Salah Er-Raki

List of Publications by Year in Descending Order

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	Assimilation of SMAP disaggregated soil moisture and Landsat land surface temperature to improve FAO-56 estimates of ET in semi-arid regions. *Agricultural Water Management*, **2022**, 260, 107290	5.9	0
67	Vulnerability of Barley, Maize, and Wheat Yields to Variations in Growing Season Precipitation in Morocco. *Applied Sciences (Switzerland)*, **2022**, 12, 3407	2.6	3
66	A Systematic National Stocktake of Crop Models in Morocco. *Ecological Modelling*, **2022**, 470, 110036	3	0
65	Evapotranspiration estimates in a traditional irrigated area in semi-arid Mediterranean. Comparison of four remote sensing-based models. *Agricultural Water Management*, **2022**, 270, 107728	5.9	0
64	Snow hydrology in the Moroccan Atlas Mountains. *Journal of Hydrology: Regional Studies*, **2022**, 42, 101101	9.6	2
63	Assessing Irrigation Water Use with Remote Sensing-Based Soil Water Balance at an Irrigation Scheme Level in a Semi-Arid Region of Morocco. *Remote Sensing*, **2021**, 13, 1133	5	4
62	Implementing a new texture-based soil evaporation reduction coefficient in the FAO dual crop coefficient method. *Agricultural Water Management*, **2021**, 250, 106827	5.9	3
61	Integrating thermal stress indexes within Shuttleworth⊠Wallace model for evapotranspiration mapping over a complex surface. *Irrigation Science*, **2021**, 39, 45-61	3.1	5
60	On the Utility of High-Resolution Soil Moisture Data for Better Constraining Thermal-Based Energy Balance over Three Semi-Arid Agricultural Areas. *Remote Sensing*, **2021**, 13, 727	5	4
59	C-band radar data and in situ measurements for the monitoring of wheat crops in a semi-arid area (center of Morocco). *Earth System Science Data*, **2021**, 13, 3707-3731	10.5	2
58	Retrieving Crop Albedo Based on Radar Sentinel-1 and Random Forest Approach. *Remote Sensing*, **2021**, 13, 3181	5	2
57	Cereal Yield Forecasting with Satellite Drought-Based Indices, Weather Data and Regional Climate Indices Using Machine Learning in Morocco. *Remote Sensing*, **2021**, 13, 3101	5	10
56	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. *Remote Sensing*, **2021**, 13, 3789	5	1
55	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. *Agronomy*, **2021**, 11, 2480	3.6	1
54	Linkages between Rainfed Cereal Production and Agricultural Drought through Remote Sensing Indices and a Land Data Assimilation System: A Case Study in Morocco. *Remote Sensing*, **2020**, 12, 4018	5	5
53	Temporal Calibration of an Evaporation-Based Spatial Disaggregation Method of SMOS Soil Moisture Data. *Remote Sensing*, **2020**, 12, 1671	5	3
52	Evaluation of Backscattering Models and Support Vector Machine for the Retrieval of Bare Soil Moisture from Sentinel-1 Data. *Remote Sensing*, **2020**, 12, 72	5	38

