

Heini Wernli

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

238
papers

12,256
citations

60
h-index

102
g-index

326
ext. papers

13,884
ext. citations

4.9
avg, IF

6.68
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 238 | Lagrangian formation pathways of moist anomalies in the trade-wind region during the dry season: two case studies from EUREC4A. <i>Weather and Climate Dynamics</i> , 2022 , 3, 59-88 | 3.3 | 0 |
| 237 | Identification, characteristics and dynamics of Arctic extreme seasons. <i>Weather and Climate Dynamics</i> , 2022 , 3, 89-111 | 3.3 | |
| 236 | Characterization of transport from the Asian summer monsoon anticyclone into the UTLS via shedding of low potential vorticity cutoffs. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 3841-3860 | 6.8 | 1 |
| 235 | How intense daily precipitation depends on temperature and the occurrence of specific weather systems – an investigation with ERA5 reanalyses in the extratropical Northern Hemisphere. <i>Weather and Climate Dynamics</i> , 2022 , 3, 391-411 | 3.3 | 1 |
| 234 | Disentangling different moisture transport pathways over the eastern subtropical North Atlantic using multi-platform isotope observations and high-resolution numerical modelling. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 16319-16347 | 6.8 | 1 |
| 233 | Systematic assessment of the diabatic processes that modify low-level potential vorticity in extratropical cyclones. <i>Weather and Climate Dynamics</i> , 2021 , 2, 1073-1091 | 3.3 | 0 |
| 232 | How Rossby wave breaking modulates the water cycle in the North Atlantic trade wind region. <i>Weather and Climate Dynamics</i> , 2021 , 2, 281-309 | 3.3 | 8 |
| 231 | The role of air-sea fluxes for the water vapour isotope signals in the cold and warm sectors of extratropical cyclones over the Southern Ocean. <i>Weather and Climate Dynamics</i> , 2021 , 2, 331-357 | 3.3 | 3 |
| 230 | Lagrangian matches between observations from aircraft, lidar and radar in a warm conveyor belt crossing orography. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5477-5498 | 6.8 | 2 |
| 229 | The three-dimensional life cycles of potential vorticity cutoffs: a global and selected regional climatologies in ERA-Interim (1979-2018). <i>Weather and Climate Dynamics</i> , 2021 , 2, 507-534 | 3.3 | 12 |
| 228 | A potential vorticity perspective on cyclogenesis over centre-eastern South America. <i>International Journal of Climatology</i> , 2021 , 41, 663-678 | 3.5 | 9 |
| 227 | The storm-track suppression over the western North Pacific from a cyclone life-cycle perspective. <i>Weather and Climate Dynamics</i> , 2021 , 2, 55-69 | 3.3 | 5 |
| 226 | Observations and simulation of intense convection embedded in a warm conveyor belt – how ambient vertical wind shear determines the dynamical impact. <i>Weather and Climate Dynamics</i> , 2021 , 2, 89-110 | 3.3 | 5 |
| 225 | Extreme wet seasons – their definition and relationship with synoptic-scale weather systems. <i>Weather and Climate Dynamics</i> , 2021 , 2, 71-88 | 3.3 | 1 |
| 224 | Widening the common space to reduce the gap between climate science and decision-making in industry. <i>Climate Services</i> , 2021 , 23, 100237 | 3.8 | 2 |
| 223 | Sources and transport pathways of precipitating waters in cold-season deep North Atlantic cyclones. <i>Journals of the Atmospheric Sciences</i> , 2021 , | 2.1 | 3 |
| 222 | A Lagrangian Perspective on Stable Water Isotopes During the West African Monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034895 | 4.4 | 3 |

