

# Don Banfield

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8456504/publications.pdf>

Version: 2024-02-01

90  
papers

6,197  
citations

61857

43  
h-index

66788

78  
g-index

92  
all docs

92  
docs citations

92  
times ranked

3102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Voyager 2 at Neptune: Imaging Science Results. <i>Science</i> , 1989, 246, 1422-1449.	6.0	573
2	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	5.4	274
3	SEIS: InSight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019, 215, 12.	3.7	238
4	Aeolian processes at the Mars Exploration Rover Meridiani Planum landing site. <i>Nature</i> , 2005, 436, 58-61.	13.7	233
5	Atmospheric Imaging Results from the Mars Exploration Rovers: Spirit and Opportunity. <i>Science</i> , 2004, 306, 1753-1756.	6.0	219
6	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020, 13, 213-220.	5.4	207
7	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	5.4	194
8	Observation of moist convection in Jupiter's atmosphere. <i>Nature</i> , 2000, 403, 628-630.	13.7	182
9	The atmosphere of Mars as observed by InSight. <i>Nature Geoscience</i> , 2020, 13, 190-198.	5.4	161
10	Constraints on dust aerosols from the Mars Exploration Rovers using MGS overflights and Mini-TES. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	159
11	Jupiter's Cloud Structure from Galileo Imaging Data. <i>Icarus</i> , 1998, 135, 230-250.	1.1	158
12	Moist convection as an energy source for the large-scale motions in Jupiter's atmosphere. <i>Nature</i> , 2000, 403, 630-632.	13.7	155
13	Galileo's First Images of Jupiter and the Galilean Satellites. <i>Science</i> , 1996, 274, 377-385.	6.0	152
14	One Martian year of atmospheric observations using MER Mini-TES. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	147
15	Neptune's Story. <i>Science</i> , 1989, 245, 500-504.	6.0	138
16	Traveling waves in the martian atmosphere from MGS TES Nadir data. <i>Icarus</i> , 2004, 170, 365-403.	1.1	107
17	Geology of the InSight landing site on Mars. <i>Nature Communications</i> , 2020, 11, 1014.	5.8	107
18	Galileo Imaging of Jupiter's Atmosphere: The Great Red Spot, Equatorial Region, and White Ovals. <i>Icarus</i> , 1998, 135, 265-275.	1.1	106

#	ARTICLE	IF	CITATIONS
19	InSight Auxiliary Payload Sensor Suite (APSS). <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	104
20	First Atmospheric Science Results from the Mars Exploration Rovers Mini-TES. <i>Science</i> , 2004, 306, 1750-1753.	6.0	102
21	Forced waves in the martian atmosphere from MGS TES nadir data. <i>Icarus</i> , 2003, 161, 319-345.	1.1	101
22	The Marsquake catalogue from InSight, sols 0â€“478. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106595.	0.7	97
23	Thermal tides in the Martian middle atmosphere as seen by the Mars Climate Sounder. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	94
24	Atmospheric Science with InSight. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	88
25	Geology and Physical Properties Investigations by the InSight Lander. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	77
26	Traveling waves in the Northern Hemisphere of Mars. <i>Geophysical Research Letters</i> , 2002, 29, 29-1-29-4.	1.5	72
27	Intense polar temperature inversion in the middle atmosphere on Mars. <i>Nature Geoscience</i> , 2008, 1, 745-749.	5.4	71
28	A dynamical history of the inner Neptunian satellites. <i>Icarus</i> , 1992, 99, 390-401.	1.1	69
29	Crustal and time-varying magnetic fields at the InSight landing site on Mars. <i>Nature Geoscience</i> , 2020, 13, 199-204.	5.4	68
30	Color and the Vertical Structure in Jupiter's Belts, Zones, and Weather Systems. <i>Icarus</i> , 2001, 154, 459-474.	1.1	67
31	Evaluating the Wind-Induced Mechanical Noise on the InSight Seismometers. <i>Space Science Reviews</i> , 2017, 211, 429-455.	3.7	65
32	Companion guide to the marsquake catalog from InSight, Sols 0â€“478: Data content and non-seismic events. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106597.	0.7	64
33	Thermal tides and stationary waves on Mars as revealed by Mars Global Surveyor thermal emission spectrometer. <i>Journal of Geophysical Research</i> , 2000, 105, 9521-9537.	3.3	62
34	The Mars Environmental Dynamics Analyzer, MEDA. A Suite of Environmental Sensors for the Mars 2020 Mission. <i>Space Science Reviews</i> , 2021, 217, 48.	3.7	57
35	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. <i>Planetary and Space Science</i> , 2014, 104, 122-140.	0.9	56
36	Stratospheric aerosols on Jupiter from Cassini observations. <i>Icarus</i> , 2013, 226, 159-171.	1.1	54

