

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	Analysis of MTCâ€RS observations and general channel selection for numerical weather prediction models. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1864-1885.	2.7	5
2	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
3	An Infrared Atmospheric Sounding Interferometerâ€New Generation (IASIâ€NG) channel selection for numerical weather prediction. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3297-3317.	2.7	6
4	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
5	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
6	Use of variable ozone in a radiative transfer model for the global MÃ©tÃ©o-France 4Dâ€Var system. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 3729-3746.	2.7	1
7	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
8	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
9	Homogeneity criteria from AVHRR information within IASI pixels in a numerical weather prediction context. Atmospheric Measurement Techniques, 2019, 12, 3001-3017.	3.1	2
10	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
11	Use of Infrared Satellite Observations for the Surface Temperature Retrieval over Land in a NWP Context. Remote Sensing, 2019, 11, 2371.	4.0	3
12	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
13	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
14	Le programme HYMEXâ€%â€%Connaissances et prÃ©vision des pluies intenses et crues rapides en rÃ©gion mÃ©diterranÃ©enne. Houille Blanche, 2019, 105, 5-12.	0.3	3
15	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
16	Assimilation of IASI Ozoneâ€Sensitive Channels in Preparation for an Enhanced Coupling Between Numerical Weather Prediction and Chemistry Transport Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,452-12,473.	3.3	6
17	Ãsimulated observation database to assess the impact of the IASI-NG hyperspectral infrared sounder. Atmospheric Measurement Techniques, 2018, 11, 803-818.	3.1	11
18	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

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19	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
20	Dense water formation in the northwestern 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
21	Lagrangian dynamics of the mistral during the HyMeX SOP2. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1387-1402.	3.3	8
22	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
23	HyMeX-SOP2: The Field Campaign Dedicated to Dense Water Formation in the Northwestern Mediterranean. , 2016, 29, 196-206.		33
24	Convective initiation and maintenance processes of two backbuilding mesoscale convective systems leading to heavy precipitation events in Southern Italy during HyMeX IOP 13. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 2623-2635.	2.7	27
25	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
26	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
27	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
28	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
29	Dense water formation in the northwestern 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
30	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
31	A high-quality reprocessed ground-based GPS dataset for atmospheric process studies, radiosonde and model evaluation, and reanalysis of HyMeX Special Observing Period. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 56-71.	2.7	44
32	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
33	AROME-WMED, a real-time mesoscale model designed for the HyMeX special observation periods. Geoscientific Model Development, 2015, 8, 1919-1941.	3.6	37
34	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
35	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
36	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

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37	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
38	Driftsondes: Providing In Situ Long-Duration Dropsonde Observations over Remote Regions. Bulletin of the American Meteorological Society, 2013, 94, 1661-1674.	3.3	20
39	Hyperspectral Earth Observation from IASI: Five Years of Accomplishments. Bulletin of the American Meteorological Society, 2012, 93, 347-370.	3.3	357
40	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
41	Assimilation of AIRS Radiances Affected by Mid- to Low-Level Clouds. Monthly Weather Review, 2009, 137, 4276-4292.	1.4	50
42	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
43	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
44	Channel selection methods for Infrared Atmospheric Sounding Interferometer radiances. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 1011-1027.	2.7	124
45	The 1997 spectroscopic GEISA databank. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 62, 205-254.	2.3	237