

James H Roberts

List of Publications by Year in descending order

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44
papers

2,809
citations

236925

25
h-index

289244

40
g-index

47
all docs

47
docs citations

47
times ranked

2411
citing authors

#	ARTICLE	IF	CITATIONS
1	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	12.6	407
2	Supercontinent cycles, true polar wander, and very long-wavelength mantle convection. <i>Earth and Planetary Science Letters</i> , 2007, 261, 551-564.	4.4	253
3	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	12.6	219
4	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
5	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. <i>Nature Geoscience</i> , 2019, 12, 247-252.	12.9	179
6	Tidal heating and the long-term stability of a subsurface ocean on Enceladus. <i>Icarus</i> , 2008, 194, 675-689.	2.5	171
7	Degree-1 convection in the Martian mantle and the origin of the hemispheric dichotomy. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	141
8	Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto. <i>Nature</i> , 2016, 540, 94-96.	27.8	108
9	Mean radius and shape of Pluto and Charon from New Horizons images. <i>Icarus</i> , 2017, 287, 12-29.	2.5	105
10	Convection in a volatile nitrogen-ice-rich layer drives Pluto's geological vigour. <i>Nature</i> , 2016, 534, 82-85.	27.8	102
11	Giant impacts on early Mars and the cessation of the Martian dynamo. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	93
12	Exposure of spectrally distinct material by impact craters on Mercury: Implications for global stratigraphy. <i>Icarus</i> , 2010, 209, 210-223.	2.5	82
13	Sustainability of a subsurface ocean within Triton's interior. <i>Icarus</i> , 2012, 220, 339-347.	2.5	63
14	Thermal evolution of Mercury as constrained by MESSENGER observations. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1033-1044.	3.6	63
15	The fluffy core of Enceladus. <i>Icarus</i> , 2015, 258, 54-66.	2.5	61
16	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016, 351, aad9045.	12.6	60
17	Plume-induced topography and geoid anomalies and their implications for the Tharsis rise on Mars. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	45
18	The effect of the Caloris impact on the mantle dynamics and volcanism of Mercury. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44

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19	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
20	Convection-driven compaction as a possible origin of Enceladus's long wavelength topography. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 908-915.	3.6	40
21	The low-degree shape of Mercury. <i>Geophysical Research Letters</i> , 2015, 42, 6951-6958.	4.0	36
22	Impact-induced mantle dynamics on Mars. <i>Icarus</i> , 2012, 218, 278-289.	2.5	32
23	On the support of the Tharsis Rise on Mars. <i>Earth and Planetary Science Letters</i> , 2003, 214, 1-9.	4.4	29
24	Near-surface heating on Enceladus and the south polar thermal anomaly. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	29
25	Impact heating and coupled core cooling and mantle dynamics on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 729-744.	3.6	27
26	The cause for the north-south orientation of the crustal dichotomy and the equatorial location of Tharsis on Mars. <i>Icarus</i> , 2007, 190, 24-31.	2.5	24
27	Impact basin relaxation at Iapetus. <i>Icarus</i> , 2011, 214, 82-90.	2.5	23
28	The Morphometry of Impact Craters on Bennu. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089672.	4.0	20
29	Origin and flatness of ponds on asteroid 433 Eros. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1735-1748.	1.6	16
30	Triton: Fascinating Moon, Likely Ocean World, Compelling Destination!. <i>Planetary Science Journal</i> , 2021, 2, 137.	3.6	15
31	The Formation of Terraces on Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	14
32	Effects of basin-forming impacts on the thermal evolution and magnetic field of Mars. <i>Earth and Planetary Science Letters</i> , 2017, 478, 192-202.	4.4	13
33	Neptune Odyssey: A Flagship Concept for the Exploration of the Neptune-Triton System. <i>Planetary Science Journal</i> , 2021, 2, 184.	3.6	11
34	Modeling an exogenic origin for the equatorial ridge on Iapetus. <i>Icarus</i> , 2018, 307, 197-206.	2.5	8
35	Breaking the symmetry by breaking the ice shell: An impact origin for the south polar terrain of Enceladus. <i>Icarus</i> , 2021, 359, 114302.	2.5	8
36	Observational bias and the apparent distribution of ponds on Eros. <i>Icarus</i> , 2014, 241, 160-164.	2.5	7

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37	Subcontinental sinking slab remnants in a spherical geometry mantle model. Journal of Geophysical Research: Solid Earth, 2013, 118, 1760-1777.	3.4	5
38	Could giant basin-forming impacts have killed Martian dynamo?. Geophysical Research Letters, 2014, 41, 8006-8012.	4.0	4
39	Triton: Fascinating Moon, Likely Ocean World, Compelling Destination!. , 2021, 53, .		1
40	The Science Case for Io Exploration. , 2021, 53, .		1
41	Endogenic origin of the Martian hemispheric dichotomy. , 2021, , 499-522.		0
42	Ensuring Inclusivity in the 2023 Planetary Science and Astrobiology Decadal Survey. , 2021, 53, .		0
43	Enabling the Planetary Workforce to do the best science by funding work that is a service to the Profession. , 2021, 53, .		0
44	Recommendations for Addressing Priority Io Science in the Next Decade. , 2021, 53, .		0