

Ryan S Park

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,287
citations

361413

20
h-index

345221

36
g-index

41
all docs

41
docs citations

41
times ranked

1889
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravity Field of the Moon from the Gravity Recovery and Interior Laboratory (GRAIL) Mission. <i>Science</i> , 2013, 339, 668-671.	12.6	389
2	Lunar interior properties from the GRAIL mission. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1546-1578.	3.6	185
3	The JPL Planetary and Lunar Ephemerides DE440 and DE441. <i>Astronomical Journal</i> , 2021, 161, 105.	4.7	177
4	Nonlinear Mapping of Gaussian Statistics: Theory and Applications to Spacecraft Trajectory Design. <i>Journal of Guidance, Control, and Dynamics</i> , 2006, 29, 1367-1375.	2.8	164
5	The JPL lunar gravity field to spherical harmonic degree 660 from the GRAIL Primary Mission. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1415-1434.	3.6	143
6	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
7	Precession of Mercury's Perihelion from Ranging to the MESSENGER Spacecraft. <i>Astronomical Journal</i> , 2017, 153, 121.	4.7	134
8	Composition and structure of the shallow subsurface of Ceres revealed by crater morphology. <i>Nature Geoscience</i> , 2016, 9, 538-542.	12.9	118
9	The interior structure of Ceres as revealed by surface topography. <i>Earth and Planetary Science Letters</i> , 2017, 476, 153-164.	4.4	117
10	High-resolution lunar gravity fields from the GRAIL Primary and Extended Missions. <i>Geophysical Research Letters</i> , 2014, 41, 1452-1458.	4.0	103
11	Resonance locking in giant planets indicated by the rapid orbital expansion of Titan. <i>Nature Astronomy</i> , 2020, 4, 1053-1058.	10.1	87
12	Nonlinear Semi-Analytic Methods for Trajectory Estimation. <i>Journal of Guidance, Control, and Dynamics</i> , 2007, 30, 1668-1676.	2.8	60
13	Estimating Small-Body Gravity Field from Shape Model and Navigation Data. <i>Journal of Guidance, Control, and Dynamics</i> , 2010, 33, 212-221.	2.8	54
14	SURFACE ALBEDO AND SPECTRAL VARIABILITY OF CERES. <i>Astrophysical Journal Letters</i> , 2016, 817, L22.	8.3	42
15	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
16	Gravity field of the Orientale basin from the Gravity Recovery and Interior Laboratory Mission. <i>Science</i> , 2016, 354, 438-441.	12.6	38
17	Detection of the Chandler Wobble of Mars From Orbiting Spacecraft. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090568.	4.0	37
18	The Scientific Measurement System of the Gravity Recovery and Interior Laboratory (GRAIL) Mission. <i>Space Science Reviews</i> , 2013, 178, 25-55.	8.1	32

#	ARTICLE	IF	CITATIONS
19	Ephemeris and hazard assessment for near-Earth asteroid (101955) Bennu based on OSIRIS-REx data. Icarus, 2021, 369, 114594.	2.5	28
20	Gravity Recovery and Interior Laboratory Simulations of Static and Temporal Gravity Field. Journal of Spacecraft and Rockets, 2012, 49, 390-400.	1.9	22
21	Tectonic analysis of fracturing associated with occator crater. Icarus, 2019, 320, 49-59.	2.5	21
22	Improved detection of tides at Europa with radiometric and optical tracking during flybys. Planetary and Space Science, 2015, 112, 10-14.	1.7	17
23	Breakthrough Listen Observations of 1I/â€²Oumuamua with the GBT. Research Notes of the AAS, 2018, 2, 9.	0.7	17
24	Detecting tides and gravity at Europa from multiple close flybys. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	16
25	A Recipe for the Geophysical Exploration of Enceladus. Planetary Science Journal, 2021, 2, 157.	3.6	14
26	Floorâ€²Fractured Craters on Ceres and Implications for Interior Processes. Journal of Geophysical Research E: Planets, 2018, 123, 3188-3204.	3.6	13
27	Distinguishing the Origin of Asteroid (16) Psyche. Space Science Reviews, 2022, 218, 17.	8.1	13
28	Surface Roughness and Gravitational Slope Distributions of Vesta and Ceres. Journal of Geophysical Research E: Planets, 2019, 124, 14-30.	3.6	12
29	VERY LONG BASELINE ARRAY ASTROMETRIC OBSERVATIONS OF MARS ORBITERS. Astronomical Journal, 2015, 150, 121.	4.7	11
30	Search for OH 18 cm Radio Emission from 1I/2017 U1 with the Green Bank Telescope. Astronomical Journal, 2018, 155, 185.	4.7	11
31	Advanced Pointing Imaging Camera (APIC) for planetary science and mission opportunities. Planetary and Space Science, 2020, 194, 105095.	1.7	10
32	Deflection of spacecraft trajectories as a new test of general relativity: Determining the parametrized post-Newtonian parameters ² and ³ . Physical Review D, 2004, 69, .	4.7	8
33	The Deep-space Positioning System Concept: Automating Complex Navigation Operations Beyond the Earth. , 2016, , .		4
34	The Psyche Topography and Geomorphology Investigation. Space Science Reviews, 2022, 218, 1.	8.1	4
35	Reduced Nonlinear Model for Orbit Uncertainty Propagation and Estimation. Journal of Guidance, Control, and Dynamics, 2021, 44, 1578-1592.	2.8	3
36	Trajectory Reconstruction of a Sounding Rocket Using Inertial Measurement Unit and Landmark Data. Journal of Spacecraft and Rockets, 2010, 47, 1003-1009.	1.9	2

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37	Estimating Asteroid Mass from Optically Tracked Radio Beacons. Journal of Spacecraft and Rockets, 2021, 58, 444-455.	1.9	2
38	The Scientific Measurement System of the Gravity Recovery and Interior Laboratory (GRAIL) Mission. , 2013, , 25-55.		2
39	The First Two Years of Juno Spacecraft Astrometry with the Very Long Baseline Array. , 2019, , .		1
40	Efficient method for approximating nonlinear dynamics: applications to uncertainty propagation and estimation. , 2020, , .		1