

# Abdelghani Boudhar

## List of Publications by Year in descending order

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49  
papers

1,227  
citations

430442

18  
h-index

395343

33  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1001  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of TRMM 3B42 V7 Rainfall Product over the Oum Er Rbia Watershed in Morocco. <i>Climate</i> , 2017, 5, 1.	1.2	112
2	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
3	Evaluation of the Snowmelt Runoff Model in the Moroccan High Atlas Mountains using two snow-cover estimates. <i>Hydrological Sciences Journal</i> , 2009, 54, 1094-1113.	1.2	98
4	Assessment of daily MODIS snow cover products to monitor snow cover dynamics over the Moroccan Atlas mountain range. <i>Remote Sensing of Environment</i> , 2015, 160, 72-86.	4.6	95
5	Remote Sensing of Water Resources in Semi-Arid Mediterranean Areas: the joint international laboratory TREMA. <i>International Journal of Remote Sensing</i> , 2015, 36, 4879-4917.	1.3	74
6	Different sensitivities of snowpacks to warming in Mediterranean climate mountain areas. <i>Environmental Research Letters</i> , 2017, 12, 074006.	2.2	73
7	Trend analysis of rainfall and drought over the Oum Er-Rbia River Basin in Morocco during 1970-2010. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	67
8	The Performance of Random Forest Classification Based on Phenological Metrics Derived from Sentinel-2 and Landsat 8 to Map Crop Cover in an Irrigated Semi-arid Region. <i>Remote Sensing in Earth Systems Sciences</i> , 2019, 2, 208-224.	1.1	50
9	Long-term analysis of snow-covered area in the Moroccan High-Atlas through remote sensing. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2010, 12, S109-S115.	1.4	37
10	Identifying Agricultural Systems Using SVM Classification Approach Based on Phenological Metrics in a Semi-arid Region of Morocco. <i>Earth Systems and Environment</i> , 2019, 3, 277-288.	3.0	31
11	Analysis and trends of rainfall amounts and extreme events in the Western Mediterranean region. <i>Theoretical and Applied Climatology</i> , 2020, 141, 309-320.	1.3	31
12	Multiscale drought monitoring and comparison using remote sensing in a Mediterranean arid region: a case study from west-central Morocco. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	29
13	Bridging the gap of perception is the only way to align soil protection actions. <i>Science of the Total Environment</i> , 2020, 718, 137421.	3.9	27
14	A comparative analysis of different phenological information retrieved from Sentinel-2 time series images to improve crop classification: a machine learning approach. <i>Geocarto International</i> , 2022, 37, 1426-1449.	1.7	26
15	Spatiotemporal monitoring of surface soil moisture using optical remote sensing data: a case study in a semi-arid area. <i>Journal of Spatial Science</i> , 2020, 65, 481-499.	1.0	25
16	Monitoring spatial variability and trends of wheat grain yield over the main cereal regions in Morocco: a remote-based tool for planning and adjusting policies. <i>Geocarto International</i> , 2021, 36, 2303-2322.	1.7	23
17	Spatial distribution of the air temperature in mountainous areas using satellite thermal infra-red data. <i>Comptes Rendus - Geoscience</i> , 2011, 343, 32-42.	0.4	21
18	National-Scale Cropland Mapping Based on Phenological Metrics, Environmental Covariates, and Machine Learning on Google Earth Engine. <i>Remote Sensing</i> , 2021, 13, 4378.	1.8	21

