VÃ©ronique Ducrocq

List of Publications by Year
in descending order

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103	4,108	147566	133063
papers	citations	31 h-index	59 g-index

113	113	113	2956
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Catastrophic Flash-Flood Event of 8â€“9 September 2002 in the Gard Region, France: A First Case Study for the CÃ©vennesâ€“Vivarais Mediterranean Hydrometeorological Observatory. Journal of Hydrometeorology, 2005, 6, 34-52.	0.7	333
2	HyMeX: A 10-Year Multidisciplinary Program on the Mediterranean Water Cycle. Bulletin of the American Meteorological Society, 2014, 95, 1063-1082.	1.7	288
3	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.	1.7	262
4	Overview of the Meso-NH model version 5.4 and its applications. Geoscientific Model Development, 2018, 11, 1929-1969.	1.3	194
5	A numerical study of three catastrophic precipitating events over southern France. I: Numerical framework and synoptic ingredients. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 111-130.	1.0	178
6	A numerical study of three catastrophic precipitating events over southern France. II: Mesoscale triggering and stationarity factors. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 131-145.	1.0	168
7	Storm-Scale Numerical Rainfall Prediction for Five Precipitating Events over France: On the Importance of the Initial Humidity Field. Weather and Forecasting, 2002, 17, 1236-1256.	0.5	146
8	A Climatology of the Mesoscale Environment Associated with Heavily Precipitating Events over a Northwestern Mediterranean Area. Journal of Applied Meteorology and Climatology, 2012, 51, 468-488.	0.6	122
9	Cloud-Resolving Ensemble Simulations of Mediterranean Heavy Precipitating Events: Uncertainty on Initial Conditions and Lateral Boundary Conditions. Monthly Weather Review, 2011, 139, 403-423.	0.5	106
10	Sensitivity of torrential rain events to the sea surface temperature based on high-resolution numerical forecasts. Journal of Geophysical Research, 2006, 111, .	3.3	104
11	A statistical downscaling to identify the largeâ€scale circulation patterns associated with heavy precipitation events over southern France. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1812-1827.	1.0	100
12	Origin of the moisture feeding the Heavy Precipitating Systems over Southeastern France. Natural Hazards and Earth System Sciences, 2011, 11, 1163-1178.	1.5	92
13	1D+3DVar assimilation of radar reflectivity data: a proof of concept. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 62, 173.	0.8	90
14	Multiscale Observations of Deep Convection in the Northwestern Mediterranean Sea During Winter 2012â€“2013 Using Multiple Platforms. Journal of Geophysical Research: Oceans, 2018, 123, 1745-1776.	1.0	71
15	Perturbation of convection-permitting NWP forecasts for flash-flood ensemble forecasting. Natural Hazards and Earth System Sciences, 2011, 11, 1529-1544.	1.5	68
16	GPS zenith delay sensitivity evaluated from high-resolution numerical weather prediction simulations of the 8â€“9 September 2002 flash flood over southeastern France. Journal of Geophysical Research, 2006, 111, .	3.3	64
17	Benefit of coupling the ISBA land surface model with a TOPMODEL hydrological model version dedicated to Mediterranean flash-floods. Journal of Hydrology, 2010, 394, 256-266.	2.3	53
18	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.	1.0	53

