

Timothy Dowling

List of Publications by Citations

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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.

47
papers

2,166
citations

24
h-index

46
g-index

56
ext. papers

2,440
ext. citations

10.5
avg, IF

4.72
L-index

#	Paper	IF	Citations
47	Voyager 2 in the uranian system: imaging science results. <i>Science</i> , 1986 , 233, 43-64	33.3	348
46	The libRadtran software package for radiative transfer calculations (version 2.0.1). <i>Geoscientific Model Development</i> , 2016 , 9, 1647-1672	6.3	290
45	HST imaging of atmospheric phenomena created by the impact of comet Shoemaker-Levy 9. <i>Science</i> , 1995 , 267, 1288-96	33.3	175
44	Jupiter's Great Red Spot as a Shallow Water System. <i>Journals of the Atmospheric Sciences</i> , 1989 , 46, 3256-3278	130	130
43	The Explicit Planetary Isentropic-Coordinate (EPIC) Atmospheric Model. <i>Icarus</i> , 1998 , 132, 221-238	3.8	110
42	Saturn's rotation period from its atmospheric planetary-wave configuration. <i>Nature</i> , 2009 , 460, 608-610	50.4	90
41	Dynamics of Jovian Atmospheres. <i>Annual Review of Fluid Mechanics</i> , 1995 , 27, 293-334	2.2	80
40	New secondary-scattering correction in DISORT with increased efficiency for forward scattering. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 2028-2034	2.1	73
39	Potential Vorticity and Layer Thickness Variations in the Flow around Jupiter's Great Red Spot and White Oval BC. <i>Journals of the Atmospheric Sciences</i> , 1988 , 45, 1380-1396	2.1	69
38	Nonlinear Simulations of Jupiter's 5-Micron Hot Spots. <i>Science</i> , 2000 , 289, 1737-1740	33.3	67
37	Nonlinear simulations of Jupiter's 5-micron hot spots. <i>Science</i> , 2000 , 289, 1737-40	33.3	67
36	Coordinated 1996 HST and IRTF Imaging of Neptune and Triton III. Neptune's Atmospheric Circulation and Cloud Structure. <i>Icarus</i> , 2001 , 149, 459-488	3.8	59
35	Collision of comet Shoemaker-Levy 9 with Jupiter observed by the NASA infrared telescope facility. <i>Science</i> , 1995 , 267, 1277-82	33.3	56
34	EPIC Simulations of Time-Dependent, Three-Dimensional Vortices with Application to Neptune's Great Dark Spot. <i>Icarus</i> , 1998 , 132, 239-265	3.8	51
33	Estimate of Jupiter's Deep Zonal-Wind Profile from Shoemaker-Levy 9 Data and Arnol'd's Second Stability Criterion. <i>Icarus</i> , 1995 , 117, 439-442	3.8	44
32	EPIC Simulations of Bright Companions to Neptune's Great Dark Spots. <i>Icarus</i> , 2001 , 151, 275-285	3.8	38
31	Neptune's Atmospheric Circulation and Cloud Morphology: Changes Revealed by 1998 HST Imaging. <i>Icarus</i> , 2001 , 150, 244-260	3.8	37

