

Marouane Temimi

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

2,405
citations

159573

30
h-index

254170

43
g-index

103
all docs

103
docs citations

103
times ranked

2409
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of High Impact Weather for Aviation Meteorology. Pure and Applied Geophysics, 2019, 176, 1869-1921.	1.9	162
2	Exploring the potential of optical remote sensing for oil spill detection in shallow coastal waters-a case study in the Arabian Gulf. Optics Express, 2014, 22, 13755.	3.4	86
3	Stream recession curves and storage variability in small watersheds. Hydrology and Earth System Sciences, 2011, 15, 2377-2389.	4.9	76
4	Assessment of the consistency among global precipitation products over the United Arab Emirates. Journal of Hydrology: Regional Studies, 2017, 12, 122-135.	2.4	72
5	Sensitivity of the meteorological model WRF-ARW to planetary boundary layer schemes during fog conditions in a coastal arid region. Atmospheric Research, 2017, 187, 106-127.	4.1	72
6	Multi-Criteria Evaluation of Irrigated Agriculture Suitability to Achieve Food Security in an Arid Environment. Sustainability, 2018, 10, 803.	3.2	67
7	Summertime dust storms over the Arabian Peninsula and impacts on radiation, circulation, cloud development and rain. Atmospheric Research, 2021, 250, 105364.	4.1	61
8	Flood and soil wetness monitoring over the Mackenzie River Basin using AMSR-E 37GHz brightness temperature. Journal of Hydrology, 2007, 333, 317-328.	5.4	59
9	Simulation and analysis of synoptic scale dust storms over the Arabian Peninsula. Atmospheric Research, 2018, 199, 62-81.	4.1	59
10	A combination of remote sensing data and topographic attributes for the spatial and temporal monitoring of soil wetness. Journal of Hydrology, 2010, 388, 28-40.	5.4	58
11	Modeling of circulation in the Arabian Gulf and the Sea of Oman: Skill assessment and seasonal thermohaline structure. Journal of Geophysical Research: Oceans, 2016, 121, 1700-1720.	2.6	56
12	Using microwave brightness temperature diurnal cycle to improve emissivity retrievals over land. Remote Sensing of Environment, 2012, 123, 470-482.	11.0	55
13	HABNet: Machine Learning, Remote Sensing-Based Detection of Harmful Algal Blooms. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3229-3239.	4.9	54
14	Consistency of precipitation products over the Arabian Peninsula and interactions with soil moisture and water storage. Hydrological Sciences Journal, 2018, 63, 408-425.	2.6	51
15	Analysis of a severe dust storm and its impact on air quality conditions using WRF-Chem modeling, satellite imagery, and ground observations. Air Quality, Atmosphere and Health, 2019, 12, 453-470.	3.3	50
16	Characterization of harmful algal blooms (HABs) in the Arabian Gulf and the Sea of Oman using MERIS fluorescence data. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 101, 125-136.	11.1	49
17	Analysis of an extreme weather event in a hyper-arid region using WRF-Hydro coupling, station, and satellite data. Natural Hazards and Earth System Sciences, 2019, 19, 1129-1149.	3.6	44
18	Enhancing Precipitation Estimates Through the Fusion of Weather Radar, Satellite Retrievals, and Surface Parameters. Remote Sensing, 2020, 12, 1342.	4.0	43

