

Sad Khabba

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

1,428
citations

22
h-index

37
g-index

59
ext. papers

1,733
ext. citations

4.9
avg, IF

4.4
L-index

#	Paper	IF	Citations
56	Data Science Toolkit: An all-in-one python library to help researchers and practitioners in implementing data science-related algorithms with less effort. <i>Software Impacts</i> , 2022 , 12, 100240	1.8	0
55	A Systematic National Stocktake of Crop Models in Morocco. <i>Ecological Modelling</i> , 2022 , 470, 110036	3	0
54	Snow hydrology in the Moroccan Atlas Mountains. <i>Journal of Hydrology: Regional Studies</i> , 2022 , 42, 1011016	10.6	2
53	Assessing Irrigation Water Use with Remote Sensing-Based Soil Water Balance at an Irrigation Scheme Level in a Semi-Arid Region of Morocco. <i>Remote Sensing</i> , 2021 , 13, 1133	5	4
52	Integrating thermal stress indexes within Shuttleworth-Wallace model for evapotranspiration mapping over a complex surface. <i>Irrigation Science</i> , 2021 , 39, 45-61	3.1	5
51	Projection of irrigation water demand based on the simulation of synthetic crop coefficients and climate change. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 637-651	5.5	7
50	On the Utility of High-Resolution Soil Moisture Data for Better Constraining Thermal-Based Energy Balance over Three Semi-Arid Agricultural Areas. <i>Remote Sensing</i> , 2021 , 13, 727	5	4
49	Irrigation Amounts and Timing Retrieval through Data Assimilation of Surface Soil Moisture into the FAO-56 Approach in the South Mediterranean Region. <i>Remote Sensing</i> , 2021 , 13, 2667	5	3
48	C-band radar data and in situ measurements for the monitoring of wheat crops in a semi-arid area (center of Morocco). <i>Earth System Science Data</i> , 2021 , 13, 3707-3731	10.5	2
47	Cereal Yield Forecasting with Satellite Drought-Based Indices, Weather Data and Regional Climate Indices Using Machine Learning in Morocco. <i>Remote Sensing</i> , 2021 , 13, 3101	5	10
46	Optimizing the Sowing Date to Improve Water Management and Wheat Yield in a Large Irrigation Scheme, through a Remote Sensing and an Evolution Strategy-Based Approach. <i>Remote Sensing</i> , 2021 , 13, 3789	5	1
45	Linkages between Rainfed Cereal Production and Agricultural Drought through Remote Sensing Indices and a Land Data Assimilation System: A Case Study in Morocco. <i>Remote Sensing</i> , 2020 , 12, 4018	5	5
44	Evaluation of Backscattering Models and Support Vector Machine for the Retrieval of Bare Soil Moisture from Sentinel-1 Data. <i>Remote Sensing</i> , 2020 , 12, 72	5	38
43	Evapotranspiration partition using the multiple energy balance version of the ISBA-A-g_g<sub>s</sub></sub> land surface model over two irrigated crops in a semi-arid Mediterranean region (Marrakech, Morocco). <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 3789-3814	5.5	6
42	A Simple Light-Use-Efficiency Model to Estimate Wheat Yield in the Semi-Arid Areas. <i>Agronomy</i> , 2020 , 10, 1524	3.6	2
41	Monitoring of wheat crops using the backscattering coefficient and the interferometric coherence derived from Sentinel-1 in semi-arid areas. <i>Remote Sensing of Environment</i> , 2020 , 251, 112050	13.2	19
40	Multi-Scale Evaluation of the TSEB Model over a Complex Agricultural Landscape in Morocco. <i>Remote Sensing</i> , 2020 , 12, 1181	5	3

