

Saïd Khabba

List of Publications by Year in descending order

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59
papers

2,099
citations

236612

25
h-index

243296

44
g-index

59
all docs

59
docs citations

59
times ranked

1966
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.4	348
2	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.	4.6	118
3	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.	1.3	109
4	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.	2.4	109
5	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.	1.2	96
6	Performance Metrics for Soil Moisture Downscaling Methods: Application to DISPATCH Data in Central Morocco. <i>Remote Sensing</i> , 2015, 7, 3783-3807.	1.8	69
7	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.	1.8	69
8	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.	1.6	67
9	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.	2.4	65
10	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.	4.6	64
11	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.	1.9	59
12	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.	1.7	56
13	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.	4.6	52
14	Citrus orchard evapotranspiration: Comparison between eddy covariance measurements and the FAO-56 approach estimates. <i>Plant Biosystems</i> , 2009, 143, 201-208.	0.8	46
15	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.	1.9	45
16	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.	1.9	42
17	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.	2.4	39
18	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.	1.8	39

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19	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.	2.4	37
20	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.	2.4	36
21	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.	0.8	35
22	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.	1.9	35
23	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.	3.7	29
24	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.	1.8	28
25	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.	1.8	27
26	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.	1.8	27
27	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.	1.9	24
28	Linkages between common wheat yields and climate in Morocco (1982-2008). <i>International Journal of Biometeorology</i> , 2014, 58, 1489-502.	1.3	23
29	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.	0.7	22
30	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.	1.9	22
31	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.	1.9	21
32	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.	1.8	21
33	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.	1.8	17
34	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.	1.3	16
35	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.	2.4	16
36	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.	1.9	16

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37	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	15
38	Maize ear temperature. <i>European Journal of Agronomy</i> , 2001, 14, 197-208.	1.9	14
39	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.	1.8	12
40	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.	1.8	10
41	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.	1.8	10
42	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.	1.9	10
43	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.	0.8	10
44	Integrating thermal stress indexes within Shuttleworthâ€Wallace model for evapotranspiration mapping over a complex surface. <i>Irrigation Science</i> , 2021, 39, 45-61.	1.3	8
45	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.	3.7	8
46	A Systematic National Stocktake of Crop Models in Morocco. <i>Ecological Modelling</i> , 2022, 470, 110036.	1.2	8
47	Development and validation of model of heat diffusion in maize ear. <i>Agricultural and Forest Meteorology</i> , 1999, 97, 113-127.	1.9	7
48	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.	1.8	7
49	Evaluation of Groundwater Quality and Agricultural use Under a Semiâ€arid Environment: Case of Agafay, Western Haouz, Morocco. <i>Irrigation and Drainage</i> , 2019, 68, 778-796.	0.8	7
50	Snow hydrology in the Moroccan Atlas Mountains. <i>Journal of Hydrology: Regional Studies</i> , 2022, 42, 101101.	1.0	7
51	Multi-Scale Evaluation of the TSEB Model over a Complex Agricultural Landscape in Morocco. <i>Remote Sensing</i> , 2020, 12, 1181.	1.8	6
52	An Agent based Modeling for the Gravity Irrigation Management. <i>Procedia Environmental Sciences</i> , 2013, 19, 804-813.	1.3	5
53	A Simple Light-Use-Efficiency Model to Estimate Wheat Yield in the Semi-Arid Areas. <i>Agronomy</i> , 2020, 10, 1524.	1.3	5
54	Development and validation of model for estimating temperature within maize ear. <i>Agricultural and Forest Meteorology</i> , 2001, 106, 131-146.	1.9	2

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55	Assessment of Soil Quality for a Semi-Arid Irrigated Under Citrus Orchard : Case of the Haouz Plain, Morocco. European Scientific Journal, 2017, 13, 367.	0.0	2
56	Including Radar Soil Moisture into Two-Source Energy Balance Model for Improving Turbulent Fluxes Estimates. , 2021, , .		1
57	Towards Smart Big Weather Data Management. , 0, , .		1
58	Observation spatiale Å haute resolution spatiale et temporelle : applications pour le suivi de la ressource hydrique en milieu agricole semi-aride. Houille Blanche, 2010, 96, 45-52.	0.3	0
59	Evaporation-based disaggregation of surface soil moisture data: The dispatch method, the CATDS product and on-going research. , 2017, , .		0