

David P Hinson

List of Publications by Year in descending order

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43
papers

2,002
citations

257450

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docs citations

45
times ranked

1566
citing authors

#	ARTICLE	IF	CITATIONS
1	Nighttime convection in water-ice clouds at high northern latitudes on Mars. <i>Icarus</i> , 2022, 371, 114693.	2.5	5
2	Detection of Radio Thermal Emission from the Kuiper Belt Object (486958) Arrokoth during the New Horizons Encounter. <i>Planetary Science Journal</i> , 2022, 3, 109.	3.6	3
3	Pre- and Post-entry, Descent and Landing Assessment of the Martian Atmosphere for the Mars 2020 Rover. <i>Planetary Science Journal</i> , 2022, 3, 147.	3.6	4
4	Baroclinic waves in the northern hemisphere of Mars as observed by the MRO Mars Climate Sounder and the MGS Thermal Emission Spectrometer. <i>Icarus</i> , 2021, 357, 114152.	2.5	14
5	MOSAIC: A Satellite Constellation to Enable Groundbreaking Mars Climate System Science and Prepare for Human Exploration. <i>Planetary Science Journal</i> , 2021, 2, 211.	3.6	6
6	Pluto's Ultraviolet Spectrum, Surface Reflectance, and Airglow Emissions. <i>Astronomical Journal</i> , 2020, 159, 274.	4.7	12
7	The martian daytime convective boundary layer: Results from radio occultation measurements and a mesoscale model. <i>Icarus</i> , 2019, 326, 105-122.	2.5	15
8	An upper limit on Pluto's ionosphere from radio occultation measurements with New Horizons. <i>Icarus</i> , 2018, 307, 17-24.	2.5	30
9	Bladed Terrain on Pluto: Possible origins and evolution. <i>Icarus</i> , 2018, 300, 129-144.	2.5	47
10	Structure and composition of Pluto's atmosphere from the New Horizons solar ultraviolet occultation. <i>Icarus</i> , 2018, 300, 174-199.	2.5	90
11	The Lyman- α Sky Background as Observed by New Horizons. <i>Geophysical Research Letters</i> , 2018, 45, 8022-8028.	4.0	19
12	Snow precipitation on Mars driven by cloud-induced night-time convection. <i>Nature Geoscience</i> , 2017, 10, 652-657.	12.9	32
13	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
14	Temperatures and aerosol opacities of the Mars atmosphere at aphelion: Validation and inter-comparison of limb sounding profiles from MRO/MCS and MGS/TES. <i>Icarus</i> , 2015, 251, 26-49.	2.5	16
15	Initial results from radio occultation measurements with the Mars Reconnaissance Orbiter: A nocturnal mixed layer in the tropics and comparisons with polar profiles from the Mars Climate Sounder. <i>Icarus</i> , 2014, 243, 91-103.	2.5	28
16	The dayside ionospheres of Mars and Venus: Comparing a one-dimensional photochemical model with MaRS (Mars Express) and VeRa (Venus Express) observations. <i>Icarus</i> , 2014, 233, 66-82.	2.5	47
17	A clear view of the multifaceted dayside ionosphere of Mars. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	42
18	Assessment of Environments for Mars Science Laboratory Entry, Descent, and Surface Operations. <i>Space Science Reviews</i> , 2012, 170, 793-835.	8.1	58

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19	A multi-year survey of dynamics near the surface in the northern hemisphere of Mars: Short-period baroclinic waves and dust storms. <i>Icarus</i> , 2012, 219, 307-320.	2.5	33
20	Assessment of Environments for Mars Science Laboratory Entry, Descent, and Surface Operations. , 2012, , 793-835.		4
21	The Radioscience Experiment on New Horizons. , 2011, , .		2
22	Further observations of regional dust storms and baroclinic eddies in the northern hemisphere of Mars. <i>Icarus</i> , 2010, 206, 290-305.	2.5	54
23	Atmospheric risk assessment for the Mars Science Laboratory Entry, Descent, and Landing system. , 2010, , .		14
24	New Horizons: Anticipated Scientific Investigations at the Pluto System. <i>Space Science Reviews</i> , 2008, 140, 93-127.	8.1	74
25	Global and seasonal distribution of gravity wave activity in Mars' lower atmosphere derived from MGS radio occultation data. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	81
26	Effects of Solar Flares on the Ionosphere of Mars. <i>Science</i> , 2006, 311, 1135-1138.	12.6	147
27	Ionospheric effects upon a satellite navigation system at Mars. <i>Radio Science</i> , 2004, 39, n/a-n/a.	1.6	34
28	Simultaneous ionospheric variability on Earth and Mars. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	61
29	Radio science observations with Mars Global Surveyor: Orbit insertion through one Mars year in mapping orbit. <i>Journal of Geophysical Research</i> , 2001, 106, 23327-23348.	3.3	98
30	Mars Global Surveyor radio science electron density profiles : Neutral atmosphere implications. <i>Geophysical Research Letters</i> , 2001, 28, 3091-3094.	4.0	154
31	A comparison of MGS Phase 1 aerobraking radio occultation data and the NASA Ames Mars GCM. <i>Journal of Geophysical Research</i> , 2000, 105, 17601-17615.	3.3	11
32	Jupiter's ionosphere: New results from Voyager 2 radio occultation measurements. <i>Journal of Geophysical Research</i> , 1998, 103, 9505-9520.	3.3	83
33	Sub-Fresnel-scale vertical resolution in atmospheric profiles from radio occultation. <i>Radio Science</i> , 1997, 32, 411-423.	1.6	96
34	Magellan Radio Occultation Measurements of Atmospheric Waves on Venus. <i>Icarus</i> , 1995, 114, 310-327.	2.5	97
35	Radio Occultation Studies of the Venus Atmosphere with the Magellan Spacecraft. <i>Icarus</i> , 1994, 110, 79-94.	2.5	92
36	Inertio-Gravity Waves in the Atmosphere of Neptune. <i>Icarus</i> , 1993, 105, 142-161.	2.5	20

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37	Radio science investigations with Mars Observer. <i>Journal of Geophysical Research</i> , 1992, 97, 7759-7779.	3.3	61
38	Equatorial waves in the stratosphere of Uranus. <i>Icarus</i> , 1991, 94, 64-91.	2.5	22
39	Past and future of radio occultation studies of planetary atmospheres. <i>Advances in Space Research</i> , 1987, 7, 29-32.	2.6	4
40	Strong scintillations during atmospheric occultations: Theoretical intensity spectra. <i>Radio Science</i> , 1986, 21, 257-270.	1.6	12
41	Magnetic field orientations in Saturn's upper ionosphere inferred from Voyager radio occultations. <i>Journal of Geophysical Research</i> , 1984, 89, 65-73.	3.3	10
42	Internal gravity waves in Titan's atmosphere observed by Voyager radio occultation. <i>Icarus</i> , 1983, 54, 337-352.	2.5	56
43	Spatial irregularities in Jupiter's upper ionosphere observed by Voyager radio occultations. <i>Journal of Geophysical Research</i> , 1982, 87, 5275-5289.	3.3	13