111-116.	1.4	7
40	Reverse engineering model structures for soil and ecosystem respiration: the potential of gene expression programming. <i>Geoscientific Model Development</i> , 2017, 10, 3519-3545.	1.3	7
41	Differences in isoprene and monoterpene emissions from cold-tolerant eucalypt species grown in the UK. <i>Atmospheric Pollution Research</i> , 2020, 11, 2011-2021.	1.8	7
42	Comparison of the carbon, water, and energy balances of mature stand and clear-fell stages in a British Sitka spruce forest and the impact of the 2018 drought. <i>Agricultural and Forest Meteorology</i> , 2021, 306, 108437.	1.9	7
43	Isoprene and monoterpene emissions from alder, aspen and spruce short-rotation forest plantations in the United Kingdom. <i>Biogeosciences</i> , 2021, 18, 2487-2510.	1.3	6
44	Spatial mapping of Great Britain's bioenergy to 2050. <i>GCB Bioenergy</i> , 2014, 6, 97-98.	2.5	4
45	Effects of clear-fell harvesting on soil CO ₂ , CH ₄ , and N ₂ O fluxes in an upland Sitka spruce stand in England. <i>Biogeosciences</i> , 2021, 18, 4227-4241.	1.3	4
46	A first assessment of the sources of isoprene and monoterpene emissions from a short-rotation coppice <i>Eucalyptus gunnii</i> bioenergy plantation in the United Kingdom. <i>Atmospheric Environment</i> , 2021, 262, 118617.	1.9	4
47	Evaluation of LandscapeDNDC Model Predictions of CO ₂ and N ₂ O Fluxes from an Oak Forest in SE England. <i>Forests</i> , 2021, 12, 1517.	0.9	4
48	SB-ModelMaker for Windows. Version 2.0b. <i>Agricultural and Forest Meteorology</i> , 1995, 74, 265-267.	1.9	1
49	Light absorption and water loss in overwintered and spring-sown evening primrose (<i>Oenothera</i> spp.) crops. <i>European Journal of Agronomy</i> , 2001, 14, 275-291.	1.9	1
50	Can upward-facing digital camera images be used for remote monitoring of forest phenology?. <i>Forestry</i> , 2018, 91, 217-224.	1.2	1
51	Carbon dioxide and global change: Earth in transition. <i>Endeavour</i> , 1991, 15, 38.	0.1	0
52	Microclimate, Vegetation and Fauna. <i>Agricultural and Forest Meteorology</i> , 1994, 67, 326-327.	1.9	0
53	Carbon dioxide and terrestrial ecosystems. <i>Trends in Ecology and Evolution</i> , 1996, 11, 526-527.	4.2	0
54	Climate change and agriculture: Analysis of potential international impacts. <i>Endeavour</i> , 1996, 20, 43-44.	0.1	0

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55	De Kok LJ and Stulen I, eds. 1998. Responses of plant metabolism to air pollution and global change. 519 pp. Leiden: Backhuys Publishers. US\$126. Wallace DH, Yan W. 1998. Plant breeding and whole-system crop physiology: improving adaptation, maturity and yield. 390 pp. Wallingford, Oxon: CAB International. £35 (hardback). Annals of Botany, 1999, 84, 267-268.	1.4	0