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| 221 | A New Framework for Identifying and Investigating Seasonal Climate Extremes. <i>Journal of Climate</i> , 2021 , 34, 7761-7782 | 4.4 | 1 |
| 220 | Meridional and vertical variations of the water vapour isotopic composition in the marine boundary layer over the Atlantic and Southern Ocean. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 5811-5835 | 6.8 | 11 |
| 219 | Kilometer-Scale Climate Models: Prospects and Challenges. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E567-E587 | 6.1 | 40 |
| 218 | Potential vorticity structure of embedded convection in a warm conveyor belt and its relevance for large-scale dynamics. <i>Weather and Climate Dynamics</i> , 2020 , 1, 127-153 | 3.3 | 17 |
| 217 | A Lagrangian analysis of upper-tropospheric anticyclones associated with heat waves in Europe. <i>Weather and Climate Dynamics</i> , 2020 , 1, 191-206 | 3.3 | 9 |
| 216 | The substructure of extremely hot summers in the Northern Hemisphere. <i>Weather and Climate Dynamics</i> , 2020 , 1, 45-62 | 3.3 | 3 |
| 215 | A Lagrangian analysis of the dynamical and thermodynamic drivers of large-scale Greenland melt events during 1979-2017. <i>Weather and Climate Dynamics</i> , 2020 , 1, 497-518 | 3.3 | 7 |
| 214 | Vertical cloud structure of warm conveyor belts – a comparison and evaluation of ERA5 reanalysis, CloudSat and CALIPSO data. <i>Weather and Climate Dynamics</i> , 2020 , 1, 577-595 | 3.3 | 3 |
| 213 | How an uncertain short-wave perturbation on the North Atlantic wave guide affects the forecast of an intense Mediterranean cyclone (Medicane Zorbas). <i>Weather and Climate Dynamics</i> , 2020 , 1, 597-615 | 3.3 | 12 |
| 212 | Attribution of precipitation to cyclones and fronts over Europe in a kilometer-scale regional climate simulation. <i>Weather and Climate Dynamics</i> , 2020 , 1, 675-699 | 3.3 | 6 |
| 211 | Structure, Process, and Mechanism 2020 , 15-43 | | 4 |
| 210 | Global and Regional Perspectives 2020 , 89-140 | | 2 |
| 209 | Stratospheric influence on ECMWF sub-seasonal forecast skill for energy-industry-relevant surface weather in European countries. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 , 146, 3675-3694 | 6.4 | 10 |
| 208 | On the Time Evolution of Limited-Area Ensemble Variance: Case Studies with the Convection-Permitting Ensemble COSMO-E. <i>Journals of the Atmospheric Sciences</i> , 2019 , 76, 11-26 | 2.1 | 5 |
| 207 | Marine versus Continental Sources of Iodine and Selenium in Rainfall at Two European High-Altitude Locations. <i>Environmental Science & Technology</i> , 2019 , 53, 1905-1917 | 10.3 | 13 |
| 206 | Water Vapor in the Asian Summer Monsoon Anticyclone: Comparison of Balloon-Borne Measurements and ECMWF Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 7053 | 4.4 | 7 |
| 205 | A numerical process study on the rapid transport of stratospheric air down to the surface over western North America and the Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 6535-6549 | 6.8 | 4 |
| 204 | Quantifying the role of individual diabatic processes for the formation of PV anomalies in a North Pacific cyclone. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019 , 145, 2454-2476 | 6.4 | 10 |

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| 203 | Convective activity in an extratropical cyclone and its warm conveyor belt – a case-study combining observations and a convection-permitting model simulation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019 , 145, 1406-1426 | 6.4 | 26 |
| 202 | Modification of Potential Vorticity near the Tropopause by Nonconservative Processes in the ECMWF Model. <i>Journals of the Atmospheric Sciences</i> , 2019 , 76, 1709-1726 | 2.1 | 14 |
| 201 | A new interpretative framework for below-cloud effects on stable water isotopes in vapour and rain. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 747-765 | 6.8 | 27 |
| 200 | Overview of the Antarctic Circumnavigation Expedition: Study of Preindustrial-like Aerosols and Their Climate Effects (ACE-SPACE). <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2260-2283 | 6.1 | 35 |
| 199 | Processes determining heat waves across different European climates. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019 , 145, 2973-2989 | 6.4 | 31 |
| 198 | On the Thermodynamic Preconditioning of Arctic Air Masses and the Role of Tropopause Polar Vortices for Cold Air Outbreaks From Fram Strait. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 11033-11050 | 4.4 | 11 |
| 197 | Lagrangian process attribution of isotopic variations in near-surface water vapour in a 30-year regional climate simulation over Europe. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1653-1669 | 6.8 | 10 |
| 196 | Role of polar anticyclones and mid-latitude cyclones for Arctic summertime sea-ice melting. <i>Nature Geoscience</i> , 2018 , 11, 108-113 | 18.3 | 58 |
| 195 | Assessment of an ensemble of ocean–atmosphere coupled and uncoupled regional climate models to reproduce the climatology of Mediterranean cyclones. <i>Climate Dynamics</i> , 2018 , 51, 1023-1040 | 4.2 | 23 |
| 194 | Northern Hemisphere Rossby Wave Initiation Events on the Extratropical Jet – A Climatological Analysis. <i>Journal of Climate</i> , 2018 , 31, 743-760 | 4.4 | 25 |
| 193 | The complex life cycles of two long-lived potential vorticity cut-offs over Europe. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 701-719 | 6.4 | 6 |
| 192 | An evaluation of the convection-permitting ensemble COSMO-E for three contrasting precipitation events in Switzerland. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 744-764 | 6.4 | 25 |
| 191 | The North Atlantic Waveguide and Downstream Impact Experiment. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1607-1637 | 6.1 | 77 |
| 190 | Investigations of Mesoscopic Complexity of Small Ice Crystals in Midlatitude Cirrus. <i>Geophysical Research Letters</i> , 2018 , 45, 11,465 | 4.9 | 4 |
| 189 | When during Their Life Cycle Are Extratropical Cyclones Attended by Fronts?. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 149-165 | 6.1 | 24 |
| 188 | Flow-Dependent Reliability: A Path to More Skillful Ensemble Forecasts. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1015-1026 | 6.1 | 21 |
| 187 | ML-CIRRUS: The Airborne Experiment on Natural Cirrus and Contrail Cirrus with the High-Altitude Long-Range Research Aircraft HALO. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 271-288 | 6.1 | 77 |
| 186 | THORPEX Research and the Science of Prediction. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 807-830 | 6.1 | 15 |

