

Fatima Karbou

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,292
citations

394286

19
h-index

360920

35
g-index

45
all docs

45
docs citations

45
times ranked

1699
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Color Detection-Based Method Applied to Sentinel-1 SAR Images for Snow Avalanche Debris Monitoring. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	10
2	Monitoring Wet Snow Over an Alpine Region Using Sentinel-1 Observations. Remote Sensing, 2021, 13, 381.	1.8	23
3	A 1D-Var Approach to Retrieve Clear-Sky Wet Tropospheric Correction from Current and Future Altimetry Missions. Journal of Atmospheric and Oceanic Technology, 2019, 36, 473-489.	0.5	2
4	Evaluation of Sub-Kilometric Numerical Simulations of C-Band Radar Backscatter over the French Alps against Sentinel-1 Observations. Remote Sensing, 2019, 11, 8.	1.8	7
5	Combined use of volume radar observations and high-resolution numerical weather predictions to estimate precipitation at the ground: methodology and proof of concept. Atmospheric Measurement Techniques, 2019, 12, 5669-5684.	1.2	6
6	OZCAR: The French Network of Critical Zone Observatories. Vadose Zone Journal, 2018, 17, 1-24.	1.3	126
7	Modeling Sea Ice Surface Emissivity at Microwave Frequencies: Impact of the Surface Assumptions and Potential Use for Sea Ice Extent and Type Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 943-961.	2.7	5
8	Precipitation Analysis over the French Alps Using a Variational Approach and Study of Potential Added Value of Ground-Based Radar Observations. Journal of Hydrometeorology, 2017, 18, 1425-1451.	0.7	5
9	Surface Emissivity at Microwaves to Millimeter Waves over Polar Regions: Parameterization and Evaluation with Aircraft Experiments. Journal of Atmospheric and Oceanic Technology, 2017, 34, 1039-1059.	0.5	29
10	Snowpack modelling in the Pyrenees driven by kilometric-resolution meteorological forecasts. Cryosphere, 2016, 10, 1571-1589.	1.5	48
11	GNSS reflectometry measurement of snow depth and soil moisture in the French Alps. , 2015, , .		0
12	Daily Rainfall Detection and Estimation over Land Using Microwave Surface Emissivities. Journal of Applied Meteorology and Climatology, 2015, 54, 880-895.	0.6	8
13	The Assimilation of Observations from the Advanced Microwave Sounding Unit over Sea Ice in the French Global Numerical Weather Prediction System. Monthly Weather Review, 2014, 142, 125-140.	0.5	22
14	High-resolution prediction of a major convective period over West Africa. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1409-1425.	1.0	21
15	An Evaluation of Microwave Land Surface Emissivities Over the Continental United States to Benefit GPM-Era Precipitation Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 378-398.	2.7	95
16	Driftsondes: Providing In Situ Long-Duration Dropsonde Observations over Remote Regions. Bulletin of the American Meteorological Society, 2013, 94, 1661-1674.	1.7	20
17	Simulation of Northern Eurasian Local Snow Depth, Mass, and Density Using a Detailed Snowpack Model and Meteorological Reanalyses. Journal of Hydrometeorology, 2013, 14, 203-219.	0.7	114
18	Driftsonde Observations to Evaluate Numerical Weather Prediction of the Late 2006 African Monsoon. Journal of Applied Meteorology and Climatology, 2013, 52, 974-995.	0.6	4

#	ARTICLE	IF	CITATIONS
19	Monitoring the West African heat low at seasonal and intra-seasonal timescales using AMSU sounder. Atmospheric Science Letters, 2013, 14, 263-271.	0.8	8
20	Land surface temperature estimation to improve the assimilation of SEVIRI radiances over land. Journal of Geophysical Research, 2011, 116, .	3.3	19
21	Sensitivity of Passive Microwave Observations to Soil Moisture and Vegetation Water Content: L-Band to W-Band. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1190-1199.	2.7	98
22	Potential Use of Surface-Sensitive Microwave Observations Over Land in Numerical Weather Prediction. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1251-1262.	2.7	4
23	Foreword to the Special Issue on Remote Sensing and Modeling of Surface Properties. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1175-1176.	2.7	0
24	Operational meteorology in West Africa: observational networks, weather analysis and forecasting. Atmospheric Science Letters, 2011, 12, 135-141.	0.8	25
25	Global 4DVAR Assimilation and Forecast Experiments Using AMSU Observations over Land. Part I: Impacts of Various Land Surface Emissivity Parameterizations. Weather and Forecasting, 2010, 25, 5-19.	0.5	38
26	The Concordiasi Project in Antarctica. Bulletin of the American Meteorological Society, 2010, 91, 69-86.	1.7	78
27	Global 4DVAR Assimilation and Forecast Experiments Using AMSU Observations over Land. Part II: Impacts of Assimilating Surface-Sensitive Channels on the African Monsoon during AMMA. Weather and Forecasting, 2010, 25, 20-36.	0.5	47
28	Enhancements of Satellite Data Assimilation over Antarctica. Monthly Weather Review, 2010, 138, 2149-2173.	0.5	23
29	On the use of Advanced Microwave Sounding Unit and β measurements for studying the monsoon variability over West Africa. Journal of Geophysical Research, 2010, 115, .	3.3	7
30	Toward a Better Modeling of Surface Emissivity to Improve AMSU Data Assimilation Over Antarctica. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1976-1985.	2.7	28
31	The Impacts of AMMA Radiosonde Data on the French Global Assimilation and Forecast System. Weather and Forecasting, 2009, 24, 1268-1286.	0.5	31
32	Microwave land emissivity and skin temperature for AMSU-A and -B assimilation over land. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 2333-2355.	1.0	77
33	AMSU-A Land Surface Emissivity Estimation for Numerical Weather Prediction Assimilation Schemes. Journal of Applied Meteorology and Climatology, 2005, 44, 416-426.	1.7	45
34	Microwave land emissivity calculations using AMSU measurements. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 948-959.	2.7	108
35	Long-term stability of ERS-2 and TOPEX microwave radiometer in-flight calibration. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 1144-1158.	2.7	16
36	Two microwave land emissivity parameterizations suitable for AMSU observations. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 1788-1795.	2.7	17

#	ARTICLE	IF	CITATIONS
37	Calculation of Microwave Land Surface Emissivity From Satellite Observations: Validity of the Specular Approximation Over Snow-Free Surfaces?. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 311-314.	1.4	19
38	Potential of Advanced Microwave Sounding Unit-A (AMSU-A) and AMSU-B measurements for atmospheric temperature and humidity profiling over land. Journal of Geophysical Research, 2005, 110, .	3.3	52
39	Comparison of ERS2 and TOPEX microwave radiometer absolute calibrations at high brightness temperatures. , 0, , .		1
40	On the Use of Microwave Radiometry for atmosphere humidity monitoring : Recent Results and Open Issues. , 0, , .		0