30	The EPIC atmospheric model with an isentropic/terrain-following hybrid vertical coordinate. <i>Icarus</i> , 2006 , 182, 259-273	3.8	33
29	Effects of topography on the spin-up of a Venus atmospheric model. <i>Journal of Geophysical Research</i> , 2007 , 112,		27
28	The Emergence of Multiple Robust Zonal Jets from Freely Evolving, Three-Dimensional Stratified Geostrophic Turbulence with Applications to Jupiter. <i>Journals of the Atmospheric Sciences</i> , 2008 , 65, 3947-3962	2.1	25
27	EPIC simulations of the merger of Jupiter's White Ovals BE and FA: altitude-dependent behavior. <i>Icarus</i> , 2003 , 166, 63-74	3.8	25
26	A Relationship between Potential Vorticity and Zonal Wind on Jupiter. <i>Journals of the Atmospheric Sciences</i> , 1993 , 50, 14-22	2.1	25
25	Atmospheric gravity waves from the impact of comet Shoemaker-Levy 9 with Jupiter. <i>Geophysical Research Letters</i> , 1994 , 21, 1083-1086	4.9	25
24	Jupiter's 24 th highest speed jet: Vertical structure deduced from nonlinear simulations of a large-amplitude natural disturbance. <i>Icarus</i> , 2005 , 176, 272-282	3.8	24
23	Dynamic response of Jupiter's atmosphere to the impact of comet Shoemaker-Levy 9. <i>Nature</i> , 1994 , 368, 525-527	5.4	24
22	Dynamical regimes of giant planet polar vortices. <i>Icarus</i> , 2019 , 323, 46-61	3.8	20
21	Jupiter's Tropospheric Thermal Emission. II. Power Spectrum Analysis and Wave Search. <i>Icarus</i> , 1996 , 124, 32-44	3.8	19
20	Addition of water and ammonia cloud microphysics to the EPIC model. <i>Icarus</i> , 2008 , 194, 303-326	3.8	18
19	3D Modeling of interactions between Jupiter's ammonia clouds and large anticyclones. <i>Icarus</i> , 2014 , 232, 141-156	3.8	17
18	Emergence of polar-jet polygons from jet instabilities in a Saturn model. <i>Icarus</i> , 2011 , 211, 1284-1293	3.8	15
17	Jupiter's winds and Arnol'd's second stability theorem: Slowly moving waves and neutral stability. <i>Journal of Geophysical Research</i> , 1993 , 98, 18847		13
16	Stellar and Jovian Vortices. <i>Annals of the New York Academy of Sciences</i> , 1990 , 617, 190-216	6.5	13
15	Jupiter's Great Red Spot: Fine-scale matches of model vorticity patterns to prevailing cloud patterns. <i>Icarus</i> , 2013 , 225, 216-227	3.8	9
14	SATURN'S LONGITUDE: RISE OF THE SECOND BRANCH OF SHEAR-STABILITY THEORY AND FALL OF THE FIRST. <i>International Journal of Modern Physics D</i> , 2014 , 23, 1430006	2.2	8
13	Simulations of high-latitude spots on Jupiter: Constraints on vortex strength and the deep wind. <i>Planetary and Space Science</i> , 2005 , 53, 1221-1233	2	7

12	Jupiter's Tropospheric Thermal Emission. I. Observations and Techniques. <i>Icarus</i> , 1996 , 124, 22-31	3.8	7
11	Successes and failures of shallow-water interpretations of Voyager wind data. <i>Chaos</i> , 1994 , 4, 213-225	3.3	4
10	Jupiter-style Jet Stability. <i>Planetary Science Journal</i> , 2020 , 1, 6	2.9	4
9	Jupiter's South South Temperate Zone vortices: Observations and simulations. <i>Icarus</i> , 2010 , 206, 747-754	3.8	3
8	Ertel potential vorticity versus Bernoulli streamfunction on Mars. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 37-52	6.4	2
7	Ertel potential vorticity versus Bernoulli streamfunction in earth's extratropical atmosphere. <i>Journal of Advances in Modeling Earth Systems</i> , 2015 , 7, 437-458	7.1	2
6	Earth as a Planet: Atmosphere and Oceans 2007 , 169-188		2
5	Earth as a Planet 2014 , 423-444		1
4	Using 3D finite volume for the pressure-gradient force in atmospheric models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012 , 138, 2126-2135	6.4	1
3	Jupiter		1
2	Ertel Potential Vorticity versus Bernoulli Potential on Approximately Neutral Surfaces in the Antarctic Circumpolar Current. <i>Journal of Physical Oceanography</i> , 2020 , 50, 2621-2648	2.4	0
1	Asymmetrical meridional expansion of bright clouds from Saturn's 2010 great white storm. <i>Icarus</i> , 2021 , 369, 114650	3.8	0