James H Roberts

List of Publications by Year
in descending order

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44	2,809	236833	289141
papers	citations	25 h-index	40 g-index

47	47	47	2411
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Pluto system: Initial results from its exploration by New Horizons. Science, 2015, 350, aad1815.	6.0	407
2	Supercontinent cycles, true polar wander, and very long-wavelength mantle convection. Earth and Planetary Science Letters, 2007, 261, 551-564.	1.8	253
3	The geology of Pluto and Charon through the eyes of New Horizons. Science, 2016, 351, 1284-1293.	6.0	219
4	The atmosphere of Pluto as observed by New Horizons. Science, 2016, 351, aad8866.	6.0	201
5	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. Nature Geoscience, 2019, 12, 247-252.	5.4	179
6	Tidal heating and the long-term stability of a subsurface ocean on Enceladus. Icarus, 2008, 194, 675-689.	1.1	171
7	Degree-1 convection in the Martian mantle and the origin of the hemispheric dichotomy. Journal of Geophysical Research, 2006, 111, .	3.3	141
8	Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto. Nature, 2016, 540, 94-96.	13.7	108
9	Mean radius and shape of Pluto and Charon from New Horizons images. Icarus, 2017, 287, 12-29.	1.1	105
10	Convection in a volatile nitrogen-ice-rich layer drives Plutoâ€™s geological vigour. Nature, 2016, 534, 82-85.	13.7	102
11	Giant impacts on early Mars and the cessation of the Martian dynamo. Journal of Geophysical Research, 2009, 114, .	3.3	93
12	Exposure of spectrally distinct material by impact craters on Mercury: Implications for global stratigraphy. Icarus, 2010, 209, 210-223.	1.1	82
13	Sustainability of a subsurface ocean within Tritonâ€™s interior. Icarus, 2012, 220, 339-347.	1.1	63
14	Thermal evolution of Mercury as constrained by MESSENGER observations. Journal of Geophysical Research E: Planets, 2013, 118, 1033-1044.	1.5	63
15	The fluffy core of Enceladus. Icarus, 2015, 258, 54-66.	1.1	61
16	Plutoâ€™s interaction with its space environment: Solar wind, energetic particles, and dust. Science, 2016, 351, aad9045.	6.0	60
17	Plume-induced topography and geoid anomalies and their implications for the Tharsis rise on Mars. Journal of Geophysical Research, 2004, 109, .	3.3	45
18	The effect of the Caloris impact on the mantle dynamics and volcanism of Mercury. Journal of Geophysical Research, 2012, 117, .	3.3	44

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19	The formation of Charonâ€™s red poles from seasonally cold-trapped volatiles. Nature, 2016, 539, 65-68.	13.7	44
20	Convectionâ€driven compaction as a possible origin of Enceladus's long wavelength topography. Journal of Geophysical Research E: Planets, 2013, 118, 908-915.	1.5	40
21	The lowâ€degree shape of Mercury. Geophysical Research Letters, 2015, 42, 6951-6958.	1.5	36
22	Impact-induced mantle dynamics on Mars. Icarus, 2012, 218, 278-289.	1.1	32
23	On the support of the Tharsis Rise on Mars. Earth and Planetary Science Letters, 2003, 214, 1-9.	1.8	29
24	Nearâ€surface heating on Enceladus and the south polar thermal anomaly. Geophysical Research Letters, 2008, 35, .	1.5	29
25	Impact heating and coupled core cooling and mantle dynamics on Mars. Journal of Geophysical Research E: Planets, 2014, 119, 729-744.	1.5	27
26	The cause for the northâ€“south orientation of the crustal dichotomy and the equatorial location of Tharsis on Mars. Icarus, 2007, 190, 24-31.	1.1	24
27	Impact basin relaxation at Iapetus. Icarus, 2011, 214, 82-90.	1.1	23
28	The Morphometry of Impact Craters on Bennu. Geophysical Research Letters, 2020, 47, e2020GL089672.	1.5	20
29	Origin and flatness of ponds on asteroid 433 Eros. Meteoritics and Planetary Science, 2014, 49, 1735-1748.	0.7	16
30	Triton: Fascinating Moon, Likely Ocean World, Compelling Destination!. Planetary Science Journal, 2021, 2, 137.	1.5	15
31	The Formation of Terraces on Asteroid (101955) Bennu. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	14
32	Effects of basin-forming impacts on the thermal evolution and magnetic field of Mars. Earth and Planetary Science Letters, 2017, 478, 192-202.	1.8	13
33	Neptune Odyssey: A Flagship Concept for the Exploration of the Neptuneâ€“Triton System. Planetary Science Journal, 2021, 2, 184.	1.5	11
34	Modeling an exogenic origin for the equatorial ridge on Iapetus. Icarus, 2018, 307, 197-206.	1.1	8
35	Breaking the symmetry by breaking the ice shell: An impact origin for the south polar terrain of Enceladus. Icarus, 2021, 359, 114302.	1.1	8
36	Observational bias and the apparent distribution of ponds on Eros. Icarus, 2014, 241, 160-164.	1.1	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.	1.4	5
38	Could giant basinâ€forming impacts have killed Martian dynamo?. Geophysical Research Letters, 2014, 41, 8006-8012.	1.5	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