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19	An automated algorithm for river ice monitoring over the Susquehanna River using the MODIS data. <i>Hydrological Processes</i> , 2014, 28, 62-73.	2.6	42
20	The sensitivity of land emissivity estimates from AMSR-E at C and X bands to surface properties. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 3577-3589.	4.9	41
21	Analysis of the Long-Term Variability of Poor Visibility Events in the UAE and the Link with Climate Dynamics. <i>Atmosphere</i> , 2017, 8, 242.	2.3	39
22	On the crucial role of atmospheric rivers in the two major Weddell Polynya events in 1973 and 2017 in Antarctica. <i>Science Advances</i> , 2020, 6, .	10.3	39
23	Non-parametric Methods for Soil Moisture Retrieval from Satellite Remote Sensing Data. <i>Remote Sensing</i> , 2009, 1, 3-21.	4.0	38
24	Micrometeorological measurements in an arid environment: Diurnal characteristics and surface energy balance closure. <i>Atmospheric Research</i> , 2020, 234, 104745.	4.1	38
25	A multi-temporal analysis of AMSR-E data for flood and discharge monitoring during the 2008 flood in Iowa. <i>Hydrological Processes</i> , 2011, 25, 2623-2634.	2.6	37
26	The Atmospheric Drivers of the Major Saharan Dust Storm in June 2020. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090102.	4.0	37
27	Flood monitoring over the Mackenzie River Basin using passive microwave data. <i>Remote Sensing of Environment</i> , 2005, 98, 344-355.	11.0	36
28	Satellite-Based Tracking of Oil Pollution in the Arabian Gulf and the Sea of Oman. <i>Canadian Journal of Remote Sensing</i> , 2015, 41, 113-125.	2.4	35
29	A synergetic use of satellite imagery from SAR and optical sensors to improve coastal flood mapping in the Gulf of Mexico. <i>Hydrological Processes</i> , 2012, 26, 1617-1628.	2.6	34
30	Effect of Land Cover Heterogeneity on Soil Moisture Retrieval Using Active Microwave Remote Sensing Data. <i>Remote Sensing</i> , 2009, 1, 80-91.	4.0	33
31	Assessment of the consistency among global microwave land surface emissivity products. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1197-1205.	3.1	33
32	Assessment of the Sensitivity to the Thermal Roughness Length in Noah and Noah-MP Land Surface Model Using WRF in an Arid Region. <i>Pure and Applied Geophysics</i> , 2019, 176, 2121-2137.	1.9	32
33	Vulnerability of population and transportation infrastructure at the east bank of Delaware Bay due to coastal flooding in sea-level rise conditions. <i>Natural Hazards</i> , 2013, 69, 141-163.	3.4	31
34	Impact of Roughness Length on WRF Simulated Land-Atmosphere Interactions Over a Hyper-Arid Region. <i>Earth and Space Science</i> , 2020, 7, e2020EA001165.	2.6	31
35	Remotely sensed sea surface salinity in the hyper-saline Arabian Gulf: Application to landsat 8 OLI data. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 187, 168-177.	2.1	29
36	Inferring land surface parameters from the diurnal variability of microwave and infrared temperatures. <i>Physics and Chemistry of the Earth</i> , 2015, 83-84, 28-35.	2.9	28

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37	A Remote Sensing-Based Assessment of Water Resources in the Arabian Peninsula. <i>Remote Sensing</i> , 2021, 13, 247.	4.0	28
38	Evaluation and Inter-Comparison of Satellite Soil Moisture Products Using In Situ Observations over Texas, U.S.. <i>Water (Switzerland)</i> , 2017, 9, 372.	2.7	27
39	On the analysis of ground-based microwave radiometer data during fog conditions. <i>Atmospheric Research</i> , 2020, 231, 104652.	4.1	26
40	Total cloud cover climatology over the United Arab Emirates. <i>Atmospheric Science Letters</i> , 2019, 20, e883.	1.9	24
41	A MODIS-Based Robust Satellite Technique (RST) for Timely Detection of Oil Spilled Areas. <i>Remote Sensing</i> , 2017, 9, 128.	4.0	23
42	Validation and statistical analysis of the Group for High Resolution Sea Surface Temperature data in the Arabian Gulf. <i>Oceanologia</i> , 2021, 63, 497-515.	2.2	23
43	In-situ and Remote Soil Moisture Sensing Technologies for Vadose Zone Hydrology. <i>Vadose Zone Journal</i> , 2013, 12, 1-3.	2.2	22
44	Atmospheric extremes caused high oceanward sea surface slope triggering the biggest calving event in more than 50 years at the Amery Ice Shelf. <i>Cryosphere</i> , 2021, 15, 2147-2165.	3.9	22
45	Analysis of the spatio-temporal variability of seawater quality in the southeastern Arabian Gulf. <i>Marine Pollution Bulletin</i> , 2016, 106, 127-138.	5.0	21
46	Cloud Cover over the Arabian Peninsula from Global Remote Sensing and Reanalysis Products. <i>Atmospheric Research</i> , 2020, 238, 104866.	4.1	21
47	On the analysis of a summertime convective event in a hyperarid environment. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 501-525.	2.7	21
48	On the Analysis of the Performance of WRF and NICAM in a Hyperarid Environment. <i>Weather and Forecasting</i> , 2020, 35, 891-919.	1.4	20
49	Adjustment to the curve number (NRCS-CN) to account for the vegetation effect on hydrological processes. <i>Hydrological Sciences Journal</i> , 2015, 60, 591-605.	2.6	19
50	Assessing the Impact of Changes in Land Surface Conditions on WRF Predictions in Arid Regions. <i>Journal of Hydrometeorology</i> , 2020, 21, 2829-2853.	1.9	19
51	Soil Moisture Retrieval Using Ground-Based L-Band Passive Microwave Observations in Northeastern USA. <i>Vadose Zone Journal</i> , 2014, 13, 1-10.	2.2	18
52	Characteristics of Atmospheric Aerosols Over the UAE Inferred From CALIPSO and Sun Photometer Aerosol Optical Depth. <i>Earth and Space Science</i> , 2021, 8, e2020EA001360.	2.6	18
53	A Multi-Satellite Approach for Water Storage Monitoring in an Arid Watershed. <i>Geosciences (Switzerland)</i> , 2016, 6, 33.	2.2	17
54	Monitoring HABs in the shallow Arabian Gulf using a qualitative satellite-based index. <i>International Journal of Remote Sensing</i> , 2016, 37, 1937-1954.	2.9	16

