

Timothy Dunkerton

List of Publications by Citations

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34
papers

4,157
citations

25
h-index

34
g-index

34
ext. papers

4,518
ext. citations

4.5
avg, IF

5.22
L-index

#	Paper	IF	Citations
34	The quasi-biennial oscillation. <i>Reviews of Geophysics</i> , 2001 , 39, 179-229	23.1	1337
33	Tropical tropopause layer. <i>Reviews of Geophysics</i> , 2009 , 47,	23.1	701
32	The role of gravity waves in the quasi-biennial oscillation. <i>Journal of Geophysical Research</i> , 1997 , 102, 26053-26076		305
31	Climatology of the semiannual oscillation of the tropical middle atmosphere. <i>Journal of Geophysical Research</i> , 1997 , 102, 26019-26032		199
30	A Spectral Parameterization of Mean-Flow Forcing due to Breaking Gravity Waves. <i>Journals of the Atmospheric Sciences</i> , 1999 , 56, 4167-4182	2.1	168
29	Climatology of the Equatorial Lower Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 1985 , 42, 376-396		135
28	Estimates of momentum flux associated with equatorial Kelvin and gravity waves. <i>Journal of Geophysical Research</i> , 1997 , 102, 26247-26261		131
27	Vertical velocity, vertical diffusion, and dilution by midlatitude air in the tropical lower stratosphere. <i>Journal of Geophysical Research</i> , 1998 , 103, 8651-8666		122
26	The Roles of Equatorial Trapped Waves and Internal Inertia Gravity Waves in Driving the Quasi-Biennial Oscillation. Part I: Zonal Mean Wave Forcing. <i>Journals of the Atmospheric Sciences</i> , 2010 , 67, 963-980	2.1	110
25	Evolution of potential vorticity in the winter stratosphere of January-February 1979. <i>Journal of Geophysical Research</i> , 1986 , 91, 1199		101
24	Seasonal Variation of the Semiannual Oscillation. <i>Journals of the Atmospheric Sciences</i> , 1988 , 45, 2772-2787		84
23	Observation of 30-Day Meridional Wind Oscillations over the Tropical Pacific, 1973-1992: Horizontal Structure and Propagation. <i>Journals of the Atmospheric Sciences</i> , 1995 , 52, 1585-1601	2.1	73
22	Nonlinear Propagation of Zonal Winds in an Atmosphere with Newtonian Cooling and Equatorial Wavedriving. <i>Journals of the Atmospheric Sciences</i> , 1991 , 48, 236-263	2.1	73
21	The Role of the Seasonal Cycle in the Quasi-biennial Oscillation Of Ozone. <i>Journals of the Atmospheric Sciences</i> , 1990 , 47, 2429-2452	2.1	72
20	Annual Variation of Deseasonalized Mean Flow Acceleration in the Equatorial Lower Stratosphere. <i>Journal of the Meteorological Society of Japan</i> , 1990 , 68, 499-508	2.8	60
19	Quasi-Biennial and Subbiennial Variations of Stratospheric Trace Constituents Derived from HALOE Observations. <i>Journals of the Atmospheric Sciences</i> , 2001 , 58, 7-25	2.1	57
18	Orthogonal Rotation of Spatial Patterns Derived from Singular Value Decomposition Analysis. <i>Journal of Climate</i> , 1995 , 8, 2631-2643	4.4	51

17	Wave Transience in a Compressible Atmosphere. Part I: Transient Internal Wave, Mean-Flow Interaction. <i>Journals of the Atmospheric Sciences</i> , 1981 , 38, 281-297	2.1	51
16	Interaction of the quasi-biennial oscillation and stratopause semiannual oscillation. <i>Journal of Geophysical Research</i> , 1997 , 102, 26107-26116		50
15	A Barotropic Model of the Angular Momentum-Conserving Potential Vorticity Staircase in Spherical Geometry. <i>Journals of the Atmospheric Sciences</i> , 2008 , 65, 1105-1136	2.1	42
14	Observation of 38-Day Meridional Wind Oscillations over the Tropical Pacific, 1973-1992: Vertical Structure and Interannual Variability. <i>Journals of the Atmospheric Sciences</i> , 1993 , 50, 3292-3307	2.1	41
13	The Roles of Equatorial Trapped Waves and Internal Inertia-Gravity Waves in Driving the Quasi-Biennial Oscillation. Part II: Three-Dimensional Distribution of Wave Forcing. <i>Journals of the Atmospheric Sciences</i> , 2010 , 67, 981-997	2.1	36
12	Extratropical Impacts on Atlantic Tropical Cyclone Activity. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 1401-1418	2.1	35
11	The quasi-biennial oscillation of 2015-2016: Hiccup or death spiral?. <i>Geophysical Research Letters</i> , 2016 , 43, 10,547	4.9	29
10	Midwinter Deceleration of the Subtropical Mesospheric Jet and Interannual Variability of the High-Latitude Flow in UKMO Analyses. <i>Journals of the Atmospheric Sciences</i> , 2000 , 57, 3838-3855	2.1	26
9	Mixing zone in the tropical stratosphere above 10 mb. <i>Geophysical Research Letters</i> , 1996 , 23, 2497-2500	4.9	13
8	Body force circulations in a compressible atmosphere: Key concepts. <i>Pure and Applied Geophysics</i> , 1989 , 130, 243-262	2.2	13
7	Nearly identical cycles of the quasi-biennial oscillation in the equatorial lower stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8467-8493	4.4	11
6	Intensity variation and coherence of 38 day equatorial waves. <i>Geophysical Research Letters</i> , 1991 , 18, 1469-1472	4.9	10
5	Inferences about QBO Dynamics from the Atmospheric Tape Recorder Effect. <i>Journals of the Atmospheric Sciences</i> , 2000 , 57, 230-246	2.1	7
4	ENSO Modulation of the QBO: Results from MIROC Models with and without Nonorographic Gravity Wave Parameterization. <i>Journals of the Atmospheric Sciences</i> , 2019 , 76, 3893-3917	2.1	6
3	Summertime stationary waves integrate tropical and extratropical impacts on tropical cyclone activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22720-22725	11.5	5
2	Vertical structure of tropospheric winds on gas giants. <i>Geophysical Research Letters</i> , 2017 , 44, 3073-3081	4.9	3
1	Sphere-Filling Asymptotics of the Barotropic Potential Vorticity Staircase. <i>Journals of the Atmospheric Sciences</i> , 2018 , 75, 497-511	2.1	