#	ARTICLE	IF	CITATIONS
19	Energy fluxes and melt rate of a seasonal snow cover in the Moroccan High Atlas. Hydrological Sciences Journal, 0, , 1-13.	1.2	18
20	Remote monitoring of agricultural systems using NDVI time series and machine learning methods: a tool for an adaptive agricultural policy. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	18
21	Performance of temperature and radiation index models for point-scale snow water equivalent (SWE) simulations in the Moroccan High Atlas Mountains. Hydrological Sciences Journal, 2018, 63, 1844-1862.	1.2	17
22	Sensitivity and Interdependency Analysis of the HBV Conceptual Model Parameters in a Semi-Arid Mountainous Watershed. Water (Switzerland), 2020, 12, 2440.	1.2	16
23	Linkages between snow cover, temperature and rainfall and the North Atlantic Oscillation over Morocco. Climate Research, 2016, 69, 229-238.	0.4	15
24	Modélisation pluie-débit et analyse du régime d'un bassin versant semi-aride sous influence nivale. Cas du bassin versant du Rheraya (Haut Atlas, Maroc). Houille Blanche, 2018, 104, 49-62.	0.3	14
25	Surface Runoff and Drought Assessment Using Global Water Resources Datasets - from Oum Er Rbia Basin to the Moroccan Country Scale. Water Resources Management, 2020, 34, 2117-2133.	1.9	14
26	Climate change impacts on surface water resources in the Oued El Abid basin, Morocco. Hydrological Sciences Journal, 2021, 66, 2132-2145.	1.2	13
27	Combining Use of TRMM and Ground Observations of Annual Precipitations for Meteorological Drought Trends Monitoring in Morocco. American Journal of Remote Sensing, 2019, 7, 25.	0.5	13
28	Mapping and Characterization of Phenological Changes over Various Farming Systems in an Arid and Semi-Arid Region Using Multitemporal Moderate Spatial Resolution Data. Remote Sensing, 2021, 13, 578.	1.8	12
29	An integrated methodology for surface soil moisture estimating using remote sensing data approach. Geocarto International, 2021, 36, 1443-1458.	1.7	10
30	Derivation of air temperature of agricultural areas of Morocco from remotely land surface temperature based on the updated Köppen-Geiger climate classification. Modeling Earth Systems and Environment, 2019, 5, 1883-1892.	1.9	10
31	Evaluating the potential of Sentinel-2 satellite images for water quality characterization of artificial reservoirs: The Bin El Ouidane Reservoir case study (Morocco). Meteorology Hydrology and Water Management, 2019, 7, .	0.4	10
32	Hydrological Response to Snow Cover Changes Using Remote Sensing over the Oum Er Rbia Upstream Basin, Morocco. Advances in Science, Technology and Innovation, 2020, , 95-102.	0.2	9
33	Deep Learning-Based Spatiotemporal Fusion Approach for Producing High-Resolution NDVI Time-Series Datasets. Canadian Journal of Remote Sensing, 2021, 47, 182-197.	1.1	9
34	Assessment of MERRA-2 and ERA5 to Model the Snow Water Equivalent in the High Atlas (1981-2019). Water (Switzerland), 2021, 13, 890.	1.2	9
35	MODIS Does Not Capture the Spatial Heterogeneity of Snow Cover Induced by Solar Radiation. Frontiers in Earth Science, 2021, 9, .	0.8	9
36	Snow Lapse Rate Changes in the Atlas Mountain in Morocco Based on MODIS Time Series during the Period 2000-2016. Remote Sensing, 2021, 13, 3370.	1.8	9

#	ARTICLE	IF	CITATIONS
37	Classification and status monitoring of agricultural crops in central Morocco: a synergistic combination of OBIA approach and fused Landsat-Sentinel-2 data. <i>Journal of Applied Remote Sensing</i> , 2021, 15, .	0.6	7
38	Sensitivity analysis of CN using SCS-CN approach, rain gauges and TRMM satellite data assessment into HEC-HMS hydrological model in the upper basin of Oum Er Rbia, Morocco. <i>Modeling Earth Systems and Environment</i> , 2022, 8, 4707-4729.	1.9	7
39	Snow hydrology in the Moroccan Atlas Mountains. <i>Journal of Hydrology: Regional Studies</i> , 2022, 42, 101101.	1.0	7
40	Comparative approach of three popular intrinsic vulnerability methods: case of the Beni Amir groundwater (Morocco). <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	6
41	Farming systems monitoring using machine learning and trend analysis methods based on fitted NDVI time series data in a semi-arid region of Morocco. , 2019, , .		5
42	Using SAR Data to Detect Wheat Irrigation Supply in an Irrigated Semi-arid Area. <i>Journal of Agricultural Science</i> , 2021, 11, 21.	0.1	5
43	When climate variability partly compensates for groundwater depletion: An analysis of the GRACE signal in Morocco. <i>Journal of Hydrology: Regional Studies</i> , 2022, 42, 101177.	1.0	5
44	Spatial assessment of losses in wheat production value: A need for an innovative approach to guide risk management policies. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 18, 100300.	0.8	4
45	Support Irrigation Water Management of Cereals Using Optical Remote Sensing and Modeling in a Semi-Arid Region. <i>Advances in Geospatial Technologies Book Series</i> , 2019, , 124-145.	0.1	3
46	A modelling approach to assess technology effect on wheat farms performance in semi-arid areas. <i>International Journal of Productivity and Quality Management</i> , 2020, 30, 561.	0.1	1
47	New simplification into NSF-WQI index to asses El Abid River water quality - Morocco. , 0, 204, 59-68.		1
48	Integrated modelling of the water cycle in semi arid watersheds based on ground and satellite data: the SudMed project. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
49	A modelling approach to assess the effect of technology on wheat farms performance in semi-arid areas. <i>International Journal of Productivity and Quality Management</i> , 2020, 1, 1.	0.1	0