#	ARTICLE	IF	CITATIONS
37	Velocity and vorticity measurements of Jupiter's Great Red Spot using automated cloud feature tracking. <i>Icarus</i> , 2007, 188, 35-46.	1.1	53
38	Uranus and Neptune missions: A study in advance of the next Planetary Science Decadal Survey. <i>Planetary and Space Science</i> , 2019, 177, 104680.	0.9	50
39	Modeling of Ground Deformation and Shallow Surface Waves Generated by Martian Dust Devils and Perspectives for Near-Surface Structure Inversion. <i>Space Science Reviews</i> , 2017, 211, 501-524.	3.7	49
40	Impact-Seismic Investigations of the InSight Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	48
41	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. <i>Science Advances</i> , 2022, 8, .	4.7	47
42	A Study of Daytime Convective Vortices and Turbulence in the Martian Planetary Boundary Layer Based on Half a Year of InSight Atmospheric Measurements and Large Eddy Simulations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	1.5	45
43	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. <i>Experimental Astronomy</i> , 2012, 33, 753-791.	1.6	44
44	Subsurface Structure at the InSight Landing Site From Compliance Measurements by Seismic and Meteorological Experiments. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006387.	1.5	44
45	Thermal tides during the 2001 Martian global scale dust storm. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 506-519.	1.5	42
46	Near-IR Spectrophotometry of Jovian Aerosols—Meridional and Vertical Distributions. <i>Icarus</i> , 1998, 134, 11-23.	1.1	41
47	2.1/4m Spectrophotometry of Jovian Stratospheric Aerosols—Scattering Opacities, Vertical Distributions, and Wind Speeds. <i>Icarus</i> , 1996, 121, 389-410.	1.1	38
48	OSS (Outer Solar System): a fundamental and planetary physics mission to Neptune, Triton and the Kuiper Belt. <i>Experimental Astronomy</i> , 2012, 34, 203-242.	1.6	37
49	Saturn's cloud structure inferred from Cassini ISS. <i>Icarus</i> , 2013, 225, 93-110.	1.1	36
50	Near-IR Spectrophotometry of Saturnian Aerosols—Meridional and Vertical Distribution. <i>Icarus</i> , 2001, 152, 407-422.	1.1	35
51	An Environmental Wind Tunnel Facility for Testing Meteorological Sensor Systems. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 447-457.	0.5	35
52	Saturn's emitted power. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
53	A Comodulation Analysis of Atmospheric Energy Injection Into the Ground Motion at InSight, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006538.	1.5	33
54	Pressure Effects on the SEIS—InSight Instrument, Improvement of Seismic Records, and Characterization of Long Period Atmospheric Waves From Ground Displacements. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006278.	1.5	31