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19	SURFEX v8.0 interface with OASIS3-MCT to couple atmosphere with hydrology, ocean, waves and sea-ice models, from coastal to global scales. Geoscientific Model Development, 2017, 10, 4207-4227.	1.3	50
20	Idealized numerical simulations of quasiâ€stationary convective systems over the Northwestern Mediterranean complex terrain. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1751-1763.	1.0	49
21	Hydrometeorological multi-model ensemble simulations of the 4 November 2011 flash flood event in Genoa, Italy, in the framework of the DRIHM project. Natural Hazards and Earth System Sciences, 2015, 15, 537-555.	1.5	47
22	Impact of GPS zenith delay assimilation on convectiveâ€scale prediction of Mediterranean heavy rainfall. Journal of Geophysical Research, 2009, 114, .	3.3	45
23	A Radar Simulator for High-Resolution Nonhydrostatic Models. Journal of Atmospheric and Oceanic Technology, 2006, 23, 1049-1067.	0.5	44
24	Initiation of a severe thunderstorm over the Mediterranean Sea. Atmospheric Research, 2011, 100, 603-620.	1.8	43
25	Initialization of a fine-scale model for convective-system prediction: A case study. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 3041-3065.	1.0	42
26	Hydrological evaluation of high-resolution precipitation forecasts of the Gard flash-flood event (8â€“9 September 2002). Quarterly Journal of the Royal Meteorological Society, 2006, 132, 1091-1117.	1.0	42
27	Coupling the ISBA Land Surface Model and the TOPMODEL Hydrological Model for Mediterranean Flash-Flood Forecasting: Description, Calibration, and Validation. Journal of Hydrometeorology, 2010, 11, 315-333.	0.7	42
28	A GPS network for tropospheric tomography in the framework of the Mediterranean hydrometeorological observatory CÃ©vennes-Vivarais (southeastern France). Atmospheric Measurement Techniques, 2014, 7, 553-578.	1.2	41
29	The benefit of GPS zenith delay assimilation to highâ€resolution quantitative precipitation forecasts: a caseâ€study from COPS IOP 9. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1788-1800.	1.0	38
30	Hydro-meteorological evaluation of a convection-permitting ensemble prediction system for Mediterranean heavy precipitating events. Natural Hazards and Earth System Sciences, 2012, 12, 2631-2645.	1.5	38
31	Assessment of the water supply to Mediterranean heavy precipitation: a method based on finely designed water budgets. Atmospheric Science Letters, 2013, 14, 133-138.	0.8	38
32	Modelling Mediterranean heavy precipitation events at climate scale: an object-oriented evaluation of the CNRM-AROME convection-permitting regional climate model. Climate Dynamics, 2021, 56, 1717-1752.	1.7	36
33	An overview of the lightning and atmospheric electricity observations collected in southern France during the HYdrological cycle in Mediterranean EXperiment (HyMeX), Special Observation Period 1. Atmospheric Measurement Techniques, 2015, 8, 649-669.	1.2	35
34	HyMeX-SOP2: The Field Campaign Dedicated to Dense Water Formation in the Northwestern Mediterranean. , 2016, 29, 196-206.		33
35	Observation of lowâ€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.	1.0	30
36	Point and areal validation of forecast precipitation fields. Meteorological Applications, 2006, 13, 1.	0.9	29

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37	Uncertainty of lateral boundary conditions in a convection-permitting ensemble: a strategy of selection for Mediterranean heavy precipitation events. Natural Hazards and Earth System Sciences, 2012, 12, 2993-3011.	1.5	29
38	Highâ€resolution airâ€“sea coupling impact on two heavy precipitation events in the Western Mediterranean. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2448-2462.	1.0	28
39	Twoâ€way oneâ€dimensional highâ€resolution airâ€“sea coupled modelling applied to Mediterranean heavy rain events. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 187-204.	1.0	27
40	Convective initiation and maintenance processes of two backâ€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.	1.0	27
41	Characterization of airâ€“sea exchanges over the Western Mediterranean Sea during HyMeX SOP1 using the AROMEâ€“WMED model. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 173-187.	1.0	27
42	Statisticoâ€dynamical downscaling for Mediterranean heavy precipitation. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 736-748.	1.0	26
43	Ocean Mixed Layer responses to intense meteorological events during HyMeX-SOP1 from a high-resolution ocean simulation. Ocean Modelling, 2014, 84, 84-103.	1.0	25
44	Idealized mesoscale numerical study of Mediterranean heavy precipitating convective systems. Meteorology and Atmospheric Physics, 2009, 103, 45-55.	0.9	24
45	A seamless weatherâ€“climate multiâ€model intercomparison on the representation of a high impact weather event in the western Mediterranean: <scp>HyMeX IOP12</scp>. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 433-452.	1.0	24
46	Comparisons between Sâ€, Câ€and Xâ€band polarimetric radar observations and convectiveâ€scale simulations of the HyMeX first special observing period. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 347-362.	1.0	24
47	THORPEX Research and the Science of Prediction. Bulletin of the American Meteorological Society, 2017, 98, 807-830.	1.7	23
48	An ensemble study of HyMeX IOP6 and IOP7a: sensitivity to physical and initial and boundary condition uncertainties. Natural Hazards and Earth System Sciences, 2014, 14, 1071-1084.	1.5	23
49	Multifrequency Radar Observations Collected in Southern France during HyMeX-SOP1. Bulletin of the American Meteorological Society, 2015, 96, 267-282.	1.7	22
50	Modeling flash floods in southern France for road management purposes. Journal of Hydrology, 2016, 541, 190-205.	2.3	22
51	Sensitivity of three Mediterranean heavy rain events to two different sea surface fluxes parameterizations in highâ€resolution numerical modeling. Journal of Geophysical Research, 2008, 113, .	3.3	21
52	Ensemble-based flash-flood modelling: Taking into account hydrodynamic parameters and initial soil moisture uncertainties. Journal of Hydrology, 2018, 560, 480-494.	2.3	20
53	Influence of the sea state on Mediterranean heavy precipitation: a caseâ€study from HyMeX SOP1. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 377-389.	1.0	19
54	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.	1.0	19