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55	Assessing Bias Correction Methods in Support of Operational Weather Forecast in Arid Environment. Asia-Pacific Journal of Atmospheric Sciences, 2020, 56, 333-347.	2.3	15
56	Sea-ice monitoring over the Caspian Sea using geostationary satellite data. International Journal of Remote Sensing, 2011, 32, 1575-1593.	2.9	14
57	Analysis of aerosol-cloud interactions and their implications for precipitation formation using aircraft observations over the United Arab Emirates. Atmospheric Chemistry and Physics, 2021, 21, 12543-12560.	4.9	14
58	A Fog Climatology at Abu Dhabi International Airport. Journal of Applied Meteorology and Climatology, 2021, 60, 223-236.	1.5	13
59	Inferring soil moisture variability in the Mediterranean Sea area using infrared and passive microwave observations. Canadian Journal of Remote Sensing, 2012, 38, 46-59.	2.4	12
60	Application of a Nighttime Fog Detection Method Using SEVIRI Over an Arid Environment. Remote Sensing, 2020, 12, 2281.	4.0	11
61	On the Investigation of the Typology of Fog Events in an Arid Environment and the Link with Climate Patterns. Monthly Weather Review, 2020, 148, 3181-3202.	1.4	11
62	On the Analysis of the Low-Level Double Temperature Inversion Over the United Arab Emirates: A Case Study During April 2019. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 346-350.	3.1	11
63	Seasonal and diurnal performance of daily forecasts with WRF V3.8.1 over the United Arab Emirates. Geoscientific Model Development, 2021, 14, 1615-1637.	3.6	11
64	The First Characterization of Fog Microphysics in the United Arab Emirates, an Arid Region on the Arabian Peninsula. Earth and Space Science, 2022, 9, .	2.6	10
65	Forward Simulation of Multi-Frequency Microwave Brightness Temperature over Desert Soils in Kuwait and Comparison with Satellite Observations. Remote Sensing, 2019, 11, 1647.	4.0	9
66	Deploying temporary networks for upscaling of sparse network stations. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 433-444.	2.8	8
67	A rule-based method for diagnosing radiation fog in an arid region from NWP forecasts. Journal of Hydrology, 2021, 597, 126189.	5.4	8
68	Assessing the Spatiotemporal Variability of SMAP Soil Moisture Accuracy in a Deciduous Forest Region. Remote Sensing, 2022, 14, 3329.	4.0	8
69	Multi-Stage Inversion Method to Retrieve Soil Moisture from Passive Microwave Measurements over the Mackenzie River Basin. Vadose Zone Journal, 2013, 12, 1-12.	2.2	6
70	Remote Sensing Applications for Monitoring Water Resources in the UAE Using Lake Zakher as a Water Storage Gauge. , 2016, , 145-157.		5
71	On the use of machine learning to account for reservoir management rules and predict streamflow. Neural Computing and Applications, 2022, 34, 18917-18931.	5.6	5
72	Anatomy of the Annular Solar Eclipse of 26 December 2019 and Its Impact on Land-atmosphere Interactions Over an Arid Region. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1312-1316.	3.1	4