51	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). *Hydrology and Earth System Sciences*, **2020**, 24, 3789-3814	5.5	6
50	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. *Remote Sensing of Environment*, **2020**, 239, 111627	13.2	22
49	A Simple Light-Use-Efficiency Model to Estimate Wheat Yield in the Semi-Arid Areas. *Agronomy*, **2020**, 10, 1524	3.6	2
48	Multi-Scale Evaluation of the TSEB Model over a Complex Agricultural Landscape in Morocco. *Remote Sensing*, **2020**, 12, 1181	5	3
47	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. *Hydrology and Earth System Sciences*, **2020**, 24, 1781-1803	5.5	9
46	Including Sentinel-1 radar data to improve the disaggregation of MODIS land surface temperature data. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2019**, 150, 11-26	11.8	23
45	Stepwise Disaggregation of SMAP Soil Moisture at 100 m Resolution Using Landsat-7/8 Data and a Varying Intermediate Resolution. *Remote Sensing*, **2019**, 11, 1863	5	13
44	Ressources en eau, sociétés et territoires méditerranéens. L'interdisciplinarité pour répondre aux défis du changement climatique. *Natures Sciences Societes*, **2019**, 27, 219-224	0.2	
43	Assessing the impact of global climate changes on irrigated wheat yields and water requirements in a semi-arid environment of Morocco. *Scientific Reports*, **2019**, 9, 19142	4.9	38
42	Ability of a soil-vegetation-atmosphere transfer model and a two-source energy balance model to predict evapotranspiration for several crops and climate conditions. *Hydrology and Earth System Sciences*, **2019**, 23, 5033-5058	5.5	4
41	Partitioning evapotranspiration of a drip-irrigated wheat crop: Inter-comparing eddy covariance-, sap flow-, lysimeter- and FAO-based methods. *Agricultural and Forest Meteorology*, **2019**, 265, 310-326	5.8	39
40	A phenomenological model of soil evaporative efficiency using surface soil moisture and temperature data. *Agricultural and Forest Meteorology*, **2018**, 256-257, 501-515	5.8	20
39	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. *Remote Sensing of Environment*, **2018**, 211, 321-337	13.2	78
38	Calibrating an evapotranspiration model using radiometric surface temperature, vegetation cover fraction and near-surface soil moisture data. *Agricultural and Forest Meteorology*, **2018**, 256-257, 104-115	5.8	29
37	Estimating the water budget components of irrigated crops: Combining the FAO-56 dual crop coefficient with surface temperature and vegetation index data. *Agricultural Water Management*, **2018**, 208, 120-131	5.9	19
36	Evaluation and analysis of deep percolation losses of drip irrigated citrus crops under non-saline and saline conditions in a semi-arid area. *Biosystems Engineering*, **2018**, 165, 10-24	4.8	15
35	Toward a Surface Soil Moisture Product at High Spatiotemporal Resolution: Temporally Interpolated, Spatially Disaggregated SMOS Data. *Journal of Hydrometeorology*, **2018**, 19, 183-200	3.7	19
34	Numerical and experimental study of free convection through a horizontal open-ended axisymmetric cavity. *Heat Transfer - Asian Research*, **2018**, 47, 437-457	2.8	1

33	Sequential Downscaling of the SMOS Soil Moisture at 100 M Resolution Via a Variable Intermediate Spatial Resolution **2018**,		2
32	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). *Remote Sensing*, **2018**, 10, 974	5	7
31	A simple and alternative approach based on reference evapotranspiration and leaf area index for estimating tree transpiration in semi-arid regions. *Agricultural Water Management*, **2017**, 188, 61-68	5.9	13
30	Modified Penman–Monteith equation for monitoring evapotranspiration of wheat crop: Relationship between the surface resistance and remotely sensed stress index. *Biosystems Engineering*, **2017**, 164, 68-84	4.8	23
29	Performance of the two-source energy budget (TSEB) model for the monitoring of evapotranspiration over irrigated annual crops in North Africa. *Agricultural Water Management*, **2017**, 193, 71-88	5.9	31
28	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. *Remote Sensing*, **2017**, 9, 1155	5	14
27	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. *Agricultural Water Management*, **2016**, 163, 219-235	5.9	80
26	Modeling soil evaporation efficiency in a range of soil and atmospheric conditions using a meta-analysis approach. *Water Resources Research*, **2016**, 52, 3663-3684	5.4	39
25	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. *Agricultural Water Management*, **2016**, 177, 181-192	5.9	44
24	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. *Hydrology and Earth System Sciences*, **2015**, 19, 4653-4672	5.5	36
23	Performance Metrics for Soil Moisture Downscaling Methods: Application to DISPATCH Data in Central Morocco. *Remote Sensing*, **2015**, 7, 3783-3807	5	55
22	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. *Remote Sensing*, **2015**, 7, 10444-10479	5	23
21	Using an unsupervised approach of Probabilistic Neural Network (PNN) for land use classification from multitemporal satellite images. *Applied Soft Computing Journal*, **2015**, 30, 1-13	7.5	35
20	Irrigation scheduling of a classical gravity network based on the Covariance Matrix Adaptation – Evolutionary Strategy algorithm. *Computers and Electronics in Agriculture*, **2014**, 102, 64-72	6.5	23
19	Intercomparison of four remote-sensing-based energy balance methods to retrieve surface evapotranspiration and water stress of irrigated fields in semi-arid climate. *Hydrology and Earth System Sciences*, **2014**, 18, 1165-1188	5.5	69
18	A Life-Size and Near Real-Time Test of Irrigation Scheduling with a Sentinel-2 Like Time Series (SPOT4-Take5) in Morocco. *Remote Sensing*, **2014**, 6, 11182-11203	5	24
17	A new irrigation priority index based on remote sensing data for assessing the networks irrigation scheduling. *Agricultural Water Management*, **2013**, 119, 1-9	5.9	34
16	Determination of crop evapotranspiration of table grapes in a semi-arid region of Northwest Mexico using multi-spectral vegetation index. *Agricultural Water Management*, **2013**, 122, 12-19	5.9	39