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55	Role of moisture patterns in the backbuilding formation of HyMeX IOP13 heavy precipitation systems. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 291-303.	1.0	19
56	Mesoscale analyses and diagnostic parameters for deep convection nowcasting. Meteorological Applications, 2000, 7, 145-161.	0.9	18
57	Introduction to the <scp>HyMeX S</scp>pecial Issue on â€˜Advances in understanding and forecasting of heavy precipitation in the Mediterranean through the <scp>HyMeX SOP1</scp> field campaignâ€™. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1-6.	1.0	18
58	Simulation of an Observed Squall Line with a Meso-Beta-Scale Hydrostatic Model. Weather and Forecasting, 1995, 10, 380-399.	0.5	17
59	Potential of shipborne GPS atmospheric delay data for prediction of Mediterranean intense weather events. Atmospheric Science Letters, 2012, 13, 250-256.	0.8	17
60	Dense water formation in the northâ€western Mediterranean area during HyMeXâ€SOP2 in 1/36Â° ocean simulations: Sensitivity to initial conditions. Journal of Geophysical Research: Oceans, 2016, 121, 5549-5569.	1.0	17
61	Flash flood forecasting within the PREVIEW project: value of high-resolution hydrometeorological coupled forecast. Meteorology and Atmospheric Physics, 2009, 103, 115-125.	0.9	16
62	Evaluation and application of hydrometeor classification algorithm outputs inferred from multiâ€frequency dualâ€polarimetric radar observations collected during HyMeX. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 95-107.	1.0	16
63	A multiâ€instrument and multiâ€model assessment of atmospheric moisture variability over the western Mediterranean during HyMeX. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 7-22.	1.0	16
64	Simulation ofÂ Wâ€band radar reflectivity for model validation and data assimilation. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 391-403.	1.0	16
65	Diagnostic tools using a mesoscale NWP model for the early warning of convection. Meteorological Applications, 1998, 5, 329-349.	0.9	15
66	Fineâ€scale numerical analysis of the sensitivity of the HyMeX IOP16a heavy precipitating event to the turbulent mixingâ€length parametrization. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 3122-3135.	1.0	15
67	Evaluation of the twoâ€moment scheme LIMA based on microphysical observations from the HyMeX campaign. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1398-1414.	1.0	15
68	Assessing the impact of resolution and soil datasets on flash-flood modelling. Hydrology and Earth System Sciences, 2019, 23, 1801-1818.	1.9	15
69	Le projet AROME. Houille Blanche, 2005, 91, 39-43.	0.3	15
70	Hydrometeorological modelling for flash flood areas: the case of the 2002 Gard event in France. Journal of Flood Risk Management, 2009, 2, 101-110.	1.6	13
71	Impact of upstream moisture structure on a back-building convective precipitation system in south-eastern France during HyMeX IOP13. Atmospheric Chemistry and Physics, 2018, 18, 16845-16862.	1.9	13
72	Effects of the airâ€“sea coupling time frequency on the ocean response during Mediterranean intense events. Ocean Dynamics, 2009, 59, 539-549.	0.9	12

