Véronique Ducrocq

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7935094/publications.pdf

Version: 2024-02-01

103 papers

4,108 citations

147566 31 h-index 59 g-index

113 all docs

113 docs citations

113 times ranked

2956 citing authors

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 1D+3DVar assimilation of radar reflectivity data: a proof of concept. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 62, 173. | 0.8 | 90 |
| 2 | 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 |
| 3 | 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 |
| 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. | 0.4 | 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. | 1.9 | 12 |
| 6 | Characterization of the air–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 |
| 7 | 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 |
| 8 | Assessing the impact of resolution and soil datasets on flash-flood modelling. Hydrology and Earth System Sciences, 2019, 23, 1801-1818. | 1.9 | 15 |
| 9 | 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 |
| 10 | 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 |
| 11 | Le programme HYMEX – Connaissances et prévision des pluies intenses et crues rapides en région méditerranéenne. Houille Blanche, 2019, 105, 5-12. | 0.3 | 3 |
| 12 | De l'incertitude dans un systà me de prévision d'ensemble des crues rapides méditerranéennes. Houille Blanche, 2019, 105, 22-30. | 0.3 | 0 |
| 13 | Multiscale Observations of Deep Convection in the Northwestern Mediterranean Sea During Winter 2012–2013 Using Multiple Platforms. Journal of Geophysical Research: Oceans, 2018, 123, 1745-1776. | 1.0 | 71 |
| 14 | 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 |
| 15 | Simulation of Wâ€band radar reflectivity for model validation and data assimilation. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 391-403. | 1.0 | 16 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|----|---|-----|-----------|
| 19 | Assimilation of radar dualâ€polarization observations in the AROME model. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1352-1368. | 1.0 | 9 |
| 20 | Impact of the representation of the freshwater river input in the Western Mediterranean Sea. Ocean Modelling, 2018, 131, 115-131. | 1.0 | 4 |
| 21 | Overview of the Meso-NH model version 5.4 and its applications. Geoscientific Model Development, 2018, 11, 1929-1969. | 1.3 | 194 |
| 22 | The Challenges of Flash Flood Forecasting. , 2018, , 63-88. | | 7 |
| 23 | THORPEX Research and the Science of Prediction. Bulletin of the American Meteorological Society, 2017, 98, 807-830. | 1.7 | 23 |
| 24 | 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 |
| 25 | Dense water formation in the northâ€western M editerranean area during HyMeXâ€SOP2 in 1/36° ocean simulations: Oceanâ€atmosphere coupling impact. Journal of Geophysical Research: Oceans, 2017, 122, 5749-5773. | 1.0 | 10 |
| 26 | 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 |
| 27 | Highâ€resolution air–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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | HyMeX-SOP2: The Field Campaign Dedicated to Dense Water Formation in the Northwestern Mediterranean., 2016, 29, 196-206. | | 33 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Modeling flash floods in southern France for road management purposes. Journal of Hydrology, 2016, 541, 190-205. | 2.3 | 22 |
| 38 | 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 |
| 39 | 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. | 1.0 | 27 |
| 40 | 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 campaign'. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1-6. | 1.0 | 18 |
| 41 | Dense water formation in the northâ€western Mediterranean area during HyMeXâ€SOP2 in 1/36° ocean simulations: Sensitivity to initial conditions. Journal of Geophysical Research: Oceans, 2016, 121, 5549-5569. | 1.0 | 17 |
| 42 | 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 |
| 43 | A seamless weather–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 |
| 44 | Comparisons between Sâ€, C†and X†band polarimetric radar observations and convective†scale simulations of the HyMeX first special observing period. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 347-362. | 1.0 | 24 |
| 45 | Numerical simulations of significant orographic precipitation in Madeira island. Atmospheric Research, 2016, 169, 102-112. | 1.8 | 12 |
| 46 | 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 |
| 47 | 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 |
| 48 | Multifrequency Radar Observations Collected in Southern France during HyMeX-SOP1. Bulletin of the American Meteorological Society, 2015, 96, 267-282. | 1.7 | 22 |
| 49 | A GPS network for tropospheric tomography in the framework of the Mediterranean hydrometeorological observatory Cévennes-Vivarais (southeastern France). Atmospheric Measurement Techniques, 2014, 7, 553-578. | 1.2 | 41 |
| 50 | HyMeX: A 10-Year Multidisciplinary Program on the Mediterranean Water Cycle. Bulletin of the American Meteorological Society, 2014, 95, 1063-1082. | 1.7 | 288 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