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| 185 | The Microphysical Building Blocks of Low-Level Potential Vorticity Anomalies in an Idealized Extratropical Cyclone. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 1403-1416 | 2.1 | 15 |
| 184 | Global Climatologies of Eulerian and Lagrangian Flow Features based on ERA-Interim. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 1739-1748 | 6.1 | 73 |
| 183 | Objective classification of extratropical cyclogenesis. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 1047-1061 | 6.4 | 21 |
| 182 | Increase in the number of extremely strong fronts over Europe? A study based on ERA-Interim reanalysis (1979-2014). <i>Geophysical Research Letters</i> , 2017 , 44, 553-561 | 4.9 | 21 |
| 181 | Marine Primary Productivity as a Potential Indirect Source of Selenium and Other Trace Elements in Atmospheric Deposition. <i>Environmental Science & Technology</i> , 2017 , 51, 108-118 | 10.3 | 20 |
| 180 | Atmospheric Rivers Emerge as a Global Science and Applications Focus. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 1969-1973 | 6.1 | 78 |
| 179 | Does the lower stratosphere provide predictability for month-ahead wind electricity generation in Europe?. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 3025-3036 | 6.4 | 20 |
| 178 | Balancing Europe's wind power output through spatial deployment informed by weather regimes. <i>Nature Climate Change</i> , 2017 , 7, 557-562 | 21.4 | 145 |
| 177 | Exceptional Air Mass Transport and Dynamical Drivers of an Extreme Wintertime Arctic Warm Event. <i>Geophysical Research Letters</i> , 2017 , 44, 12,028-12,036 | 4.9 | 37 |
| 176 | The stable isotopic composition of water vapour above Corsica during the HyMeX SOP1 campaign: insight into vertical mixing processes from lower-tropospheric survey flights. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6125-6151 | 6.8 | 35 |
| 175 | Effect of anthropogenic aerosol emissions on precipitation in warm conveyor belts in the western North Pacific in winter in a model study with ECHAM6-HAM. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6243-6255 | 6.8 | 8 |
| 174 | A trajectory-based classification of ERA-Interim ice clouds in the region of the North Atlantic storm track. <i>Geophysical Research Letters</i> , 2016 , 43, 6657-6664 | 4.9 | 30 |
| 173 | Effect of anthropogenic aerosol emissions on precipitation in warm conveyor belts in the western North Pacific in winter in a model study with ECHAM6-HAM 2016 , | | 1 |
| 172 | Processes leading to heavy precipitation associated with two Mediterranean cyclones observed during the HyMeX SOP1. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 275-286 | 6.4 | 32 |
| 171 | An algorithm for identifying the initiation of synoptic-scale Rossby waves on potential vorticity waveguides. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 889-900 | 6.4 | 14 |
| 170 | Large-scale wind and precipitation extremes in the Mediterranean: dynamical aspects of five selected cyclone events. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 3097-3114 | 6.4 | 25 |
| 169 | The Role of Warm Conveyor Belts for the Intensification of Extratropical Cyclones in Northern Hemisphere Winter. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 3997-4020 | 2.1 | 56 |
| 168 | Drivers of RH variations in an idealized extratropical cyclone. <i>Geophysical Research Letters</i> , 2016 , 43, 5401-5408 | 4.9 | 10 |

