Timothy Dowling

List of Publications by Year in descending order

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52 2,736 26 44
papers citations h-index g-index

56 56 56 1835
all docs docs citations times ranked citing authors

#	Article	IF	Citations
1	Asymmetrical meridional expansion of bright clouds from Saturn's 2010 great white storm. Icarus, 2021, 369, 114650.	2.5	1
2	Jupiter-style Jet Stability. Planetary Science Journal, 2020, 1, 6.	3.6	9
3	Ertel Potential Vorticity versus Bernoulli Potential on Approximately Neutral Surfaces in the Antarctic Circumpolar Current. Journal of Physical Oceanography, 2020, 50, 2621-2648.	1.7	4
4	Berry's lesson for Lamb. Nature Physics, 2019, 15, 734-735.	16.7	0
5	Dynamical regimes of giant planet polar vortices. Icarus, 2019, 323, 46-61.	2.5	33
6	Ertel potential vorticity versus Bernoulli streamfunction on Mars. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 37-52.	2.7	4
7	The libRadtran software package for radiative transfer calculations (version 2.0.1). Geoscientific Model Development, 2016, 9, 1647-1672.	3.6	447
8	Ertel potential vorticity versus <scp>B</scp> ernoulli streamfunction in earth's extratropical atmosphere. Journal of Advances in Modeling Earth Systems, 2015, 7, 437-458.	3.8	5
9	SATURN'S LONGITUDE: RISE OF THE SECOND BRANCH OF SHEAR-STABILITY THEORY AND FALL OF THE FIRST. International Journal of Modern Physics D, 2014, 23, 1430006.	2.1	14
10	3D Modeling of interactions between Jupiter's ammonia clouds and large anticyclones. Icarus, 2014, 232, 141-156.	2.5	18
11	Earth as a Planet. , 2014, , 423-444.		3
12	Jupiter's Great Red Spot: Fine-scale matches of model vorticity patterns to prevailing cloud patterns. Icarus, 2013, 225, 216-227.	2.5	10
13	Earth General Circulation Models. , 2013, , .		2
14	Using 3D finite volume for the pressureâ€gradient force in atmospheric models. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 2126-2135.	2.7	2
15	Emergence of polar-jet polygons from jet instabilities in a Saturn model. Icarus, 2011, 211, 1284-1293.	2.5	19
16	New secondary-scattering correction in DISORT with increased efficiency for forward scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2028-2034.	2.3	96
17	Jupiter's South South Temperate Zone vortices: Observations and simulations. Icarus, 2010, 206, 747-754.	2.5	3
18	Saturn's rotation period from its atmospheric planetary-wave configuration. Nature, 2009, 460, 608-610.	27.8	105

