

# Jose Chavez

## List of Publications by Year in descending order

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Version: 2024-02-01

86  
papers

2,284  
citations

236612

25  
h-index

223531

46  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of image spatial resolution and statistical scale on water stress estimation performance of MGDEXG: A new crop water stress indicator derived from RGB images. <i>Agricultural Water Management</i> , 2022, 264, 107506.	2.4	4
2	Updating Corn Crop Coefficients with Remote Sensing-Based Actual Evapotranspiration Algorithms. , 2022, , .		1
3	Correction of Eddy Covariance Based Crop ET Considering the Heat Flux Source Area. <i>Atmosphere</i> , 2021, 12, 281.	1.0	2
4	The mean value of gaussian distribution of excess green index: A new crop water stress indicator. <i>Agricultural Water Management</i> , 2021, 251, 106866.	2.4	10
5	Evaluating the sensitivity of water stressed maize chlorophyll and structure based on UAV derived vegetation indices. <i>Computers and Electronics in Agriculture</i> , 2021, 185, 106174.	3.7	32
6	An optimized surface aerodynamic temperature approach to estimate maize sensible heat flux and evapotranspiration. <i>Agricultural and Forest Meteorology</i> , 2021, 311, 108683.	1.9	7
7	Use of Predictive Weather Uncertainties in an Irrigation Scheduling Tool Part I: A Review of Metrics and Adjoint Methods. <i>Journal of the American Water Resources Association</i> , 2020, 56, 187-200.	1.0	2
8	A Decade of Unmanned Aerial Systems in Irrigated Agriculture in the Western U.S.. <i>Applied Engineering in Agriculture</i> , 2020, 36, 423-436.	0.3	12
9	Use of Predictive Weather Uncertainties in an Irrigation Scheduling Tool Part II: An Application of Metrics and Adjoints. <i>Journal of the American Water Resources Association</i> , 2020, 56, 201-211.	1.0	2
10	Determining maize water stress through a remote sensing-based surface energy balance approach. <i>Irrigation Science</i> , 2020, 38, 501-518.	1.3	10
11	Evapotranspiration and crop coefficients from lysimeter measurements for sprinkler-irrigated canola. <i>Agricultural Water Management</i> , 2020, 239, 106260.	2.4	16
12	Hourly Alfalfa Evapotranspiration Estimation Using Variable Bulk Surface Resistance. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2019, 145, 04019023.	0.6	0
13	Deficit Irrigation Management of Maize in the High Plains Aquifer Region: A Review. <i>Journal of the American Water Resources Association</i> , 2019, 55, 38-55.	1.0	32
14	Parameterization of a Clumped Model to Directly Simulate Actual Evapotranspiration over a Superintensive Drip-Irrigated Olive Orchard. <i>Journal of Hydrometeorology</i> , 2019, 20, 935-946.	0.7	5
15	One-step approach for estimating maize actual water use: Part I. Modeling a variable surface resistance. <i>Irrigation Science</i> , 2019, 37, 123-137.	1.3	4
16	One-step approach for estimating maize actual water use: part II. Lysimeter evaluation of variable surface resistance models. <i>Irrigation Science</i> , 2019, 37, 139-150.	1.3	2
17	Improved soil water deficit estimation through the integration of canopy temperature measurements into a soil water balance model. <i>Irrigation Science</i> , 2018, 36, 187-201.	1.3	14
18	Modeling Corn Surface Resistance to Estimate Actual Water Use. , 2018, , .		0

