Riwal Plougonven

List of Publications by Year
in descending order

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63	2,128	236925	243625
papers	citations	25 h-index	44 g-index

65	65	65	1678
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Observed and Modeled Mountain Waves from the Surface to the Mesosphere near the Drake Passage. Journals of the Atmospheric Sciences, 2022, 79, 909-932.	1.7	19
2	How Skillful Are the European Subseasonal Predictions of Wind Speed and Surface Temperature?. Monthly Weather Review, 2022, 150, 1621-1637.	1.4	4
3	Using Machine-Learning Methods to Improve Surface Wind Speed from the Outputs of a Numerical Weather Prediction Model. Boundary-Layer Meteorology, 2021, 179, 133-161.	2.3	6
4	Observation of Gravity Waves at the Tropical Tropopause Using Superpressure Balloons. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035165.	3.3	20
5	Bimodality in ensemble forecasts of 2â€‰m temperature: identification. Weather and Climate Dynamics, 2021, 2, 1209-1224.	3.5	1
6	Sub-hourly forecasting of wind speed and wind energy. Renewable Energy, 2020, 145, 2373-2379.	8.9	73
7	Application of the Compressible, Nonhydrostatic, Balanced Omega Equation in Estimating Diabatic Forcing for Parameterization of Inertiaâ€“Gravity Waves: Case Study of Moist Baroclinic Waves Using WRF. Journals of the Atmospheric Sciences, 2020, 77, 113-129.	1.7	2
8	Probabilistic wind forecasting up to three months ahead using ensemble predictions for geopotential height. International Journal of Forecasting, 2020, 36, 515-530.	6.5	8
9	Measuring the Risk of Supply and Demand Imbalance at the Monthly to Seasonal Scale in France. Energies, 2020, 13, 4888.	3.1	1
10	How does knowledge of atmospheric gravity waves guide their parameterizations?. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1529-1543.	2.7	40
11	Lagrangian gravity wave spectra in the lower stratosphere of current (re)analyses. Atmospheric Chemistry and Physics, 2020, 20, 9331-9350.	4.9	8
12	The Spatiotemporal Variability of Nonorographic Gravity Wave Energy and Relation to Its Source Functions. Monthly Weather Review, 2020, 148, 4837-4857.	1.4	1
13	Accuracy of Balloon Trajectory Forecasts in the Lower Stratosphere. Atmosphere, 2019, 10, 102.	2.3	4
14	Response of Surface Wind Divergence to Mesoscale SST Anomalies under Different Wind Conditions. Journals of the Atmospheric Sciences, 2019, 76, 2065-2082.	1.7	20
15	Storm Track Response to Oceanic Eddies in Idealized Atmospheric Simulations. Journal of Climate, 2019, 32, 445-463.	3.2	41
16	An adiabatic foehn mechanism. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1369-1381.	2.7	5
17	Comments on â€œThe Gulf Stream Convergence Zone in the Time-Mean Windsâ€• Journals of the Atmospheric Sciences, 2018, 75, 2139-2149.	1.7	23
18	Impact of gravity waves on the motion and distribution of atmospheric ice particles. Atmospheric Chemistry and Physics, 2018, 18, 10799-10823.	4.9	23

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19	From Numerical Weather Prediction Outputs to Accurate Local Surface Wind Speed: Statistical Modeling and Forecasts. Springer Proceedings in Mathematics and Statistics, 2018, , 23-44.	0.2	8
20	Around the World in 84 Days. Eos, 2018, 99, .	0.1	25
21	On the Relation between Gravity Waves and Wind Speed in the Lower Stratosphere over the Southern Ocean. Journals of the Atmospheric Sciences, 2017, 74, 1075-1093.	1.7	28
22	Using Space Lidar Observations to Decompose Longwave Cloud Radiative Effect Variations Over the Last Decade. Geophysical Research Letters, 2017, 44, 11,994.	4.0	10
23	On the Quantification of Imbalance and Inertiaâ€“Gravity Waves Generated in Numerical Simulations of Moist Baroclinic Waves Using the WRF Model. Journals of the Atmospheric Sciences, 2017, 74, 4241-4263.	1.7	7
24	Small-Scale Wind Fluctuations in the Tropical Tropopause Layer from Aircraft Measurements: Occurrence, Nature, and Impact on Vertical Mixing. Journals of the Atmospheric Sciences, 2017, 74, 3847-3869.	1.7	23
25	Modelling the variability of the wind energy resource on monthly and seasonal timescales. Renewable Energy, 2017, 113, 1434-1446.	8.9	18
26	On the Gravity Wave Forcing during the Southern Stratospheric Final Warming in LMDZ. Journals of the Atmospheric Sciences, 2016, 73, 3213-3226.	1.7	31
27	On the Prediction of Stratospheric Balloon Trajectories: Improving Winds with Mesoscale Simulations. Journal of Atmospheric and Oceanic Technology, 2016, 33, 1629-1647.	1.3	7
28	A modelling case study of a large-scale cirrus in the tropical tropopause layer. Atmospheric Chemistry and Physics, 2016, 16, 3881-3902.	4.9	9
29	Effect of gravity wave temperature fluctuations on homogeneous ice nucleation in the tropical tropopause layer. Atmospheric Chemistry and Physics, 2016, 16, 35-46.	4.9	51
30	Generation and backreaction of spontaneously emitted inertiaâ€gravity waves. Geophysical Research Letters, 2016, 43, 3519-3525.	4.0	11
31	Lagrangian temperature and vertical velocity fluctuations due to gravity waves in the lower stratosphere. Geophysical Research Letters, 2016, 43, 3543-3553.	4.0	70
32	Gravity Waves Generated by Jets and Fronts and Their Relevance for Clear-Air Turbulence. , 2016, , 385-406.		7
33	Comparison of Gravity Waves in the Southern Hemisphere Derived from Balloon Observations and the ECMWF Analyses. Journals of the Atmospheric Sciences, 2015, 72, 3449-3468.	1.7	75
34	Case studies of nonorographic gravity waves over the Southern Ocean emphasize the role of moisture. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1278-1299.	3.3	19
35	Internal gravity waves from atmospheric jets and fronts. Reviews of Geophysics, 2014, 52, 33-76.	23.0	294
36	Structure, Energy, and Parameterization of Inertiaâ€“Gravity Waves in Dry and Moist Simulations of a Baroclinic Wave Life Cycle. Journals of the Atmospheric Sciences, 2014, 71, 2390-2414.	1.7	26