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| 167 | A Climatology of Cold Air Outbreaks and Their Impact on AirSea Heat Fluxes in the High-Latitude South Pacific. <i>Journal of Climate</i> , 2015 , 28, 342-364 | 4.4 | 56 |
| 166 | Large-scale wind and precipitation extremes in the Mediterranean: a climatological analysis for 1979-2012. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 2404-2417 | 6.4 | 64 |
| 165 | The Lagrangian analysis tool LAGRANTO -version 2.0 2015 , | | 12 |
| 164 | Importance of latent heat release in ascending air streams for atmospheric blocking. <i>Nature Geoscience</i> , 2015 , 8, 610-614 | 18.3 | 123 |
| 163 | Tropopause folds in ERA-Interim: Global climatology and relation to extreme weather events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 4860-4877 | 4.4 | 61 |
| 162 | IWAL - An Interactive Weather Analysis Laboratory. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 903-909 | 6.1 | 1 |
| 161 | The dynamical structure of intense Mediterranean cyclones. <i>Climate Dynamics</i> , 2015 , 44, 2411-2427 | 4.2 | 54 |
| 160 | Isotope meteorology of cold front passages: A case study combining observations and modeling. <i>Geophysical Research Letters</i> , 2015 , 42, 5652-5660 | 4.9 | 44 |
| 159 | A scaling relation for warm-phase orographic precipitation: a Lagrangian analysis for 2D mountains. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 2185-2198 | 6.4 | 13 |
| 158 | The transatlantic dust transport from North Africa to the Americas - Its characteristics and source regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 11,231-11,252 | 4.4 | 25 |
| 157 | Stratosphere-Troposphere exchange (STE) in the vicinity of North Atlantic cyclones. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10939-10953 | 6.8 | 15 |
| 156 | Verification of North Atlantic warm conveyor belt outflows in ECMWF forecasts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 1333-1344 | 6.4 | 12 |
| 155 | A Lagrangian investigation of hot and cold temperature extremes in Europe. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 98-108 | 6.4 | 62 |
| 154 | Diabatic Rossby waves in the Southern Hemisphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 3106-3117 | 6.4 | 3 |
| 153 | Climatology of potential vorticity streamers and associated isentropic transport pathways across PV gradient barriers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 3802-3821 | 4.4 | 25 |
| 152 | The LAGRANTO Lagrangian analysis tool -version 2.0. <i>Geoscientific Model Development</i> , 2015 , 8, 2569-2586 | 6.3 | 189 |
| 151 | DYNAMICAL METEOROLOGY Quasigeostrophic Theory 2015 , 393-403 | | 3 |
| 150 | Mechanisms underlying temperature extremes in Iberia: a Lagrangian perspective. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2015 , 67, 26032 | 2 | 11 |

