Troy Peters

List of Publications by Year
in descending order

Version: 2024-02-01

45 papers	911 citations	471061 17 h-index	500791 28 g-index
45 all docs	45 docs citations	45 times ranked	842 citing authors

#	Article	IF	Citations
1	Morphological and Physiological Traits Associated with Canopy Temperature Depression in Three Closely Related Wheat Lines. Crop Science, 2008, 48, 1897-1910.	0.8	85
2	Automation of a Center Pivot Using the Temperature-Time-Threshold Method of Irrigation Scheduling. Journal of Irrigation and Drainage Engineering - ASCE, 2008, 134, 286-291.	0.6	80
3	Automatic irrigation scheduling of apple trees using theoretical crop water stress index with an innovative dynamic threshold. Computers and Electronics in Agriculture, 2015, 118, 193-203.	3.7	67
4	Comparison of irrigation automation algorithms for drip-irrigated apple trees. Computers and Electronics in Agriculture, 2016, 128, 87-99.	3.7	62
5	Climate change reduces water availability for agriculture by decreasing non-evaporative irrigation losses. Journal of Hydrology, 2018, 561, 444-460.	2.3	52
6	Modeling Diurnal Canopy Temperature Dynamics Using Oneâ€Timeâ€ofâ€Day Measurements and a Reference Temperature Curve. Agronomy Journal, 2004, 96, 1553-1561.	0.9	49
7	Economical thermal-RGB imaging system for monitoring agricultural crops. Computers and Electronics in Agriculture, 2018, 147, 34-43.	3.7	49
8	Wetting Pattern Models for Drip Irrigation: New Empirical Model. Journal of Irrigation and Drainage Engineering - ASCE, 2011, 137, 530-536.	0.6	42
9	Modeling Apple Surface Temperature Dynamics Based on Weather Data. Sensors, 2014, 14, 20217-20234.	2.1	25
10	Impact of sustained deficit irrigation on spearmint (Mentha spicata L.) biomass production, oil yield, and oil quality. Irrigation Science, 2012, 30, 213-219.	1.3	22
11	High Resolution Geospatial Evapotranspiration Mapping of Irrigated Field Crops Using Multispectral and Thermal Infrared Imagery with METRIC Energy Balance Model. Drones, 2020, 4, 52.	2.7	21
12	In-field crop physiology sensing aided real-time apple fruit surface temperature monitoring for sunburn prediction. Computers and Electronics in Agriculture, 2020, 175, 105558.	3.7	21
13	Effect of deficit irrigation on yield quantity and quality, water productivity and economic returns of four cultivars of hops in the Yakima Valley, Washington State. Industrial Crops and Products, 2017, 98, 82-92.	2.5	20
14	Estimating Biomass and Yield Using METRIC Evapotranspiration and Simple Growth Algorithms. Agronomy Journal, 2019, 111, 536-544.	0.9	20
15	Daylight crop water stress index for continuous monitoring of water status in apple trees. Irrigation Science, 2016, 34, 209-219.	1.3	19
16	Continuous variation of wind drift and evaporation losses under a linear move irrigation system. Agricultural Water Management, 2017, 182, 39-54.	2.4	19
17	Design of Zero Slope Microirrigation Laterals: Effect of the Friction Factor Variation. Journal of Irrigation and Drainage Engineering - ASCE, 2015, 141, .	0.6	18
18	Low Orbiting Satellite and Small UAS-Based High-Resolution Imagery Data to Quantify Crop Lodging: A Case Study in Irrigated Spearmint. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 755-759.	1.4	18