#	ARTICLE	IF	CITATIONS
55	Seasonal Variability of the Daytime and Nighttime Atmospheric Turbulence Experienced by InSight on Mars. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095453.	1.5	31
56	Effects of a Large Dust Storm in the Near-Surface Atmosphere as Measured by InSight in Elysium Planitia, Mars. Comparison With Contemporaneous Measurements by Mars Science Laboratory. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006493.	1.5	30
57	The Holy Grail: A road map for unlocking the climate record stored within Mars's polar layered deposits. <i>Planetary and Space Science</i> , 2020, 184, 104841.	0.9	30
58	Monitoring of Dust Devil Tracks Around the InSight Landing Site, Mars, and Comparison With In Situ Atmospheric Data. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087234.	1.5	30
59	Martian Infrasound: Numerical Modeling and Analysis of InSight's Data. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006376.	1.5	28
60	The Hera Saturn entry probe mission. <i>Planetary and Space Science</i> , 2016, 130, 80-103.	0.9	26
61	Absolute Reflectivity Spectra of Jupiter: 0.25-3.5 Micrometers. <i>Icarus</i> , 1996, 121, 351-360.	1.1	25
62	On-Deck Seismology: Lessons from InSight for Future Planetary Seismology. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006353.	1.5	25
63	Scientific Observations With the InSight Solar Arrays: Dust, Clouds, and Eclipses on Mars. <i>Earth and Space Science</i> , 2020, 7, e2019EA000992.	1.1	24
64	An HST Study of Jovian Chromophores. <i>Icarus</i> , 2001, 149, 94-106.	1.1	23
65	Vortex-Dominated Aeolian Activity at InSight's Landing Site, Part 1: Multi-Instrument Observations, Analysis, and Implications. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006757.	1.5	23
66	Strong jet and a new thermal wave in Saturn's equatorial stratosphere. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	22
67	Soil Thermophysical Properties Near the InSight Lander Derived From 50 Sols of Radiometer Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006859.	1.5	22
68	Determining a tilt in Titan's north-south albedo asymmetry from Cassini images. <i>Icarus</i> , 2009, 203, 242-249.	1.1	21
69	A Martian sonic anemometer. , 2005, , .		20
70	Vortex-Dominated Aeolian Activity at InSight's Landing Site, Part 2: Local Meteorology, Transport Dynamics, and Model Analysis. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006514.	1.5	19
71	Winds, waves and shorelines from ancient martian seas. <i>Icarus</i> , 2015, 250, 368-383.	1.1	18
72	Jovian chromophore characteristics from multispectral HST images. <i>Icarus</i> , 2011, 215, 552-583.	1.1	16

#	ARTICLE	IF	CITATIONS
73	Constraining Martian Regolith and Vortex Parameters From Combined Seismic and Meteorological Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006410.	1.5	16
74	Martian Weather Correlation Length Scales. <i>Icarus</i> , 1996, 119, 130-143.	1.1	13
75	A Martian acoustic anemometer. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 1420-1428.	0.5	13
76	Seasonal seismic activity on Mars. <i>Earth and Planetary Science Letters</i> , 2021, 576, 117171.	1.8	13
77	Aerosols and methane in the ice giant atmospheres inferred from spatially resolved, near-infrared spectra: I. Uranus, 2001–2007. <i>Icarus</i> , 2018, 310, 54-76.	1.1	12
78	InSight Pressure Data Recalibration, and Its Application to the Study of Long-Term Pressure Changes on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	12
79	Kronos: exploring the depths of Saturn with probes and remote sensing through an international mission. <i>Experimental Astronomy</i> , 2009, 23, 947-976.	1.6	10
80	Geophysical Observations of Phobos Transits by InSight. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089099.	1.5	10
81	Operations and calibration of the solid-state imaging system during the Galileo extended mission at Jupiter. <i>Optical Engineering</i> , 2003, 42, 494.	0.5	8
82	Search for Infrasound Signals in InSight Data Using Coupled Pressure/Ground Deformation Methods. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 3055-3064.	1.1	8
83	Accommodation Study for an Anemometer on a Martian Lander. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 210-218.	0.5	7
84	In Situ exploration of the giant planets. <i>Experimental Astronomy</i> , 2022, 54, 975-1013.	1.6	5
85	SPRITE: A Saturn probe new frontiers mission. , 2018, , .		4
86	Forward Modeling of the Phobos Tides and Applications to the First Martian Year of the InSight Mission. <i>Earth and Space Science</i> , 2021, 8, e2021EA001669.	1.1	4
87	Planetary descent probes: polarization nephelometer and hydrogen ortho/para instruments. , 2005, , .		3
88	On the problem of a variable Mars atmospheric composition in the determination of temperature and density from the adiabatic speed of sound. <i>Planetary and Space Science</i> , 2020, 193, 105064.	0.9	2
89	The characterisation of cMUTs at low gas pressures. , 0, , .		1
90	Flow Testing of a Sonic Anemometer for the Martian Environment. , 2020, , .		0