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| 149 | Pollution patterns in the upper troposphere over Europe and Asia observed by CARIBIC. <i>Atmospheric Environment</i> , 2014 , 96, 245-256 | 5.3 | 3 |
| 148 | Estimates of background surface ozone concentrations in the United States based on model-derived source apportionment. <i>Atmospheric Environment</i> , 2014 , 84, 275-288 | 5.3 | 55 |
| 147 | How important is intensified evaporation for Mediterranean precipitation extremes?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5240-5256 | 4.4 | 47 |
| 146 | On the linkage between the Asian summer monsoon and tropopause fold activity over the eastern Mediterranean and the Middle East. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3202-3214 | 4.4 | 44 |
| 145 | On the Co-Occurrence of Warm Conveyor Belt Outflows and PV Streamers*. <i>Journals of the Atmospheric Sciences</i> , 2014 , 71, 3668-3673 | 2.1 | 16 |
| 144 | Comparison of Fast In situ Stratospheric Hygrometer (FISH) measurements of water vapor in the upper troposphere and lower stratosphere (UTLS) with ECMWF (re)analysis data. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10803-10822 | 6.8 | 19 |
| 143 | Comparison of Eulerian and Lagrangian moisture source diagnostics of the flood event in eastern Europe in May 2010. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6605-6619 | 6.8 | 42 |
| 142 | A global climatology of stratosphere-troposphere exchange using the ERA-Interim data set from 1979 to 2011. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 913-937 | 6.8 | 166 |
| 141 | Deuterium excess as a proxy for continental moisture recycling and plant transpiration. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4029-4054 | 6.8 | 112 |
| 140 | 3-D model simulations of dynamical and microphysical interactions in pyroconvective clouds under idealized conditions. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7573-7583 | 6.8 | 17 |
| 139 | A new circulation type classification based upon Lagrangian air trajectories. <i>Frontiers in Earth Science</i> , 2014 , 2, | 3.5 | 5 |
| 138 | Atmospheric processes triggering the central European floods in June 2013. <i>Natural Hazards and Earth System Sciences</i> , 2014 , 14, 1691-1702 | 3.9 | 88 |
| 137 | The Role of Extratropical Cyclones and Fronts for Southern Ocean Freshwater Fluxes. <i>Journal of Climate</i> , 2014 , 27, 6205-6224 | 4.4 | 51 |
| 136 | HyMeX: A 10-Year Multidisciplinary Program on the Mediterranean Water Cycle. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 1063-1082 | 6.1 | 254 |
| 135 | The Linkage between the Warm and the Cold Conveyor Belts in an Idealized Extratropical Cyclone*. <i>Journals of the Atmospheric Sciences</i> , 2014 , 71, 1443-1459 | 2.1 | 31 |
| 134 | Warm Conveyor Belts in the ERA-Interim Dataset (1979-2010). Part I: Climatology and Potential Vorticity Evolution. <i>Journal of Climate</i> , 2014 , 27, 3-26 | 4.4 | 170 |
| 133 | The dichotomous structure of the warm conveyor belt. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014 , 140, 1809-1824 | 6.4 | 36 |
| 132 | Planning aircraft measurements within a warm conveyor belt. <i>Weather</i> , 2014 , 69, 161-166 | 0.9 | 18 |

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| 131 | Warm Conveyor Belts in the ERA-Interim Dataset (1979-2010). Part II: Moisture Origin and Relevance for Precipitation. <i>Journal of Climate</i> , 2014 , 27, 27-40 | 4.4 | 125 |
| 130 | Warm Conveyor Belts in Idealized Moist Baroclinic Wave Simulations*. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 627-652 | 2.1 | 62 |
| 129 | IMILAST: A Community Effort to Intercompare Extratropical Cyclone Detection and Tracking Algorithms. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 529-547 | 6.1 | 308 |
| 128 | A 10-yr Climatology of Diabatic Rossby Waves in the Northern Hemisphere. <i>Monthly Weather Review</i> , 2013 , 141, 1139-1154 | 2.4 | 27 |
| 127 | A Global Climatology of Tropical Moisture Exports. <i>Journal of Climate</i> , 2013 , 26, 3031-3045 | 4.4 | 69 |
| 126 | A bulk parametrization of melting snowflakes with explicit liquid water fraction for the COSMO model. <i>Geoscientific Model Development</i> , 2013 , 6, 1925-1939 | 6.3 | 18 |
| 125 | An online trajectory module (version 1.0) for the nonhydrostatic numerical weather prediction model COSMO. <i>Geoscientific Model Development</i> , 2013 , 6, 1989-2004 | 6.3 | 35 |
| 124 | The role of upper-level dynamics and surface processes for the Pakistan flood of July 2010. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013 , 139, 1780-1797 | 6.4 | 93 |
| 123 | Are Greenhouse Gas Signals of Northern Hemisphere winter extra-tropical cyclone activity dependent on the identification and tracking algorithm?. <i>Meteorologische Zeitschrift</i> , 2013 , 22, 61-68 | 3.1 | 67 |
| 122 | Microphysical and radiative changes in cirrus clouds by geoengineering the stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4533-4548 | 4.4 | 23 |
| 121 | Tropopause level Rossby wave breaking in the Northern Hemisphere: a feature-based validation of the ECHAM5-HAM climate model. <i>International Journal of Climatology</i> , 2013 , 33, 3073-3082 | 3.5 | 10 |
| 120 | Identification of glacial meltwater runoff in a karstic environment and its implication for present and future water availability. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 3261-3277 | 5.5 | 33 |
| 119 | Meteorological influences on the incidence of aneurysmal subarachnoid hemorrhage - a single center study of 511 patients. <i>PLoS ONE</i> , 2013 , 8, e81621 | 3.7 | 8 |
| 118 | Spatial coherency of extreme weather events in Germany and Switzerland. <i>International Journal of Climatology</i> , 2012 , 32, 1863-1874 | 3.5 | 14 |
| 117 | A Case Study of High-Impact Wet Snowfall in Northwest Germany (25-27 November 2005): Observations, Dynamics, and Forecast Performance. <i>Weather and Forecasting</i> , 2012 , 27, 1217-1234 | 2.1 | 16 |
| 116 | Quantifying the relevance of atmospheric blocking for co-located temperature extremes in the Northern Hemisphere on (sub-)daily time scales. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a | 4.9 | 168 |
| 115 | Quantifying the importance of stratospheric-tropospheric transport on surface ozone concentrations at high- and low-elevation monitoring sites in the United States. <i>Atmospheric Environment</i> , 2012 , 62, 646-656 | 5.3 | 46 |
| 114 | Quantifying the Relevance of Cyclones for Precipitation Extremes. <i>Journal of Climate</i> , 2012 , 25, 6770-6784 | 4.0 | 197 |