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37	Assessment of the accuracy of (re)analyses in the equatorial lower stratosphere. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,166.	3.3	54
38	Inertial versus baroclinic instability of the Bickley jet in continuously stratified rotating fluid. Journal of Fluid Mechanics, 2014, 743, 1-31.	3.4	22
39	Gravity waves over Antarctica and the Southern Ocean: consistent momentum fluxes in mesoscale simulations and stratospheric balloon observations. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 101-118.	2.7	83
40	Atmospheric response to sea surface temperature mesoscale structures. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9611-9621.	3.3	45
41	Gravity waves generated by deep tropical convection: Estimates from balloon observations and mesoscale simulations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9690-9707.	3.3	52
42	On the Intermittency of Gravity Wave Momentum Flux in the Stratosphere. Journals of the Atmospheric Sciences, 2012, 69, 3433-3448.	1.7	113
43	Gravity Waves Generated by Sheared Three-Dimensional Potential Vorticity Anomalies. Journals of the Atmospheric Sciences, 2012, 69, 2134-2151.	1.7	28
44	Internal gravity waves convectively forced in the atmospheric residual layer during the morning transition. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1610-1624.	2.7	18
45	Sensitivity study for mesoscale simulations of gravity waves above Antarctica during Vorcore. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 1371-1377.	2.7	9
46	Quasigeostrophic Dynamics of a Finite-Thickness Tropopause. Journals of the Atmospheric Sciences, 2010, 67, 3149-3163.	1.7	8
47	Gravity Waves Generated by Sheared Potential Vorticity Anomalies. Journals of the Atmospheric Sciences, 2010, 67, 157-170.	1.7	34
48	Nonlinear development of inertial instability in a barotropic shear. Physics of Fluids, 2009, 21, .	4.0	33
49	Comments on â€œApplication of the Lighthillâ€“Ford Theory of Spontaneous Imbalance to Clear-Air Turbulence Forecastingâ€. Journals of the Atmospheric Sciences, 2009, 66, 2506-2510.	1.7	10
50	Mechanisms for Spontaneous Gravity Wave Generation within a Dipole Vortex. Journals of the Atmospheric Sciences, 2009, 66, 3464-3478.	1.7	33
51	Ageostrophic instabilities of fronts in a channel in a stratified rotating fluid. Journal of Fluid Mechanics, 2009, 627, 485-507.	3.4	24
52	Instabilities of two-layer shallow-water flows with vertical shear in the rotating annulus. Journal of Fluid Mechanics, 2009, 638, 27-47.	3.4	13
53	Inertiaâ€“Gravity Waves Generated within a Dipole Vortex. Journals of the Atmospheric Sciences, 2007, 64, 4417-4431.	1.7	68
54	Inertiaâ€“Gravity Waves Spontaneously Generated by Jets and Fronts. Part I: Different Baroclinic Life Cycles. Journals of the Atmospheric Sciences, 2007, 64, 2502-2520.	1.7	182

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55	On the Forcing of Inertiaâ€“Gravity Waves by Synoptic-Scale Flows. Journals of the Atmospheric Sciences, 2007, 64, 1737-1742.	1.7	31
56	A Baroclinic Instability that Couples Balanced Motions and Gravity Waves. Journals of the Atmospheric Sciences, 2005, 62, 1545-1559.	1.7	44
57	Lagrangian approach to geostrophic adjustment of frontal anomalies in a stratified fluid. Geophysical and Astrophysical Fluid Dynamics, 2005, 99, 101-135.	1.2	29
58	Numerical Simulations of Gravity Waves and Turbulence During the ATReC Campaign. , 2005, , .		2
59	Uncertainties in using the hodograph method to retrieve gravity wave characteristics from individual soundings. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	41
60	Observations and Numerical Simulations of Inertiaâ€“Gravity Waves and Shearing Instabilities in the Vicinity of a Jet Stream. Journals of the Atmospheric Sciences, 2004, 61, 2692-2706.	1.7	72
61	On periodic inertiaâ€“gravity waves of finite amplitude propagating without change of form at sharp density-gradient interfaces in the rotating fluid. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 314, 140-149.	2.1	7
62	Singularity formation during relaxation of jets and fronts toward the state of geostrophic equilibrium. Communications in Nonlinear Science and Numerical Simulation, 2003, 8, 415-442.	3.3	12
63	Frontal geostrophic adjustment, slow manifold and nonlinear wave phenomena in one-dimensional rotating shallow water. Part 1. Theory. Journal of Fluid Mechanics, 2003, 481, 269-290.	3.4	41