

Salah Er-Raki

List of Publications by Citations

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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.

68

papers

2,295

citations

26

h-index

47

g-index

89

ext. papers

2,703

ext. citations

4.9

avg, IF

4.82

L-index

#	Paper	IF	Citations
68	Evapotranspiration components determined by stable isotope, sap flow and eddy covariance techniques. <i>Agricultural and Forest Meteorology</i> , 2004 , 125, 241-258	5.8	352
67	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
66	Combining FAO-56 model and ground-based remote sensing to estimate water consumptions of wheat crops in a semi-arid region. <i>Agricultural Water Management</i> , 2007 , 87, 41-54	5.9	186
65	Using the dual approach of FAO-56 for partitioning ET into soil and plant components for olive orchards in a semi-arid region. <i>Agricultural Water Management</i> , 2010 , 97, 1769-1778	5.9	87
64	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
63	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
62	Intercomparison of four remote-sensing-based energy balance methods to retrieve surface evapotranspiration and water stress of irrigated fields in semi-arid climate. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 1165-1188	5.5	69
61	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
60	Improvement of FAO-56 method for olive orchards through sequential assimilation of thermal infrared-based estimates of ET. <i>Agricultural Water Management</i> , 2008 , 95, 309-321	5.9	61
59	The use of the scintillation technique for monitoring seasonal water consumption of olive orchards in a semi-arid region. <i>Agricultural Water Management</i> , 2007 , 89, 173-184	5.9	59
58	Combining Satellite Remote Sensing Data with the FAO-56 Dual Approach for Water Use Mapping In Irrigated Wheat Fields of a Semi-Arid Region. <i>Remote Sensing</i> , 2010 , 2, 375-387	5	56
57	Performance Metrics for Soil Moisture Downscaling Methods: Application to DISPATCH Data in Central Morocco. <i>Remote Sensing</i> , 2015 , 7, 3783-3807	5	55
56	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
55	Determination of crop evapotranspiration of table grapes in a semi-arid region of Northwest Mexico using multi-spectral vegetation index. <i>Agricultural Water Management</i> , 2013 , 122, 12-19	5.9	39
54	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
53	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
52	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

51	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
50	The SPARSE model for the prediction of water stress and evapotranspiration components from thermal infra-red data and its evaluation over irrigated and rainfed wheat. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 4653-4672	5.5	36
49	Using an unsupervised approach of Probabilistic Neural Network (PNN) for land use classification from multitemporal satellite images. <i>Applied Soft Computing Journal</i> , 2015 , 30, 1-13	7.5	35
48	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
47	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
46	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
45	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
44	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
43	Combining a large aperture scintillometer and estimates of available energy to derive evapotranspiration over several agricultural fields in a semi-arid region. <i>Plant Biosystems</i> , 2009 , 143, 209-221	1.6	26
42	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
41	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
40	Including Sentinel-1 radar data to improve the disaggregation of MODIS land surface temperature data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019 , 150, 11-26	11.8	23
39	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
38	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
37	Irrigation retrieval from Landsat optical/thermal data integrated into a crop water balance model: A case study over winter wheat fields in a semi-arid region. <i>Remote Sensing of Environment</i> , 2020 , 239, 111627	13.2	22
36	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
35	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
34	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

33	Water use efficiency and yield of winter wheat under different irrigation regimes in a semi-arid region. <i>Agricultural Sciences</i> , 2011 , 02, 273-282	0.4	18
32	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
31	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
30	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
29	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
28	Stepwise Disaggregation of SMAP Soil Moisture at 100 m Resolution Using Landsat-7/8 Data and a Varying Intermediate Resolution. <i>Remote Sensing</i> , 2019 , 11, 1863	5	13
27	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
26	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
25	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
24	Evapotranspiration partition using the multiple energy balance version of the ISBA-A-g<sub>s</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
23	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
22	Disinfection of Treated Wastewater and its Reuse in the Irrigation of Golf Grass: The Case of Plant M&bar;ar Agadir-Morocco. <i>Water (Switzerland)</i> , 2011 , 3, 1128-1138	3	5
21	Integrating thermal stress indexes within ShuttleworthWallace model for evapotranspiration mapping over a complex surface. <i>Irrigation Science</i> , 2021 , 39, 45-61	3.1	5
20	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
19	Ability of a soilVegetation<sub>atm> atmosphere transfer model and a two-source energy balance model to predict evapotranspiration for several crops and climate conditions. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 5033-5058	5.5	4
18	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
17	Temporal Calibration of an Evaporation-Based Spatial Disaggregation Method of SMOS Soil Moisture Data. <i>Remote Sensing</i> , 2020 , 12, 1671	5	3
16	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		3

15	Implementing a new texture-based soil evaporation reduction coefficient in the FAO dual crop coefficient method. <i>Agricultural Water Management</i> , 2021 , 250, 106827	5.9	3
14	Multi-Scale Evaluation of the TSEB Model over a Complex Agricultural Landscape in Morocco. <i>Remote Sensing</i> , 2020 , 12, 1181	5	3
13	Vulnerability of Barley, Maize, and Wheat Yields to Variations in Growing Season Precipitation in Morocco. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3407	2.6	3
12	A Simple Light-Use-Efficiency Model to Estimate Wheat Yield in the Semi-Arid Areas. <i>Agronomy</i> , 2020 , 10, 1524	3.6	2
11	Sequential Downscaling of the SMOS Soil Moisture at 100 M Resolution Via a Variable Intermediate Spatial Resolution 2018 ,		2
10	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
9	Retrieving Crop Albedo Based on Radar Sentinel-1 and Random Forest Approach. <i>Remote Sensing</i> , 2021 , 13, 3181	5	2
8	Snow hydrology in the Moroccan Atlas Mountains. <i>Journal of Hydrology: Regional Studies</i> , 2022 , 42, 1011016	10.6	2
7	Numerical and experimental study of free convection through a horizontal open-ended axisymmetric cavity. <i>Heat Transfer - Asian Research</i> , 2018 , 47, 437-457	2.8	1
6	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
5	Performance Evaluation of the WOFOST Model for Estimating Evapotranspiration, Soil Water Content, Grain Yield and Total Above-Ground Biomass of Winter Wheat in Tensift Al Haouz (Morocco): Application to Yield Gap Estimation. <i>Agronomy</i> , 2021 , 11, 2480	3.6	1
4	Assimilation of SMAP disaggregated soil moisture and Landsat land surface temperature to improve FAO-56 estimates of ET in semi-arid regions. <i>Agricultural Water Management</i> , 2022 , 260, 107290	5.9	0
3	A Systematic National Stocktake of Crop Models in Morocco. <i>Ecological Modelling</i> , 2022 , 470, 110036	3	0
2	Evapotranspiration estimates in a traditional irrigated area in semi-arid Mediterranean. Comparison of four remote sensing-based models. <i>Agricultural Water Management</i> , 2022 , 270, 107728	5.9	0
1	Ressources en eau, sociétés et territoires méditerranéens. L'interdisciplinarité pour répondre aux défis du changement climatique. <i>Natures Sciences Sociétés</i> , 2019 , 27, 219-224	0.2	