| # | Article | IF | CITATIONS |
|----|---|-------------|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 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 | 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 |
| 61 | Initiation of a severe thunderstorm over the Mediterranean Sea. Atmospheric Research, 2011, 100, 603-620. | 1.8 | 43 |
| 62 | 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 |
| 63 | Perturbation of convection-permitting NWP forecasts for flash-flood ensemble forecasting. Natural Hazards and Earth System Sciences, 2011, 11, 1529-1544. | 1.5 | 68 |
| 64 | 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 |
| 65 | Statisticoâ€dynamical downscaling for Mediterranean heavy precipitation. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 736-748. | 1.0 | 26 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | Simulation of satellite infrared radiances for convective \hat{s} cale data assimilation over the Mediterranean. Journal of Geophysical Research, 2010, 115, . | 3. 3 | 5 |
| 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 | Effects of the air–sea coupling time frequency on the ocean response during Mediterranean intense events. Ocean Dynamics, 2009, 59, 539-549. | 0.9 | 12 |
| 72 | 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 |

| # | Article | IF | CITATIONS |
|----|---|-------------------|-----------|
| 73 | 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 |
| 74 | Idealized mesoscale numerical study of Mediterranean heavy precipitating convective systems. Meteorology and Atmospheric Physics, 2009, 103, 45-55. | 0.9 | 24 |
| 75 | Twoâ€way oneâ€dimensional highâ€resolution air–sea coupled modelling applied to Mediterranean heavy rain events. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 187-204. | 1.0 | 27 |
| 76 | 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 |
| 77 | Impact of GPS zenith delay assimilation on convectiveâ€scale prediction of Mediterranean heavy rainfall. Journal of Geophysical Research, 2009, 114, . | 3.3 | 45 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | 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 |
| 82 | La Méditerranée, région témoinÂ: de Cyprim à Hymex. Houille Blanche, 2007, 93, 90-96. | 0.3 | 1 |
| 83 | GPS zenith delay sensitivity evaluated from high-resolution numerical weather prediction simulations of the 8–9 September 2002 flash flood over southeastern France. Journal of Geophysical Research, 2006, 111, . | 3.3 | 64 |
| 84 | 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 |
| 85 | Point and areal validation of forecast precipitation fields. Meteorological Applications, 2006, 13, 1. | 0.9 | 29 |
| 86 | Hydrological evaluation of high-resolution precipitation forecasts of the Gard flash-flood event (8–9 September 2002). Quarterly Journal of the Royal Meteorological Society, 2006, 132, 1091-1117. | 1.0 | 42 |
| 87 | A Radar Simulator for High-Resolution Nonhydrostatic Models. Journal of Atmospheric and Oceanic Technology, 2006, 23, 1049-1067. | 0.5 | 44 |
| 88 | 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 |
| 89 | The Catastrophic Flash-Flood Event of 8–9 September 2002 in the Gard Region, France: A First Case Study for the Cévennes–Vivarais Mediterranean Hydrometeorological Observatory. Journal of Hydrometeorology, 2005, 6, 34-52. | 0.7 | 333 |
| 90 | Prévisions hydrologiques et échelles spatiales : l'exemple des modà les opérationnels de Météo-France Comptes Rendus - Geoscience, 2005, 337, 181-192. | ^{2.} 0.4 | 9 |

| # | Article | IF | CITATIONS |
|-----|---|----------------|-----------|
| 91 | Le projet AROME. Houille Blanche, 2005, 91, 39-43. | 0.3 | 15 |
| 92 | Assimilation of Radar Data in Numerical Weather Prediction (NWP) Models. Physics of Earth and Space Environments, 2004, , 255-279. | 0.5 | 9 |
| 93 | L'événement des 8-9 septembre 2002Â: situation météorologique et simulation a mésoéchelle. Blanche, 2004, 90, 86-92. | Houille 0.3 | 11 |
| 94 | A Numerical Study of a Nontornadic Supercell over France. Monthly Weather Review, 2003, 131, 2290-2311. | 0.5 | 4 |
| 95 | 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 |
| 96 | Simulation à haute résolution des épisodes convectifs et impacts hydrologiques sur la région Cévennes - Vivarais. Houille Blanche, 2002, 88, 40-45. | 0.3 | O |
| 97 | 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 |
| 98 | Mesoscale analyses and diagnostic parameters for deep convection nowcasting. Meteorological Applications, 2000, 7, 145-161. | 0.9 | 18 |
| 99 | 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 |
| 100 | Parallelization of the French Meteorological Mesoscale Model MésoNH. Lecture Notes in Computer Science, 1999, , 1417-1422. | 1.0 | 6 |
| 101 | Diagnostic tools using a mesoscale NWP model for the early warning of convection. Meteorological Applications, 1998, 5, 329-349. | 0.9 | 15 |
| 102 | Simulation of an Observed Squall Line with a Meso-Beta-Scale Hydrostatic Model. Weather and Forecasting, 1995, 10, 380-399. | 0.5 | 17 |
| 103 | Adiabatic and Viscous Simulations of Symmetric Instability: Structure, Evolution, and Energetics. Journals of the Atmospheric Sciences, 1993, 50, 23-42. | 0.6 | 7 |