15	Assessment of Equity and Adequacy of Water Delivery in Irrigation Systems Using Remote Sensing-Based Indicators in Semi-Arid Region, Morocco. *Water Resources Management*, **2013**, 27, 4697-4714	2.7	30
14	Disinfection of Treated Wastewater and its Reuse in the Irrigation of Golf Grass: The Case of Plant M'Zar Agadir-Morocco. *Water (Switzerland)*, **2011**, 3, 1128-1138	3	5
13	Water use efficiency and yield of winter wheat under different irrigation regimes in a semi-arid region. *Agricultural Sciences*, **2011**, 02, 273-282	0.4	18
12	Combining Satellite Remote Sensing Data with the FAO-56 Dual Approach for Water Use Mapping In Irrigated Wheat Fields of a Semi-Arid Region. *Remote Sensing*, **2010**, 2, 375-387	5	56
11	Assessment of reference evapotranspiration methods in semi-arid regions: Can weather forecast data be used as alternate of ground meteorological parameters?. *Journal of Arid Environments*, **2010**, 74, 1587-1596	2.5	62
10	Using the dual approach of FAO-56 for partitioning ET into soil and plant components for olive orchards in a semi-arid region. *Agricultural Water Management*, **2010**, 97, 1769-1778	5.9	87
9	Citrus orchard evapotranspiration: Comparison between eddy covariance measurements and the FAO-56 approach estimates. *Plant Biosystems*, **2009**, 143, 201-208	1.6	32
8	Combining a large aperture scintillometer and estimates of available energy to derive evapotranspiration over several agricultural fields in a semi-arid region. *Plant Biosystems*, **2009**, 143, 209-221	1.6	26
7	Evaluation of Digital Hemispherical Photography and Plant Canopy Analyzer for Measuring Vegetation Area Index of Orange Orchards. *Journal of Agronomy*, **2009**, 8, 67-72	0.4	14
6	Improvement of FAO-56 method for olive orchards through sequential assimilation of thermal infrared-based estimates of ET. *Agricultural Water Management*, **2008**, 95, 309-321	5.9	61
5	Combining FAO-56 model and ground-based remote sensing to estimate water consumptions of wheat crops in a semi-arid region. *Agricultural Water Management*, **2007**, 87, 41-54	5.9	186
4	The use of the scintillation technique for monitoring seasonal water consumption of olive orchards in a semi-arid region. *Agricultural Water Management*, **2007**, 89, 173-184	5.9	59
3	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. *Agricultural Water Management*, **2006**, 79, 1-27	5.9	284
2	Evapotranspiration components determined by stable isotope, sap flow and eddy covariance techniques. *Agricultural and Forest Meteorology*, **2004**, 125, 241-258	5.8	352
1	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