39	An evapotranspiration model self-calibrated from remotely sensed surface soil moisture, land surface temperature and vegetation cover fraction: application to disaggregated SMOS and MODIS data. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 1781-1803	5.5	9
38	Evaluation of Groundwater Quality and Agricultural use Under a Semi-arid Environment: Case of Agafay, Western Haouz, Morocco. <i>Irrigation and Drainage</i> , 2019 , 68, 778-796	1.1	5
37	Assessing the impact of global climate changes on irrigated wheat yields and water requirements in a semi-arid environment of Morocco. <i>Scientific Reports</i> , 2019 , 9, 19142	4.9	38
36	Partitioning evapotranspiration of a drip-irrigated wheat crop: Inter-comparing eddy covariance-, sap flow-, lysimeter- and FAO-based methods. <i>Agricultural and Forest Meteorology</i> , 2019 , 265, 310-326	5.8	39
35	A phenomenological model of soil evaporative efficiency using surface soil moisture and temperature data. <i>Agricultural and Forest Meteorology</i> , 2018 , 256-257, 501-515	5.8	20
34	Retrieving surface soil moisture at high spatio-temporal resolution from a synergy between Sentinel-1 radar and Landsat thermal data: A study case over bare soil. <i>Remote Sensing of Environment</i> , 2018 , 211, 321-337	13.2	78
33	Calibrating an evapotranspiration model using radiometric surface temperature, vegetation cover fraction and near-surface soil moisture data. <i>Agricultural and Forest Meteorology</i> , 2018 , 256-257, 104-115	5.8	29
32	Estimating the water budget components of irrigated crops: Combining the FAO-56 dual crop coefficient with surface temperature and vegetation index data. <i>Agricultural Water Management</i> , 2018 , 208, 120-131	5.9	19
31	Evaluation and analysis of deep percolation losses of drip irrigated citrus crops under non-saline and saline conditions in a semi-arid area. <i>Biosystems Engineering</i> , 2018 , 165, 10-24	4.8	15
30	Toward a Surface Soil Moisture Product at High Spatiotemporal Resolution: Temporally Interpolated, Spatially Disaggregated SMOS Data. <i>Journal of Hydrometeorology</i> , 2018 , 19, 183-200	3.7	19
29	Combining a Two Source Energy Balance Model Driven by MODIS and MSG-SEVIRI Products with an Aggregation Approach to Estimate Turbulent Fluxes over Sparse and Heterogeneous Vegetation in Sahel Region (Niger). <i>Remote Sensing</i> , 2018 , 10, 974	5	7
28	A simple and alternative approach based on reference evapotranspiration and leaf area index for estimating tree transpiration in semi-arid regions. <i>Agricultural Water Management</i> , 2017 , 188, 61-68	5.9	13
27	Modified Penman-Monteith equation for monitoring evapotranspiration of wheat crop: Relationship between the surface resistance and remotely sensed stress index. <i>Biosystems Engineering</i> , 2017 , 164, 68-84	4.8	23
26	Performance of the two-source energy budget (TSEB) model for the monitoring of evapotranspiration over irrigated annual crops in North Africa. <i>Agricultural Water Management</i> , 2017 , 193, 71-88	5.9	31
25	Normalizing land surface temperature data for elevation and illumination effects in mountainous areas: A case study using ASTER data over a steep-sided valley in Morocco. <i>Remote Sensing of Environment</i> , 2017 , 189, 25-39	13.2	42
24	Disaggregation of SMOS Soil Moisture to 100 m Resolution Using MODIS Optical/Thermal and Sentinel-1 Radar Data: Evaluation over a Bare Soil Site in Morocco. <i>Remote Sensing</i> , 2017 , 9, 1155	5	14
23	Assessment of Soil Quality for a Semi-Arid Irrigated Under Citrus Orchard : Case of the Haouz Plain, Morocco. <i>European Scientific Journal</i> , 2017 , 13, 367	1.2	2
22	Performance assessment of AquaCrop model for estimating evapotranspiration, soil water content and grain yield of winter wheat in Tensift Al Haouz (Morocco): Application to irrigation management. <i>Agricultural Water Management</i> , 2016 , 163, 219-235	5.9	80