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19	Addition of water and ammonia cloud microphysics to the EPIC model. Icarus, 2008, 194, 303-326.	2.5	26
20	Music of the stratospheres. Nature, 2008, 453, 163-164.	27.8	6
21	The Emergence of Multiple Robust Zonal Jets from Freely Evolving, Three-Dimensional Stratified Geostrophic Turbulence with Applications to Jupiter. Journals of the Atmospheric Sciences, 2008, 65, 3947-3962.	1.7	28
22	Effects of topography on the spin-up of a Venus atmospheric model. Journal of Geophysical Research, 2007, 112, .	3.3	32
23	Earth as a Planet: Atmosphere and Oceans. , 2007, , 169-188.		2
24	The EPIC atmospheric model with an isentropic/terrain-following hybrid vertical coordinate. Icarus, 2006, 182, 259-273.	2.5	43
25	Simulations of high-latitude spots on Jupiter: Constraints on vortex strength and the deep wind. Planetary and Space Science, 2005, 53, 1221-1233.	1.7	8
26	Jupiter's 24° N highest speed jet: Vertical structure deduced from nonlinear simulations of a large-amplitude natural disturbance. Icarus, 2005, 176, 272-282.	2.5	27
27	EPIC simulations of the merger of Jupiter's White Ovals BE and FA: altitude-dependent behavior. Icarus, 2003, 166, 63-74.	2.5	26
28	Coordinated 1996 HST and IRTF Imaging of Neptune and Triton III. Neptune's Atmospheric Circulation and Cloud Structure. Icarus, 2001, 149, 459-488.	2.5	80
29	Neptune's Atmospheric Circulation and Cloud Morphology: Changes Revealed by 1998 HST Imaging. Icarus, 2001, 150, 244-260.	2.5	48
30	EPIC Simulations of Bright Companions to Neptune's Great Dark Spots. Icarus, 2001, 151, 275-285.	2.5	43
31	Nonlinear Simulations of Jupiter's 5-Micron Hot Spots. Science, 2000, 289, 1737-1740.	12.6	127
32	Nonlinear simulations of Jupiter's 5-micron hot spots. Science, 2000, 289, 1737-40.	12.6	70
33	The Explicit Planetary Isentropic-Coordinate (EPIC) Atmospheric Model. Icarus, 1998, 132, 221-238.	2.5	127
34	EPIC Simulations of Time-Dependent, Three-Dimensional Vortices with Application to Neptune's Great Dark Spot. Icarus, 1998, 132, 239-265.	2.5	64
35	Jupiter: Atmosphere. , 1997, , 367-371.		0
36	Jupiter's Tropospheric Thermal Emission. I. Observations and Techniques. Icarus, 1996, 124, 22-31.	2.5	7

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37	Jupiter's Tropospheric Thermal Emission. II. Power Spectrum Analysis and Wave Search. Icarus, 1996, 124, 32-44.	2.5	24
38	Estimate of Jupiter's Deep Zonal-Wind Profile from Shoemaker-Levy 9 Data and Arnol'd's Second Stability Criterion. Icarus, 1995, 117, 439-442.	2.5	47
39	HST imaging of atmospheric phenomena created by the impact of comet Shoemaker-Levy 9. Science, 1995, 267, 1288-1296.	12.6	206
40	Collision of comet Shoemaker-Levy 9 with Jupiter observed by the NASA infrared telescope facility. Science, 1995, 267, 1277-1282.	12.6	68
41	Dynamics of Jovian Atmospheres. Annual Review of Fluid Mechanics, 1995, 27, 293-334.	25.0	96
42	Dynamic response of Jupiter's atmosphere to the impact of comet Shoemaker–Levy 9. Nature, 1994, 368, 525-527.	27.8	25
43	Atmospheric gravity waves from the impact of comet Shoemaker-Levy 9 with Jupiter. Geophysical Research Letters, 1994, 21, 1083-1086.	4.0	31
44	Successes and failures of shallow-water interpretations of Voyager wind data. Chaos, 1994, 4, 213-225.	2.5	4
45	Jupiter's winds and Arnol'd's second stability theorem: Slowly moving waves and neutral stability. Journal of Geophysical Research, 1993, 98, 18847-18855.	3.3	17
46	A Relationship between Potential Vorticity and Zonal Wind on Jupiter. Journals of the Atmospheric Sciences, 1993, 50, 14-22.	1.7	35
47	Stellar and Jovian Vortices. Annals of the New York Academy of Sciences, 1990, 617, 190-216.	3.8	14
48	Jupiter's Great Red Spot as a Shallow Water System. Journals of the Atmospheric Sciences, 1989, 46, 3256-3278.	1.7	143
49	Potential Vorticity and Layer Thickness Variations in the Flow around Jupiter's Great Red Spot and White Oval BC. Journals of the Atmospheric Sciences, 1988, 45, 1380-1396.	1.7	79
50	Voyager 2 in the Uranian System: Imaging Science Results. Science, 1986, 233, 43-64.	12.6	406
51	Oceans., 0,,.		O
52	Evolution of Jupiterâ€style critical latitudes: Initial laboratory altimetry results. Journal of Geophysical Research E: Planets, 0, , .	3.6	0