

Nadia Fourrie

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,713
citations

430874

18
h-index

289244

40
g-index

61
all docs

61
docs citations

61
times ranked

1835
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperspectral Earth Observation from IASI: Five Years of Accomplishments. Bulletin of the American Meteorological Society, 2012, 93, 347-370.	3.3	357
2	HyMeX-SOP1: The Field Campaign Dedicated to Heavy Precipitation and Flash Flooding in the Northwestern Mediterranean. Bulletin of the American Meteorological Society, 2014, 95, 1083-1100.	3.3	262
3	The 1997 spectroscopic GEISA databank. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 62, 205-254.	2.3	237
4	Channel selection methods for Infrared Atmospheric Sounding Interferometer radiances. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 1011-1027.	2.7	124
5	Impact of IASI assimilation at global and convective scales and challenges for the assimilation of cloudy scenes. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1975-1987.	2.7	73
6	Offshore deep convection initiation and maintenance during the HyMeX IOP 16a heavy precipitation event. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 259-274.	2.7	53
7	Assimilation of AIRS Radiances Affected by Mid- to Low-Level Clouds. Monthly Weather Review, 2009, 137, 4276-4292.	1.4	50
8	A high-quality reprocessed ground-based <scp>GPS</scp> dataset for atmospheric process studies, radiosonde and model evaluation, and reanalysis of <scp>HyMeX S</scp> special Observing Period. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 56-71.	2.7	44
9	AROME-WMED, a real-time mesoscale model designed for the HyMeX special observation periods. Geoscientific Model Development, 2015, 8, 1919-1941.	3.6	37
10	Evaluation of the AIRS near-real-time channel selection for application to numerical weather prediction. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 2425-2439.	2.7	35
11	HyMeX-SOP2: The Field Campaign Dedicated to Dense Water Formation in the Northwestern Mediterranean. , 2016, 29, 196-206.		33
12	Observation of low-level wind reversals in the Gulf of Lion area and their impact on the water vapour variability. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 153-172.	2.7	30
13	Towards the use of microphysical variables for the assimilation of cloud-affected infrared radiances. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 1402-1416.	2.7	29
14	Convective initiation and maintenance processes of two back-building mesoscale convective systems leading to heavy precipitation events in Southern Italy during <scp>HyMeX IOP</scp> 13. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 2623-2635.	2.7	27
15	Characterization of air-sea exchanges over the Western Mediterranean Sea during HyMeX SOP1 using the AROME-WMED model. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 173-187.	2.7	27
16	Driftsondes: Providing In Situ Long-Duration Dropsonde Observations over Remote Regions. Bulletin of the American Meteorological Society, 2013, 94, 1661-1674.	3.3	20
17	Initiation and development of a mesoscale convective system in the Ebro River Valley and related heavy precipitation over northeastern Spain during HyMeX IOP 15a. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 942-956.	2.7	19
18	Cloud characteristics and channel selection for IASI radiances in meteorologically sensitive areas. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 1839-1856.	2.7	18