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19	Evaluation of multispectral unmanned aerial systems for irrigation management. , 2018, , .		2
20	Calibration and validation of an aerodynamic method to estimate the spatial variability of sensible and latent heat fluxes over a drip-irrigated Merlot vineyard. International Journal of Remote Sensing, 2017, 38, 7473-7496.	1.3	3
21	Evaluation of thermal remote sensing indices to estimate crop evapotranspiration coefficients. Agricultural Water Management, 2017, 179, 64-73.	2.4	82
22	ASCE-EWRI standardized Penman-Monteith evapotranspiration (ET) equation performance in southeastern Colorado. Agricultural Water Management, 2017, 179, 74-80.	2.4	8
23	Developing an Unmanned Aerial Remote Sensing of ET System. , 2016, , .		0
24	Assessing corn water stress using spectral reflectance. International Journal of Remote Sensing, 2016, 37, 2294-2312.	1.3	17
25	A method to correct eddy covariance flux underestimates under an advective environment for arid or semi-arid regions. Physics and Chemistry of the Earth, 2016, 96, 2-15.	1.2	4
26	Handheld Infra-Red Thermometry Calibration: Monitoring Crop Water Stress. , 2015, , .		0
27	SEBAL-A: A Remote Sensing ET Algorithm that Accounts for Advection with Limited Data. Part I: Development and Validation. Remote Sensing, 2015, 7, 15046-15067.	1.8	33
28	SEBAL-A: A Remote Sensing ET Algorithm that Accounts for Advection with Limited Data. Part II: Test for Transferability. Remote Sensing, 2015, 7, 15068-15081.	1.8	7
29	Quantifying crop water stress factors from soil water measurements in a limited irrigation experiment. Agricultural Systems, 2015, 137, 191-205.	3.2	38
30	Developing and normalizing average corn crop water production functions across years and locations using a system model. Agricultural Water Management, 2015, 157, 65-77.	2.4	35
31	Assessing Inter-Sensor Variability and Sensible Heat Flux Derivation Accuracy for a Large Aperture Scintillometer. Sensors, 2014, 14, 2150-2170.	2.1	6
32	Minimizing instrumentation requirement for estimating crop water stress index and transpiration of maize. Irrigation Science, 2014, 32, 53-65.	1.3	37
33	Enhancing the Water Stress Factors for Simulation of Corn in RZWQM2. Agronomy Journal, 2014, 106, 81-94.	0.9	44
34	Optical and Thermal Remote Sensing of Turfgrass Quality, Water Stress, and Water Use under Different Soil and Irrigation Treatments. Remote Sensing, 2013, 5, 2327-2347.	1.8	21
35	Performance of atmometers in estimating reference evapotranspiration in a semi-arid environment. Agricultural Water Management, 2013, 130, 27-35.	2.4	8
36	Modeling shortwave solar radiation using the JGrass-NewAge system. Geoscientific Model Development, 2013, 6, 915-928.	1.3	17

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37	Evaluating Crop Water Stress under Limited Irrigation Practices. , 2012, , .		2
38	Performance of a Monthly Streamflow Prediction Model for Ungauged Watersheds in Spain. Water Resources Management, 2012, 26, 3767-3784.	1.9	6
39	ET Mapping with High-Resolution Airborne Remote Sensing Data in an Advective Semiarid Environment. Journal of Irrigation and Drainage Engineering - ASCE, 2012, 138, 416-423.	0.6	18
40	Mapping daily evapotranspiration at Landsat spatial scales during the BEAREXâ€™08 field campaign. Advances in Water Resources, 2012, 50, 162-177.	1.7	111
41	Evaluating the two-source energy balance model using local thermal and surface flux observations in a strongly advective irrigated agricultural area. Advances in Water Resources, 2012, 50, 120-133.	1.7	66
42	Estimation of surface energy fluxes using surface renewal and flux variance techniques over an advective irrigated agricultural site. Advances in Water Resources, 2012, 50, 91-105.	1.7	26
43	On the discrepancy between eddy covariance and lysimetry-based surface flux measurements under strongly advective conditions. Advances in Water Resources, 2012, 50, 62-78.	1.7	81
44	Evaporative loss from irrigated interrows in a highly advective semi-arid agricultural area. Advances in Water Resources, 2012, 50, 20-30.	1.7	81
45	Patch scale turbulence over dryland and irrigated surfaces in a semi-arid landscape under advective conditions during BEAREX08. Advances in Water Resources, 2012, 50, 106-119.	1.7	18
46	Soil water content estimation using a remote sensing based hybrid evapotranspiration modeling approach. Advances in Water Resources, 2012, 50, 152-161.	1.7	64
47	Infrared Thermometry to Estimate Crop Water Stress Index and Water Use of Irrigated Maize in Northeastern Colorado. Remote Sensing, 2012, 4, 3619-3637.	1.8	79
48	Evaluating Remote Sensing-based Crop Water Use Monitoring Methods Using Soil Moisture Sensors. , 2012, , .		0
49	Performance evaluation and calibration of soil water content and potential sensors for agricultural soils in eastern Colorado. Agricultural Water Management, 2011, 101, 93-106.	2.4	69
50	Soil Heat Flux Modeling Using Artificial Neural Networks and Multispectral Airborne Remote Sensing Imagery. Remote Sensing, 2011, 3, 1627-1643.	1.8	6
51	Using a Surface Energy Balance Model to Calculate Spatially Distributed Actual Evapotranspiration. Journal of Irrigation and Drainage Engineering - ASCE, 2011, 137, 17-26.	0.6	24
52	Intercomparison of Nine Micrometeorological Stations during the BEAREX08 Field Campaign. Journal of Atmospheric and Oceanic Technology, 2011, 28, 1390-1406.	0.5	20
53	Compensating inherent linear move water application errors using a variable rate irrigation system. Irrigation Science, 2010, 28, 203-210.	1.3	17
54	A Remote Irrigation Monitoring and Control System for continuous move systems. Part A: description and development. Precision Agriculture, 2010, 11, 1-10.	3.1	36