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19	Direct Calculation of Thermodynamic Wet-Bulb Temperature as a Function of Pressure and Elevation. Journal of Atmospheric and Oceanic Technology, 2013, 30, 1757-1765.	0.5	17
20	Using stable water isotopes to assess the influence of irrigation structural configurations on evaporation losses in semiarid agricultural systems. Agricultural and Forest Meteorology, 2020, 291, 108083.	1.9	17
21	Smartphone Application-Enabled Apple Fruit Surface Temperature Monitoring Tool for In-Field and Real-Time Sunburn Susceptibility Prediction. Sensors, 2020, 20, 608.	2.1	17
22	Efficacy of unmanned helicopter in rainwater removal from cherry canopies. Computers and Electronics in Agriculture, 2016, 124, 161-167.	3.7	16
23	High-Resolution Spatiotemporal Water Use Mapping of Surface and Direct-Root-Zone Drip-Irrigated Grapevines Using UAS-Based Thermal and Multispectral Remote Sensing. Remote Sensing, 2021, 13, 954.	1.8	16
24	Evaluating water application efficiency of low and mid elevation spray application under changing weather conditions. Agricultural Water Management, 2019, 221, 84-91.	2.4	15
25	Adjusting irrigation uniformity coefficients for unimportant variability on a small scale. Agricultural Water Management, 2019, 213, 1078-1083.	2.4	15
26	Modified G and GAVG Correction Factors for Laterals with Multiple Outlets and Outflow. Journal of Irrigation and Drainage Engineering - ASCE, 2011, 137, 697-704.	0.6	12
27	Accurate measurement of wind drift and evaporation losses could improve water application efficiency of sprinkler irrigation systems â^' A comparison of measuring techniques. Agricultural Water Management, 2021, 258, 107209.	2.4	12
28	Impact of the Intermittency Movement of Center Pivots on Irrigation Uniformity. Water (Switzerland), 2021, 13, 1167.	1.2	11
29	Adjusted friction correction factors for center-pivots with an end-gun. Irrigation Science, 2013, 31, 351-358.	1.3	10
30	Detecting fruit surface wetness using a custom-built low-resolution thermal-RGB imager. Computers and Electronics in Agriculture, 2019, 157, 509-517.	3.7	10
31	Analytical Determination of Distribution Uniformity for Microirrigation Tapered Laterals Laid on Uphill and Horizontal Slopes. Journal of Irrigation and Drainage Engineering - ASCE, 2013, 139, 483-489.	0.6	9
32	Hydraulic Performance Assessment of Lesa at low Pressure. Irrigation and Drainage, 2016, 65, 530-536.	0.8	9
33	Linear mixed modeling and artificial neural network techniques for predicting wind drift and evaporation losses under moving sprinkler irrigation systems. Irrigation Science, 2020, 38, 177-188.	1.3	6
34	Monitoring water status in apple trees using a sensitive morning crop water stress index*. Irrigation and Drainage, 2021, 70, 27-41.	0.8	5
35	Large scale evaluation of a LEPA/LESA system compared with MESA on spearmint and peppermint. Industrial Crops and Products, 2021, 159, 113048.	2.5	5
36	Energy Grade Line Assessment for Tapered Microirrigation Laterals. Journal of Irrigation and Drainage Engineering - ASCE, 2016, 142, .	0.6	4

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37	In-field sensing for crop protection: Efficacy of air-blast sprayer generated crosswind in rainwater removal from cherry canopies. Crop Protection, 2017, 91, 27-33.	1.0	4
38	Deficit Irrigation in Vitis labruscana Bailey â€˜Concordâ€™ in Central Washington. Hortscience: A Publication of the American Society for Hortcultural Science, 2017, 52, 450-456.	0.5	3
39	Towards improving the global water application uniformity of centre pivots through lateral speed adjustment. Biosystems Engineering, 2022, 215, 215-227.	1.9	3
40	Closure to â€œModified G and GAVG Correction Factors for Laterals with Multiple Outlets and Outflowâ€•by Sayed-Hossein Sadeghi and Troy Peters. Journal of Irrigation and Drainage Engineering - ASCE, 2014, 140, 07014015.	0.6	2
41	Closure to â€˜â€˜Analytical Determination of Distribution Uniformity for Microirrigation Tapered Laterals Laid on Uphill and Horizontal Slopesâ€™â€™ by Sayed Hossein Sadeghi and Troy Peters. Journal of Irrigation and Drainage Engineering - ASCE, 2014, 140, 07014031.	0.6	2
42	Internet of Things enabled crop physiology sensing system for abiotic crop stress management in apple and sweet cherry. , 2020, , .		1
43	Spatiotemporal water use mapping of a commercial apple orchard using UAS based spectral imagery. , 2020, , .		1
44	An Artificial Dry Reference Surface for Predicting Canopy Temperature Dynamics from a Moving Irrigation System. , 2006, , 1.		0
45	Geospatial apple canopy transpiration mapping: effect of in-field and open-field weather. , 2021, , .		0