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| 113 | Influence of microphysical processes on the potential vorticity development in a warm conveyor belt: a case-study with the limited-area model COSMO. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012 , 138, 407-418 | 6.4 | 98 |
| 112 | Impact of North Atlantic evaporation hot spots on southern Alpine heavy precipitation events. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012 , 138, 1245-1258 | 6.4 | 55 |
| 111 | A PV Perspective on the Vertical Structure of Mature Midlatitude Cyclones in the Northern Hemisphere. <i>Journals of the Atmospheric Sciences</i> , 2012 , 69, 725-740 | 2.1 | 72 |
| 110 | A Trajectory-Based Investigation of Physical and Dynamical Processes That Govern the Temporal Evolution of the Subtropical Jet Streams over Africa. <i>Journals of the Atmospheric Sciences</i> , 2012 , 69, 1602-1616 ⁸ | 2.1 | 16 ⁸ |
| 109 | Measuring variations of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ in atmospheric water vapour using two commercial laser-based spectrometers: an instrument characterisation study. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 1491-1511 | 4 | 91 |
| 108 | Measuring variations of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ in atmospheric water vapour using laser spectroscopy: an instrument characterisation study 2012 , | | 3 |
| 107 | The 1-way on-line coupled atmospheric chemistry model system MECO(n) [Part 3: Meteorological evaluation of the on-line coupled system. <i>Geoscientific Model Development</i> , 2012 , 5, 129-147 | 6.3 | 11 |
| 106 | Detection, tracking and event localization of jet stream features in 4-D atmospheric data. <i>Geoscientific Model Development</i> , 2012 , 5, 457-470 | 6.3 | 20 |
| 105 | The Mineral Dust Cycle in EMAC 2.40: sensitivity to the spectral resolution and the dust emission scheme. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1611-1627 | 6.8 | 25 |
| 104 | The isotopic composition of precipitation from a winter storm: a case study with the limited-area model COSMO-iso. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1629-1648 | 6.8 | 58 |
| 103 | Classification of precipitation events with a convective response timescale and their forecasting characteristics. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 36 |
| 102 | Life Cycle Study of a Diabatic Rossby Wave as a Precursor to Rapid Cyclogenesis in the North Atlantic Dynamics and Forecast Performance. <i>Monthly Weather Review</i> , 2011 , 139, 1861-1878 | 2.4 | 29 |
| 101 | Verification of quantitative precipitation forecasts on short time-scales: A fuzzy approach to handle timing errors with SAL. <i>Meteorologische Zeitschrift</i> , 2011 , 20, 95-105 | 3.1 | 11 |
| 100 | The importance of stratospheric-tropospheric transport in affecting surface ozone concentrations in the western and northern tier of the United States. <i>Atmospheric Environment</i> , 2011 , 45, 4845-4857 | 5.3 | 67 |
| 99 | The Convective and Orographically-induced Precipitation Study (COPS): the scientific strategy, the field phase, and research highlights. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011 , 137, 3-30 | 6.4 | 149 |
| 98 | Airborne lidar observations in the inflow region of a warm conveyor belt. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011 , 137, 1257-1272 | 6.4 | 20 |
| 97 | The key role of diabatic processes in modifying the upper-tropospheric wave guide: a North Atlantic case-study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011 , 137, 2174-2193 | 6.4 | 153 |
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