

Troy Peters

List of Publications by Year in descending order

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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	Towards improving the global water application uniformity of centre pivots through lateral speed adjustment. <i>Biosystems Engineering</i> , 2022, 215, 215-227.	1.9	3
2	Monitoring water status in apple trees using a sensitive morning crop water stress index*. <i>Irrigation and Drainage</i> , 2021, 70, 27-41.	0.8	5
3	Large scale evaluation of a LEPA/LESA system compared with MESA on spearmint and peppermint. <i>Industrial Crops and Products</i> , 2021, 159, 113048.	2.5	5
4	High-Resolution Spatiotemporal Water Use Mapping of Surface and Direct-Root-Zone Drip-Irrigated Grapevines Using UAS-Based Thermal and Multispectral Remote Sensing. <i>Remote Sensing</i> , 2021, 13, 954.	1.8	16
5	Impact of the Intermittency Movement of Center Pivots on Irrigation Uniformity. <i>Water (Switzerland)</i> , 2021, 13, 1167.	1.2	11
6	Accurate measurement of wind drift and evaporation losses could improve water application efficiency of sprinkler irrigation systems – A comparison of measuring techniques. <i>Agricultural Water Management</i> , 2021, 258, 107209.	2.4	12
7	Geospatial apple canopy transpiration mapping: effect of in-field and open-field weather. , 2021, , .		0
8	Low Orbiting Satellite and Small UAS-Based High-Resolution Imagery Data to Quantify Crop Lodging: A Case Study in Irrigated Spearmint. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 755-759.	1.4	18
9	Linear mixed modeling and artificial neural network techniques for predicting wind drift and evaporation losses under moving sprinkler irrigation systems. <i>Irrigation Science</i> , 2020, 38, 177-188.	1.3	6
10	High Resolution Geospatial Evapotranspiration Mapping of Irrigated Field Crops Using Multispectral and Thermal Infrared Imagery with METRIC Energy Balance Model. <i>Drones</i> , 2020, 4, 52.	2.7	21
11	Using stable water isotopes to assess the influence of irrigation structural configurations on evaporation losses in semiarid agricultural systems. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108083.	1.9	17
12	Internet of Things enabled crop physiology sensing system for abiotic crop stress management in apple and sweet cherry. , 2020, , .		1
13	In-field crop physiology sensing aided real-time apple fruit surface temperature monitoring for sunburn prediction. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105558.	3.7	21
14	Smartphone Application-Enabled Apple Fruit Surface Temperature Monitoring Tool for In-Field and Real-Time Sunburn Susceptibility Prediction. <i>Sensors</i> , 2020, 20, 608.	2.1	17
15	Spatiotemporal water use mapping of a commercial apple orchard using UAS based spectral imagery. , 2020, , .		1
16	Estimating Biomass and Yield Using METRIC Evapotranspiration and Simple Growth Algorithms. <i>Agronomy Journal</i> , 2019, 111, 536-544.	0.9	20
17	Detecting fruit surface wetness using a custom-built low-resolution thermal-RGB imager. <i>Computers and Electronics in Agriculture</i> , 2019, 157, 509-517.	3.7	10
18	Evaluating water application efficiency of low and mid elevation spray application under changing weather conditions. <i>Agricultural Water Management</i> , 2019, 221, 84-91.	2.4	15

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19	Adjusting irrigation uniformity coefficients for unimportant variability on a small scale. <i>Agricultural Water Management</i> , 2019, 213, 1078-1083.	2.4	15
20	Economical thermal-RGB imaging system for monitoring agricultural crops. <i>Computers and Electronics in Agriculture</i> , 2018, 147, 34-43.	3.7	49
21	Climate change reduces water availability for agriculture by decreasing non-evaporative irrigation losses. <i>Journal of Hydrology</i> , 2018, 561, 444-460.	2.3	52
22	Continuous variation of wind drift and evaporation losses under a linear move irrigation system. <i>Agricultural Water Management</i> , 2017, 182, 39-54.	2.4	19
23	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. <i>Industrial Crops and Products</i> , 2017, 98, 82-92.	2.5	20
24	Deficit Irrigation in <i>Vitis labruscana</i> Bailey "Concord"™ in Central Washington. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2017, 52, 450-456.	0.5	3
25	In-field sensing for crop protection: Efficacy of air-blast sprayer generated crosswind in rainwater removal from cherry canopies. <i>Crop Protection</i> , 2017, 91, 27-33.	1.0	4
26	Hydraulic Performance Assessment of Lesa at low Pressure. <i>Irrigation and Drainage</i> , 2016, 65, 530-536.	0.8	9
27	Comparison of irrigation automation algorithms for drip-irrigated apple trees. <i>Computers and Electronics in Agriculture</i> , 2016, 128, 87-99.	3.7	62
28	Energy Grade Line Assessment for Tapered Microirrigation Laterals. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2016, 142, .	0.6	4
29	Efficacy of unmanned helicopter in rainwater removal from cherry canopies. <i>Computers and Electronics in Agriculture</i> , 2016, 124, 161-167.	3.7	16
30	Daylight crop water stress index for continuous monitoring of water status in apple trees. <i>Irrigation Science</i> , 2016, 34, 209-219.	1.3	19
31	Design of Zero Slope Microirrigation Laterals: Effect of the Friction Factor Variation. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2015, 141, .	0.6	18
32	Automatic irrigation scheduling of apple trees using theoretical crop water stress index with an innovative dynamic threshold. <i>Computers and Electronics in Agriculture</i> , 2015, 118, 193-203.	3.7	67
33	Closure to "Modified G and GAVG Correction Factors for Laterals with Multiple Outlets and Outflow" by Sayed-Hossein Sadeghi and Troy Peters. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2014, 140, 07014015.	0.6	2
34	Modeling Apple Surface Temperature Dynamics Based on Weather Data. <i>Sensors</i> , 2014, 14, 20217-20234.	2.1	25
35	Closure to "Analytical Determination of Distribution Uniformity for Microirrigation Tapered Laterals Laid on Uphill and Horizontal Slopes" by Sayed Hossein Sadeghi and Troy Peters. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2014, 140, 07014031.	0.6	2
36	Adjusted friction correction factors for center-pivots with an end-gun. <i>Irrigation Science</i> , 2013, 31, 351-358.	1.3	10

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37	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
38	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
39	Impact of sustained deficit irrigation on spearmint (<i>Mentha spicata</i> L.) biomass production, oil yield, and oil quality. Irrigation Science, 2012, 30, 213-219.	1.3	22
40	Wetting Pattern Models for Drip Irrigation: New Empirical Model. Journal of Irrigation and Drainage Engineering - ASCE, 2011, 137, 530-536.	0.6	42
41	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
42	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
43	Morphological and Physiological Traits Associated with Canopy Temperature Depression in Three Closely Related Wheat Lines. Crop Science, 2008, 48, 1897-1910.	0.8	85
44	An Artificial Dry Reference Surface for Predicting Canopy Temperature Dynamics from a Moving Irrigation System. , 2006, , 1.		0
45	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