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55	A remote irrigation monitoring and control system (RIMCS) for continuous move systems. Part B: field testing and results. Precision Agriculture, 2010, 11, 11-26.	3.1	22
56	Precision Irrigation with Wireless Monitoring and Control System Technology. , 2010, , .		0
57	Surface Aerodynamic Temperature Modeling over Rainfed Cotton. Transactions of the ASABE, 2010, 53, 759-767.	1.1	13
58	Alfalfa ET from a Weighing Lysimeter in the Arkansas Valley of Colorado. , 2010, , .		3
59	Remote Sensing ET of Alfalfa Using a Surface Aerodynamic Temperature Model. , 2010, , .		0
60	Surface Aerodynamic Temperature Derived from Wind/Temperature Profile Measurements over Cotton and Alfalfa in a Semi-Arid Environment. , 2010, , .		0
61	Modeling Surface Aerodynamic Temperature in a Semi-Arid Advective Environment. , 2009, , .		0
62	Radiometric surface temperature calibration effects on satellite based evapotranspiration estimation. International Journal of Remote Sensing, 2009, 30, 2337-2354.	1.3	19
63	Estimating hourly crop ET using a two-source energy balance model and multispectral airborne imagery. Irrigation Science, 2009, 28, 79-91.	1.3	36
64	Evaluating eddy covariance cotton ET measurements in an advective environment with large weighing lysimeters. Irrigation Science, 2009, 28, 35-50.	1.3	81
65	Evaluating eddy covariance cotton ET measurements in an advective environment with large weighing lysimeters. , 2009, 28, 35.		1
66	Mapping ET at High Resolution in an Advective Semi-Arid Environment with Airborne Multispectral Imagery. , 2009, , .		0
67	ET mapping for agricultural water management: present status and challenges. Irrigation Science, 2008, 26, 223-237.	1.3	296
68	Daily evapotranspiration estimates from extrapolating instantaneous airborne remote sensing ET values. Irrigation Science, 2008, 27, 67-81.	1.3	111
69	Comparing SEBAL ET with Lysimeter Data in the Semi-Arid Texas High Plains. , 2008, , .		5
70	Remote sensing of contrasting tillage practices in the Texas Panhandle. International Journal of Remote Sensing, 2008, 29, 3477-3487.	1.3	14
71	Surface Energy Balance Based Evapotranspiration Mapping in the Texas High Plains. Sensors, 2008, 8, 5186-5201.	2.1	50
72	Estimating Seasonal ET from Multispectral Airborne Imagery: An Evaluation of Interpolation-Extrapolation Techniques. , 2008, , .		1

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73	Remote Sensing Based Energy Balance Algorithms for Mapping ET: Current Status and Future Challenges. Transactions of the ASABE, 2007, 50, 1639-1644.	1.1	76
74	Evapotranspiration Mapping Using METRIC <sup>TM</sup> for a Region with Highly Advective Conditions. , 2007, , .		0
75	Relationship between LAI and Landsat TM Spectral Vegetation Indices in the Texas Panhandle. , 2007, , .		0
76	A Simple Empirical Stream Flow Prediction Model for Ungauged Watersheds. , 2007, , .		1
77	A Remote-Real-Time Continuous Move Irrigation Control and Monitoring System. , 2006, , .		4
78	Software Design for Wireless In-field Sensor-based Irrigation Management. , 2006, , .		4
79	Performance of a Continuous Move Irrigation Control and Monitoring System. , 2006, , .		1
80	Integration and weighting of remotely sensed energy balance fluxes. , 2005, 5976, 152.		2
81	Comparing Aircraft-Based Remotely Sensed Energy Balance Fluxes with Eddy Covariance Tower Data Using Heat Flux Source Area Functions. Journal of Hydrometeorology, 2005, 6, 923-940.	0.7	82
82	Upscaling ground observations of vegetation water content, canopy height, and leaf area index during SMEX02 using aircraft and Landsat imagery. Remote Sensing of Environment, 2004, 92, 447-464.	4.6	203
83	Validating Airborne Multispectral Remotely Sensed Heat Fluxes with Ground Energy Balance Tower and Heat Flux Source Area (Footprint) Functions. , 2003, , .		5
84	Obtaining Spatial Air Temperature from Airborne Radiometric Crop Canopy Temperature. , 2002, , .		0
85	Mezcalar Watershed Sedimentation Study and GIS based Watershed Management Analysis. , 0, , .		0
86	Intercomparison of Nine Micrometeorological Stations During the BEAREX08 Field Campaign. Journal of Atmospheric and Oceanic Technology, 0, , 110805102234009.	0.5	1