

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	OZCAR: The French Network of Critical Zone Observatories. <i>Vadose Zone Journal</i> , 2018, 17, 1-24.	1.3	126
2	Simulation of Northern Eurasian Local Snow Depth, Mass, and Density Using a Detailed Snowpack Model and Meteorological Reanalyses. <i>Journal of Hydrometeorology</i> , 2013, 14, 203-219.	0.7	114
3	Microwave land emissivity calculations using AMSU measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 948-959.	2.7	108
4	Sensitivity of Passive Microwave Observations to Soil Moisture and Vegetation Water Content: L-Band to W-Band. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 1190-1199.	2.7	98
5	An Evaluation of Microwave Land Surface Emissivities Over the Continental United States to Benefit GPM-Era Precipitation Algorithms. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 378-398.	2.7	95
6	The Concordiasi Project in Antarctica. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 69-86.	1.7	78
7	Microwave land emissivity and skin temperature for AMSU-A and -B assimilation over land. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 2333-2355.	1.0	77
8	Potential of Advanced Microwave Sounding Unit-A (AMSU-A) and AMSU-B measurements for atmospheric temperature and humidity profiling over land. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	52
9	Snowpack modelling in the Pyrenees driven by kilometric-resolution meteorological forecasts. <i>Cryosphere</i> , 2016, 10, 1571-1589.	1.5	48
10	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. <i>Weather and Forecasting</i> , 2010, 25, 20-36.	0.5	47
11	AMSU-A Land Surface Emissivity Estimation for Numerical Weather Prediction Assimilation Schemes. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 416-426.	1.7	45
12	Global 4DVAR Assimilation and Forecast Experiments Using AMSU Observations over Land. Part I: Impacts of Various Land Surface Emissivity Parameterizations. <i>Weather and Forecasting</i> , 2010, 25, 5-19.	0.5	38
13	The Impacts of AMMA Radiosonde Data on the French Global Assimilation and Forecast System. <i>Weather and Forecasting</i> , 2009, 24, 1268-1286.	0.5	31
14	Surface Emissivity at Microwaves to Millimeter Waves over Polar Regions: Parameterization and Evaluation with Aircraft Experiments. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 1039-1059.	0.5	29
15	Toward a Better Modeling of Surface Emissivity to Improve AMSU Data Assimilation Over Antarctica. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 1976-1985.	2.7	28
16	Operational meteorology in West Africa: observational networks, weather analysis and forecasting. <i>Atmospheric Science Letters</i> , 2011, 12, 135-141.	0.8	25
17	Enhancements of Satellite Data Assimilation over Antarctica. <i>Monthly Weather Review</i> , 2010, 138, 2149-2173.	0.5	23
18	Monitoring Wet Snow Over an Alpine Region Using Sentinel-1 Observations. <i>Remote Sensing</i> , 2021, 13, 381.	1.8	23

#	ARTICLE	IF	CITATIONS
19	The Assimilation of Observations from the Advanced Microwave Sounding Unit over Sea Ice in the French Global Numerical Weather Prediction System. <i>Monthly Weather Review</i> , 2014, 142, 125-140.	0.5	22
20	High-resolution prediction of a major convective period over West Africa. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 1409-1425.	1.0	21
21	Driftsondes: Providing In Situ Long-Duration Dropsonde Observations over Remote Regions. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1661-1674.	1.7	20
22	Calculation of Microwave Land Surface Emissivity From Satellite Observations: Validity of the Specular Approximation Over Snow-Free Surfaces?. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2005, 2, 311-314.	1.4	19
23	Land surface temperature estimation to improve the assimilation of SEVIRI radiances over land. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	19
24	Two microwave land emissivity parameterizations suitable for AMSU observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 1788-1795.	2.7	17
25	Long-term stability of ERS-2 and TOPEX microwave radiometer in-flight calibration. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 1144-1158.	2.7	16
26	Automatic Color Detection-Based Method Applied to Sentinel-1 SAR Images for Snow Avalanche Debris Monitoring. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.	2.7	10
27	Monitoring the West African heat low at seasonal and intra-seasonal timescales using AMSU sounder. <i>Atmospheric Science Letters</i> , 2013, 14, 263-271.	0.8	8
28	Daily Rainfall Detection and Estimation over Land Using Microwave Surface Emissivities. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 880-895.	0.6	8
29	On the use of Advanced Microwave Sounding Unit A and B measurements for studying the monsoon variability over West Africa. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	7
30	Evaluation of Sub-Kilometric Numerical Simulations of C-Band Radar Backscatter over the French Alps against Sentinel-1 Observations. <i>Remote Sensing</i> , 2019, 11, 8.	1.8	7
31	Combined use of volume radar observations and high-resolution numerical weather predictions to estimate precipitation at the ground: methodology and proof of concept. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5669-5684.	1.2	6
32	Modeling Sea Ice Surface Emissivity at Microwave Frequencies: Impact of the Surface Assumptions and Potential Use for Sea Ice Extent and Type Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 943-961.	2.7	5
33	Precipitation Analysis over the French Alps Using a Variational Approach and Study of Potential Added Value of Ground-Based Radar Observations. <i>Journal of Hydrometeorology</i> , 2017, 18, 1425-1451.	0.7	5
34	Potential Use of Surface-Sensitive Microwave Observations Over Land in Numerical Weather Prediction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 1251-1262.	2.7	4
35	Driftsonde Observations to Evaluate Numerical Weather Prediction of the Late 2006 African Monsoon. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 974-995.	0.6	4
36	A 1D-Var Approach to Retrieve Clear-Sky Wet Tropospheric Correction from Current and Future Altimetry Missions. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 473-489.	0.5	2

#	ARTICLE	IF	CITATIONS
37	Comparison of ERS2 and TOPEX microwave radiometer absolute calibrations at high brightness temperatures. , 0, , .		1
38	On the Use of Microwave Radiometry for atmosphere humidity monitoring : Recent Results and Open Issues. , 0, , .		0
39	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
40	GNSS reflectometry measurement of snow depth and soil moisture in the French Alps. , 2015, , .		0