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73	Numerical simulations of significant orographic precipitation in Madeira island. Atmospheric Research, 2016, 169, 102-112.	1.8	12
74	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.	1.9	12
75	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.	1.5	11
76	Characterization of the airâ€“sea exchange mechanisms during a Mediterranean heavy precipitation event using realistic sea state modelling. Atmospheric Chemistry and Physics, 2020, 20, 1675-1699.	1.9	11
77	Lâ€™Ã©vÃ©nement des 8-9 septembre 2002Â: situation mÃ©tÃ©orologique et simulation a mÃ©soÃ©chelle. Houille Blanche, 2004, 90, 86-92.	0.3	11
78	Dense water formation in the northâ€western M editerranean area during HyMeXâ€SOP2 in 1/36Â° ocean simulations: Oceanâ€atmosphere coupling impact. Journal of Geophysical Research: Oceans, 2017, 122, 5749-5773.	1.0	10
79	PrÃ©visions hydrologiques et Ã©chelles spatiales : l'exemple des modÃ¨les opÃ©rationnels de MÃ©tÃ©o-France. Comptes Rendus - Geoscience, 2005, 337, 181-192.	0.4	9
80	Assimilation of radar dualâ€polarization observations in the AROME model. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1352-1368.	1.0	9
81	Assimilation of Radar Data in Numerical Weather Prediction (NWP) Models. Physics of Earth and Space Environments, 2004, , 255-279.	0.5	9
82	What Should Be Considered When Simulating Doppler Velocities Measured by Ground-Based Weather Radars?. Journal of Applied Meteorology and Climatology, 2008, 47, 2256-2262.	0.6	8
83	Adiabatic and Viscous Simulations of Symmetric Instability: Structure, Evolution, and Energetics. Journals of the Atmospheric Sciences, 1993, 50, 23-42.	0.6	7
84	The Challenges of Flash Flood Forecasting. , 2018, , 63-88.		7
85	Parallelization of the French Meteorological Mesoscale Model MÃ©soNH. Lecture Notes in Computer Science, 1999, , 1417-1422.	1.0	6
86	Description of convective-scale numerical weather simulation use in a flight simulator within the Flysafe project. Meteorology and Atmospheric Physics, 2009, 103, 127-136.	0.9	5
87	Simulation of satellite infrared radiances for convectiveâ€scale data assimilation over the Mediterranean. Journal of Geophysical Research, 2010, 115, .	3.3	5
88	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.	0.4	5
89	A Numerical Study of a Nontornadic Supercell over France. Monthly Weather Review, 2003, 131, 2290-2311.	0.5	4
90	Mesoscale analysis and impact on simulation of IOP14 of the MAP experiment. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 2769-2793.	1.0	4

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91	Impact of the representation of the freshwater river input in the Western Mediterranean Sea. Ocean Modelling, 2018, 131, 115-131.	1.0	4
92	Hectometric-scale simulations of a Mediterranean heavy-precipitation event during the Hydrological cycle in the Mediterranean Experiment (HyMeX) first Special Observation Period (SOP1). Atmospheric Chemistry and Physics, 2020, 20, 14649-14667.	1.9	4
93	Hydrometeorological evaluation of two nowcasting systems for Mediterranean heavy precipitation events with operational considerations. Hydrology and Earth System Sciences, 2022, 26, 2697-2714.	1.9	4
94	Understanding significant precipitation in Madeira island using highâ€resolution numerical simulations of real cases. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 251-264.	1.0	3
95	Le programme HYMEXâ€‰â€“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
96	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, , .	0.3	2
97	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.	1.5	2
98	Initialization of a fine-scale model for convective-system prediction: A case study. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 3041-3065.	1.0	2
99	Preface: Forecast and projection in climate scenario of Mediterranean intense events: uncertainties and propagation on environment (the MEDUP project). Natural Hazards and Earth System Sciences, 2013, 13, 3043-3047.	1.5	1
100	La MÃ©diterranÃ©e, rÃ©gion tÃ©moinÂ: de Cyprim Ã Hymex. Houille Blanche, 2007, 93, 90-96.	0.3	1
101	Lidar Observations of Low-level Wind Reversals over the Gulf of Lion and Characterization of Their Impact on the Water Vapour Variability. EPJ Web of Conferences, 2016, 119, 15002.	0.1	0
102	Simulation Ã haute rÃ©solution des Ã©pisodes convectifs et impacts hydrologiques sur la rÃ©gion CÃ©vennes - Vivarais. Houille Blanche, 2002, 88, 40-45.	0.3	0
103	De l'incertitude dans un systÃ¨me de prÃ©vision d'ensemble des crues rapides mÃ©diterranÃ©ennes. Houille Blanche, 2019, 105, 22-30.	0.3	0