David P Hinson

List of Publications by Year
in descending order

43 papers	2,002 citations	257357 24 h-index	289141 40 g-index
45 all docs	45 docs citations	45 times ranked	1566 citing authors

#	Article	IF	Citations
1	The atmosphere of Pluto as observed by New Horizons. Science, 2016, 351, aad8866.	6.0	201
2	Mars Global Surveyor radio science electron density profiles : Neutral atmosphere implications. Geophysical Research Letters, 2001, 28, 3091-3094.	1.5	154
3	Effects of Solar Flares on the Ionosphere of Mars. Science, 2006, 311, 1135-1138.	6.0	147
4	Radio science observations with Mars Global Surveyor: Orbit insertion through one Mars year in mapping orbit. Journal of Geophysical Research, 2001, 106, 23327-23348.	3.3	98
5	Magellan Radio Occultation Measurements of Atmospheric Waves on Venus. Icarus, 1995, 114, 310-327.	1.1	97
6	Sub-Fresnel-scale vertical resolution in atmospheric profiles from radio occultation. Radio Science, 1997, 32, 411-423.	0.8	96
7	Radio Occultation Studies of the Venus Atmosphere with the Magellan Spacecraft. Icarus, 1994, 110, 79-94.	1.1	92
8	Structure and composition of Pluto's atmosphere from the New Horizons solar ultraviolet occultation. Icarus, 2018, 300, 174-199.	1.1	90
9	Jupiter's ionosphere: New results from Voyager 2 radio occultation measurements. Journal of Geophysical Research, 1998, 103, 9505-9520.	3.3	83
10	Global and seasonal distribution of gravity wave activity in Mars' lower atmosphere derived from MGS radio occultation data. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	81
11	New Horizons: Anticipated Scientific Investigations atÂtheÂPluto System. Space Science Reviews, 2008, 140, 93-127.	3.7	74
12	Radio science investigations with Mars Observer. Journal of Geophysical Research, 1992, 97, 7759-7779.	3.3	61
13	Simultaneous ionospheric variability on Earth and Mars. Journal of Geophysical Research, 2003, 108, .	3.3	61
14	Assessment of Environments for Mars Science Laboratory Entry, Descent, and Surface Operations. Space Science Reviews, 2012, 170, 793-835.	3.7	58
15	Internal gravity waves in Titan's atmosphere observed by Voyager radio occultation. Icarus, 1983, 54, 337-352.	1.1	56
16	Further observations of regional dust storms and baroclinic eddies in the northern hemisphere of Mars. Icarus, 2010, 206, 290-305.	1.1	54
17	The dayside ionospheres of Mars and Venus: Comparing a one-dimensional photochemical model with MaRS (Mars Express) and VeRa (Venus Express) observations. Icarus, 2014, 233, 66-82.	1.1	47
18	Bladed Terrain on Pluto: Possible origins and evolution. Icarus, 2018, 300, 129-144.	1.1	47

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19	A clear view of the multifaceted dayside ionosphere of Mars. Geophysical Research Letters, 2012, 39, .	1.5	42
20	Ionospheric effects upon a satellite navigation system at Mars. Radio Science, 2004, 39, n/a-n/a.	0.8	34
21	A multi-year survey of dynamics near the surface in the northern hemisphere of Mars: Short-period baroclinic waves and dust storms. Icarus, 2012, 219, 307-320.	1.1	33
22	Snow precipitation on Mars driven by cloud-induced night-time convection. Nature Geoscience, 2017, 10, 652-657.	5.4	32
23	An upper limit on Plutoâ€™s ionosphere from radio occultation measurements with New Horizons. Icarus, 2018, 307, 17-24.	1.1	30
24	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. Icarus, 2014, 243, 91-103.	1.1	28
25	Equatorial waves in the stratosphere of Uranus. Icarus, 1991, 94, 64-91.	1.1	22
26	Inertio-Gravity Waves in the Atmosphere of Neptune. Icarus, 1993, 105, 142-161.	1.1	20
27	The Lymanâ€Î± Sky Background as Observed by New Horizons. Geophysical Research Letters, 2018, 45, 8022-8028.	1.5	19
28	Temperatures and aerosol opacities of the Mars atmosphere at aphelion: Validation and inter-comparison of limb sounding profiles from MRO/MCS and MGS/TES. Icarus, 2015, 251, 26-49.	1.1	16
29	The martian daytime convective boundary layer: Results from radio occultation measurements and a mesoscale model. Icarus, 2019, 326, 105-122.	1.1	15
30	Atmospheric risk assessment for the Mars Science Laboratory Entry, Descent, and Landing system. , 2010, , .		14
31	Baroclinic waves in the northern hemisphere of Mars as observed by the MRO Mars Climate Sounder and the MGS Thermal Emission Spectrometer. Icarus, 2021, 357, 114152.	1.1	14
32	Spatial irregularities in Jupiter's upper ionosphere observed by Voyager radio occultations. Journal of Geophysical Research, 1982, 87, 5275-5289.	3.3	13
33	Strong scintillations during atmospheric occultations: Theoretical intensity spectra. Radio Science, 1986, 21, 257-270.	0.8	12
34	Pluto's Ultraviolet Spectrum, Surface Reflectance, and Airglow Emissions. Astronomical Journal, 2020, 159, 274.	1.9	12
35	A comparison of MGS Phase 1 aerobraking radio occultation data and the NASA Ames Mars GCM. Journal of Geophysical Research, 2000, 105, 17601-17615.	3.3	11
36	Magnetic field orientations in Saturn's upper ionosphere inferred from Voyager radio occultations. Journal of Geophysical Research, 1984, 89, 65-73.	3.3	10

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37	MOSAIC: A Satellite Constellation to Enable Groundbreaking Mars Climate System Science and Prepare for Human Exploration. Planetary Science Journal, 2021, 2, 211.	1.5	6
38	Nighttime convection in water-ice clouds at high northern latitudes on Mars. Icarus, 2022, 371, 114693.	1.1	5
39	Past and future of radio occultation studies of planetary atmospheres. Advances in Space Research, 1987, 7, 29-32.	1.2	4
40	Assessment of Environments for Mars Science Laboratory Entry, Descent, and Surface Operations. , 2012, , 793-835.		4
41	Pre- and Post-entry, Descent and Landing Assessment of the Martian Atmosphere for the Mars 2020 Rover. Planetary Science Journal, 2022, 3, 147.	1.5	4
42	Detection of Radio Thermal Emission from the Kuiper Belt Object (486958) Arrokoth during the New Horizons Encounter. Planetary Science Journal, 2022, 3, 109.	1.5	3
43	The Radioscience Experiment on New Horizons. , 2011, , .		2