

W M Folkner

List of Publications by Year in descending order

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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	Low-SNR Doppler Data Processing for the InSight Radio Science Experiment. Remote Sensing, 2022, 14, 1924.	4.0	3
2	The JPL Planetary and Lunar Ephemerides DE440 and DE441. Astronomical Journal, 2021, 161, 105.	4.7	177
3	Mars precession rate determined from radiometric tracking of the InSight Lander. Planetary and Space Science, 2021, 199, 105208.	1.7	15
4	The depth of Jupiter's Great Red Spot constrained by Juno gravity overflights. Science, 2021, 374, 964-968.	12.6	18
5	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
6	A mascon approach to estimating the depth of Jupiter's Great Red Spot with Juno gravity measurements. Planetary and Space Science, 2020, 181, 104781.	1.7	5
7	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
8	Resolving the Latitudinal Short-Scale Gravity Field of Jupiter Using Slepian Functions. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006416.	3.6	3
9	Equilibrium Tidal Response of Jupiter: Detectability by the Juno Spacecraft. Astrophysical Journal, 2020, 891, 42.	4.5	17
10	Geology of the InSight landing site on Mars. Nature Communications, 2020, 11, 1014.	12.8	107
11	Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays. Astrophysical Journal, 2020, 893, 112.	4.5	49
12	Jupiter's Gravity Field Halfway Through the Juno Mission. Geophysical Research Letters, 2020, 47, e2019GL086572.	4.0	79
13	Initial results from the InSight mission on Mars. Nature Geoscience, 2020, 13, 183-189.	12.9	274
14	The First Two Years of Juno Spacecraft Astrometry with the Very Long Baseline Array. , 2019, , .		1
15	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. Science, 2019, 364, .	12.6	113
16	Pre-mission InSights on the Interior of Mars. Space Science Reviews, 2019, 215, 1.	8.1	85
17	A suppression of differential rotation in Jupiter's deep interior. Nature, 2018, 555, 227-230.	27.8	165
18	Measurement of Jupiter's asymmetric gravity field. Nature, 2018, 555, 220-222.	27.8	177

#	ARTICLE	IF	CITATIONS
19	Jupiter's atmospheric jet streams extend thousands of kilometres deep. <i>Nature</i> , 2018, 555, 223-226.	27.8	189
20	The Rotation and Interior Structure Experiment on the InSight Mission to Mars. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	64
21	Jupiter's interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. <i>Science</i> , 2017, 356, 821-825.	12.6	229
22	Jupiter gravity field estimated from the first two Juno orbits. <i>Geophysical Research Letters</i> , 2017, 44, 4694-4700.	4.0	74
23	The Juno Gravity Science Instrument. <i>Space Science Reviews</i> , 2017, 213, 205-218.	8.1	32
24	Solar System Ephemerides, Pulsar Timing, Gravitational Waves, & Navigation. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 150-153.	0.0	4
25	An improved JPL Mars gravity field and orientation from Mars orbiter and lander tracking data. <i>Icarus</i> , 2016, 274, 253-260.	2.5	134
26	New constraints on Mars rotation determined from radiometric tracking of the Opportunity Mars Exploration Rover. <i>Icarus</i> , 2014, 229, 340-347.	2.5	41
27	Mars high resolution gravity fields from MRO, Mars seasonal gravity, and other dynamical parameters. <i>Icarus</i> , 2011, 211, 401-428.	2.5	308
28	Alternative mission architectures for a gravity recovery satellite mission. <i>Journal of Geodesy</i> , 2009, 83, 569-581.	3.6	68
29	Lander radioscience for obtaining the rotation and orientation of Mars. <i>Planetary and Space Science</i> , 2009, 57, 1050-1067.	1.7	32
30	Relativistic aspects of the JPL planetary ephemeris. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 155-158.	0.0	6
31	Fluid Core Size of Mars from Detection of the Solar Tide. <i>Science</i> , 2003, 300, 299-303.	12.6	283
32	The netlander ionosphere and geodesy experiment. <i>Advances in Space Research</i> , 2001, 28, 1237-1249.	2.6	31
33	Overview of the Mars Pathfinder Mission: Launch through landing, surface operations, data sets, and science results. <i>Journal of Geophysical Research</i> , 1999, 104, 8523-8553.	3.3	121
34	Ammonia abundance in Jupiter's atmosphere derived from the attenuation of the Galileo probe's radio signal. <i>Journal of Geophysical Research</i> , 1998, 103, 22847-22855.	3.3	107
35	Overview of the Mars Pathfinder Mission and Assessment of Landing Site Predictions. <i>Science</i> , 1997, 278, 1743-1748.	12.6	268
36	Interior Structure and Seasonal Mass Redistribution of Mars from Radio Tracking of Mars Pathfinder. <i>Science</i> , 1997, 278, 1749-1752.	12.6	279