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73	Performance of Multi-Radar Multi-Sensor (MRMS) product in monitoring precipitation under extreme events in Harris County, Texas. <i>Journal of Hydrology</i> , 2021, 598, 126385.	5.4	4
74	On the Use of Satellite Passive Microwave Data for Estimating Surface Soil Wetness in the Mackenzie River Basin. , 2008, , 59-79.		4
75	Dynamic estimation of free water surface coverage from a basin wetness index of the Mackenzie River basin using SSM/I measurements. <i>Canadian Journal of Remote Sensing</i> , 2007, 33, 121-129.	2.4	3
76	Assessing the Performance of a Northern Gulf of Mexico Tidal Model Using Satellite Imagery. <i>Remote Sensing</i> , 2013, 5, 5662-5679.	4.0	3
77	Flood and discharge monitoring during the 2008 Iowa flood using AMSR-E data. , 2009, , .		2
78	A global passive microwave based wetness index for the monitoring of soil moisture and inundation. , 2012, , .		2
79	Monitoring surface dryness using geostationary thermal observations. <i>Remote Sensing Letters</i> , 2014, 5, 10-18.	1.4	2
80	Multi-sensor based approach for detection of oil pollution in the Arabian Gulf and the Sea of Oman. , 2015, , .		2
81	An empirical algorithm for retrieving salinity in the Arabian Gulf: Application to Landsat-8 data. , 2016, , .		2
82	Analysis of bloom conditions in fall 2013 in the Strait of Hormuz using satellite observations and model simulations. <i>Marine Pollution Bulletin</i> , 2017, 115, 315-323.	5.0	2
83	Validation of NASA SMAP Satellite Soil Moisture Products over the Desert of Kuwait. <i>Remote Sensing</i> , 2022, 14, 3328.	4.0	2
84	An automated approach for sea ice mapping and ice concentration determination for the future GOES-R Advanced Baseline Imager (ABI). , 2008, , .		1
85	Application of the Apparent Thermal Inertia Concept for Soil Moisture Estimation in Agricultural Areas. <i>Remote Sensing and Digital Image Processing</i> , 2013, , 331-346.	0.7	1
86	Detection of oil pollution in the arabian gulf using optical remote sensing imagery. , 2014, , .		1
87	An automated multi-satellite approach for soil moisture mapping using visible/infrared, passive microwave data and topographic attributes. , 2008, , .		0
88	Developing a neural-network-based “BRDF” tool for the UAE coastal and inland zones. , 2009, , .		0
89	Global microwave land surface emissivity retrieval at the AMSR-E microwave frequencies. , 2010, , .		0
90	Development of global land surface emissivity product at AMSR-E passive microwave frequencies. , 2010, , .		0

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91	A synergetic use of active microwave observations, optical images and topography data for improved flood mapping in the Gulf of Mexico. , 2011, , .		0
92	On the Synergistic Use of Microwave and Infrared Satellite Observations to Monitor Soil Moisture and Flooding. , 2013, , 345-362.		0
93	Remote sensing of red tide in the Arabian Gulf. , 2014, , .		0
94	Consistency analysis among microwave land surface emissivity products to improve GPROF precipitation estimations. , 2015, , .		0
95	Remote sensing of particulate matter concentrations over the United Arab Emirates (UAE). , 2016, , .		0
96	Evaluation of the Performance of the WRF Model in a Hyper-Arid Environment: A Sensitivity Study. Atmosphere, 2022, 13, 985.	2.3	0