#	ARTICLE	IF	CITATIONS
19	Evaluation of a revised IASI channel selection for cloudy retrievals with a focus on the Mediterranean basin. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1563-1577.	2.7	18
20	Dense water formation in the north-western Mediterranean area during HyMeX SOP2 in 1/36° ocean simulations: Sensitivity to initial conditions. Journal of Geophysical Research: Oceans, 2016, 121, 5549-5569.	2.6	17
21	A multi-instrument and multi-model assessment of atmospheric moisture variability over the western Mediterranean during HyMeX. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 7-22.	2.7	16
22	Simulation of W-band radar reflectivity for model validation and data assimilation. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 391-403.	2.7	16
23	Offshore winds obtained from a network of wind profiler radars during HyMeX. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 23-42.	2.7	12
24	The AROME-WMED reanalyses of the first special observation period of the Hydrological cycle in the Mediterranean experiment (HyMeX). Geoscientific Model Development, 2019, 12, 2657-2678.	3.6	12
25	Update of Infrared Atmospheric Sounding Interferometer (IASI) channel selection with correlated observation errors for numerical weather prediction (NWP). Atmospheric Measurement Techniques, 2020, 13, 2659-2680.	3.1	12
26	Overview towards improved understanding of the mechanisms leading to heavy precipitation in the western Mediterranean: lessons learned from HyMeX. Atmospheric Chemistry and Physics, 2021, 21, 17051-17078.	4.9	12
27	A simulated observation database to assess the impact of the IASI-NG hyperspectral infrared sounder. Atmospheric Measurement Techniques, 2018, 11, 803-818.	3.1	11
28	Impact of airborne cloud radar reflectivity data assimilation on kilometre-scale numerical weather prediction analyses and forecasts of heavy precipitation events. Natural Hazards and Earth System Sciences, 2019, 19, 907-926.	3.6	11
29	Dense water formation in the north-western Mediterranean area during HyMeX SOP2 in 1/36° ocean simulations: Ocean-atmosphere coupling impact. Journal of Geophysical Research: Oceans, 2017, 122, 5749-5773.	2.6	10
30	Investigating the potential benefit to a mesoscale NWP model of a microwave sounder on board a geostationary satellite. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2104-2115.	2.7	9
31	Lagrangian dynamics of the mistral during the HyMeX SOP2. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1387-1402.	3.3	8
32	Toward the improvement of short-range forecasts by the analysis of cloud variables from IASI radiances. Atmospheric Science Letters, 2014, 15, 342-347.	1.9	7
33	Data assimilation impact studies with the AROME-WMED reanalysis of the first special observation period of the Hydrological cycle in the Mediterranean Experiment. Natural Hazards and Earth System Sciences, 2021, 21, 463-480.	3.6	7
34	Comparison of real-time refractivity measurements by radar with automatic weather stations, AROME-WMED and WRF forecast simulations during SOP1 of the HyMeX campaign. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 138-152.	2.7	6
35	Assimilation of IASI Ozone Sensitive Channels in Preparation for an Enhanced Coupling Between Numerical Weather Prediction and Chemistry Transport Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12452-12473.	3.3	6
36	Organized Turbulence in a Cold-Air Outbreak: Evaluating a Large-Eddy Simulation with Respect to Airborne Measurements. Boundary-Layer Meteorology, 2020, 175, 57-91.	2.3	6

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37	An Infrared Atmospheric Sounding Interferometer's New Generation (IASI-NG) channel selection for numerical weather prediction. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3297-3317.	2.7	6
38	A network of water vapor Raman lidars for improving heavy precipitation forecasting in southern France: introducing the WaLiNeAs initiative. Bulletin of Atmospheric Science and Technology, 2021, 2, 1.	0.9	5
39	Analysis of MTC-IRS observations and general channel selection for numerical weather prediction models. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1864-1885.	2.7	5
40	Use of Infrared Satellite Observations for the Surface Temperature Retrieval over Land in a NWP Context. Remote Sensing, 2019, 11, 2371.	4.0	3
41	Le programme HYMEX : connaissances et perspectives des pluies intenses et crues rapides en Méditerranée. Houille Blanche, 2019, 105, 5-12.	0.3	3
42	Lidar observations of low-level wind reversals over the Gulf of Lion and characterization of their impact on the water vapour variability. AIP Conference Proceedings, 2017, , .	0.4	2
43	Homogeneity criteria from AVHRR information within IASI pixels in a numerical weather prediction context. Atmospheric Measurement Techniques, 2019, 12, 3001-3017.	3.1	2
44	Assimilation of wind data from airborne Doppler cloud-profiling radar in a kilometre-scale NWP system. Natural Hazards and Earth System Sciences, 2019, 19, 821-835.	3.6	2
45	Use of variable ozone in a radiative transfer model for the global Météo-France 4DVar system. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 3729-3746.	2.7	1