21	Modeling soil evaporation efficiency in a range of soil and atmospheric conditions using a meta-analysis approach. <i>Water Resources Research</i> , 2016 , 52, 3663-3684	5.4	39
20	Combining stable isotopes, Eddy Covariance system and meteorological measurements for partitioning evapotranspiration, of winter wheat, into soil evaporation and plant transpiration in a semi-arid region. <i>Agricultural Water Management</i> , 2016 , 177, 181-192	5.9	44
19	Performance Metrics for Soil Moisture Downscaling Methods: Application to DISPATCH Data in Central Morocco. <i>Remote Sensing</i> , 2015 , 7, 3783-3807	5	55
18	Consistency between In Situ, Model-Derived and High-Resolution-Image-Based Soil Temperature Endmembers: Towards a Robust Data-Based Model for Multi-Resolution Monitoring of Crop Evapotranspiration. <i>Remote Sensing</i> , 2015 , 7, 10444-10479	5	23
17	Irrigation scheduling of a classical gravity network based on the Covariance Matrix Adaptation Evolutionary Strategy algorithm. <i>Computers and Electronics in Agriculture</i> , 2014 , 102, 64-72	6.5	23
16	Linkages between common wheat yields and climate in Morocco (1982-2008). <i>International Journal of Biometeorology</i> , 2014 , 58, 1489-502	3.7	20
15	A Life-Size and Near Real-Time Test of Irrigation Scheduling with a Sentinel-2 Like Time Series (SPOT4-Take5) in Morocco. <i>Remote Sensing</i> , 2014 , 6, 11182-11203	5	24
14	A new irrigation priority index based on remote sensing data for assessing the networks irrigation scheduling. <i>Agricultural Water Management</i> , 2013 , 119, 1-9	5.9	34
13	An Agent based Modeling for the Gravity Irrigation Management. <i>Procedia Environmental Sciences</i> , 2013 , 19, 804-813		2
12	Assessment of Equity and Adequacy of Water Delivery in Irrigation Systems Using Remote Sensing-Based Indicators in Semi-Arid Region, Morocco. <i>Water Resources Management</i> , 2013 , 27, 4697-4714	3.7	30
11	Automatic unmixing of MODIS multi-temporal data for inter-annual monitoring of land use at a regional scale (Tensift, Morocco). <i>International Journal of Remote Sensing</i> , 2012 , 33, 1325-1348	3.1	13
10	Observation spatiale à haute résolution spatiale et temporelle : applications pour le suivi de la ressource hydrique en milieu agricole semi-aride. <i>Houille Blanche</i> , 2010 , 96, 45-52	0.3	
9	Assessment of reference evapotranspiration methods in semi-arid regions: Can weather forecast data be used as alternate of ground meteorological parameters?. <i>Journal of Arid Environments</i> , 2010 , 74, 1587-1596	2.5	62
8	Citrus orchard evapotranspiration: Comparison between eddy covariance measurements and the FAO-56 approach estimates. <i>Plant Biosystems</i> , 2009 , 143, 201-208	1.6	32
7	Evaluation of Digital Hemispherical Photography and Plant Canopy Analyzer for Measuring Vegetation Area Index of Orange Orchards. <i>Journal of Agronomy</i> , 2009 , 8, 67-72	0.4	14
6	An integrated modelling and remote sensing approach for hydrological study in arid and semi-arid regions: the SUDMED Programme. <i>International Journal of Remote Sensing</i> , 2008 , 29, 5161-5181	3.1	91
5	Monitoring wheat phenology and irrigation in Central Morocco: On the use of relationships between evapotranspiration, crops coefficients, leaf area index and remotely-sensed vegetation indices. <i>Agricultural Water Management</i> , 2006 , 79, 1-27	5.9	284
4	Wheat yield estimation using remote sensing and the STICS model in the semiarid Yaqui valley, Mexico. <i>Agronomy for Sustainable Development</i> , 2004 , 24, 295-304		27

3	Maize ear temperature. <i>European Journal of Agronomy</i> , 2001 , 14, 197-208	5	10
2	Development and validation of model for estimating temperature within maize ear. <i>Agricultural and Forest Meteorology</i> , 2001 , 106, 131-146	5.8	2
1	Development and validation of model of heat diffusion in maize ear. <i>Agricultural and Forest Meteorology</i> , 1999 , 97, 113-127	5.8	5