W M Folkner

List of Publications by Year
in descending order

36 papers	3,586 citations	236925 25 h-index	361022 35 g-index
36 all docs	36 docs citations	36 times ranked	2829 citing authors

#	Article	IF	Citations
1	Mars high resolution gravity fields from MRO, Mars seasonal gravity, and other dynamical parameters. Icarus, 2011, 211, 401-428.	2.5	308
2	Fluid Core Size of Mars from Detection of the Solar Tide. Science, 2003, 300, 299-303.	12.6	283
3	Interior Structure and Seasonal Mass Redistribution of Mars from Radio Tracking of Mars Pathfinder. Science, 1997, 278, 1749-1752.	12.6	279
4	Initial results from the InSight mission on Mars. Nature Geoscience, 2020, 13, 183-189.	12.9	274
5	Overview of the Mars Pathfinder Mission and Assessment of Landing Site Predictions. Science, 1997, 278, 1743-1748.	12.6	268
6	Jupiterâ€™s interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. Science, 2017, 356, 821-825.	12.6	229
7	Jupiterâ€™s atmospheric jet streams extend thousands of kilometres deep. Nature, 2018, 555, 223-226.	27.8	189
8	Measurement of Jupiterâ€™s asymmetric gravity field. Nature, 2018, 555, 220-222.	27.8	177
9	The JPL Planetary and Lunar Ephemerides DE440 and DE441. Astronomical Journal, 2021, 161, 105.	4.7	177
10	A suppression of differential rotation in Jupiterâ€™s deep interior. Nature, 2018, 555, 227-230.	27.8	165
11	An improved JPL Mars gravity field and orientation from Mars orbiter and lander tracking data. Icarus, 2016, 274, 253-260.	2.5	134
12	Overview of the Mars Pathfinder Mission: Launch through landing, surface operations, data sets, and science results. Journal of Geophysical Research, 1999, 104, 8523-8553.	3.3	121
13	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. Science, 2019, 364, .	12.6	113
14	Ammonia abundance in Jupiter's atmosphere derived from the attenuation of the Galileo probe's radio signal. Journal of Geophysical Research, 1998, 103, 22847-22855.	3.3	107
15	Geology of the InSight landing site on Mars. Nature Communications, 2020, 11, 1014.	12.8	107
16	Pre-mission InSights on the Interior of Mars. Space Science Reviews, 2019, 215, 1.	8.1	85
17	Jupiter's Gravity Field Halfway Through the Juno Mission. Geophysical Research Letters, 2020, 47, e2019GL086572.	4.0	79
18	Jupiter gravity field estimated from the first two Juno orbits. Geophysical Research Letters, 2017, 44, 4694-4700.	4.0	74

#	Article	IF	Citations
19	Alternative mission architectures for a gravity recovery satellite mission. Journal of Geodesy, 2009, 83, 569-581.	3.6	68
20	The Rotation and Interior Structure Experiment on the InSight Mission to Mars. Space Science Reviews, 2018, 214, 1.	8.1	64
21	Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays. Astrophysical Journal, 2020, 893, 112.	4.5	49
22	New constraints on Mars rotation determined from radiometric tracking of the Opportunity Mars Exploration Rover. Icarus, 2014, 229, 340-347.	2.5	41
23	Lander radioscience for obtaining the rotation and orientation of Mars. Planetary and Space Science, 2009, 57, 1050-1067.	1.7	32
24	The Juno Gravity Science Instrument. Space Science Reviews, 2017, 213, 205-218.	8.1	32
25	The netlander ionosphere and geodesy experiment. Advances in Space Research, 2001, 28, 1237-1249.	2.6	31
26	The radioscience LaRa instrument onboard ExoMars 2020 to investigate the rotation and interior of mars. Planetary and Space Science, 2020, 180, 104776.	1.7	18
27	The depth of Jupiterâ€™s Great Red Spot constrained by Juno gravity overflights. Science, 2021, 374, 964-968.	12.6	18
28	Equilibrium Tidal Response of Jupiter: Detectability by the Juno Spacecraft. Astrophysical Journal, 2020, 891, 42.	4.5	17
29	Mars precession rate determined from radiometric tracking of the InSight Lander. Planetary and Space Science, 2021, 199, 105208.	1.7	15
30	Updated Equipotential Shapes of Jupiter and Saturn Using Juno and Cassini Grand Finale Gravity Science Measurements. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006354.	3.6	10
31	Relativistic aspects of the JPL planetary ephemeris. Proceedings of the International Astronomical Union, 2009, 5, 155-158.	0.0	6
32	A mascon approach to estimating the depth of Jupiterâ€™s Great Red Spot with Juno gravity measurements. Planetary and Space Science, 2020, 181, 104781.	1.7	5
33	Solar System Ephemerides, Pulsar Timing, Gravitational Waves, & Navigation. Proceedings of the International Astronomical Union, 2017, 13, 150-153.	0.0	4
34	Resolving the Latitudinal Shortâ€Scale Gravity Field of Jupiter Using Slepian Functions. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006416.	3.6	3
35	Low-SNR Doppler Data Processing for the InSight Radio Science Experiment. Remote Sensing, 2022, 14, 1924.	4.0	3
36	The First Two Years of juno Spacecraft Astrometry with the Very Long Baseline Array. , 2019, , .		1