

John R Spencer

List of Publications by Citations

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117
papers

5,531
citations

40
h-index

73
g-index

122
ext. papers

6,257
ext. citations

12
avg, IF

5.14
L-index

#	Paper	IF	Citations
117	Cassini encounters Enceladus: background and the discovery of a south polar hot spot. <i>Science</i> , 2006 , 311, 1401-5	33.3	416
116	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015 , 350, aad1815	33.3	295
115	Exploring The Saturn System In The Thermal Infrared: The Composite Infrared Spectrometer. <i>Space Science Reviews</i> , 2004 , 115, 169-297	7.5	254
114	Systematic biases in radiometric diameter determinations. <i>Icarus</i> , 1989 , 78, 337-354	3.8	241
113	Surface compositions across Pluto and Charon. <i>Science</i> , 2016 , 351, aad9189	33.3	201
112	Shear heating as the origin of the plumes and heat flux on Enceladus. <i>Nature</i> , 2007 , 447, 289-91	50.4	198
111	Temperatures on europa from galileo photopolarimeter-radiometer: nighttime thermal anomalies. <i>Science</i> , 1999 , 284, 1514-6	33.3	183
110	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016 , 351, 1284-93	33.3	180
109	Discovery of gaseous S ₂ in Io's Pele plume. <i>Science</i> , 2000 , 288, 1208-10	33.3	167
108	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016 , 351, aad8866	33.3	164
107	Temperatures, winds, and composition in the saturnian system. <i>Science</i> , 2005 , 307, 1247-51	33.3	161
106	High-temperature silicate volcanism on Jupiter's moon Io. <i>Science</i> , 1998 , 281, 87-90	33.3	151
105	A rough-surface thermophysical model for airless planets. <i>Icarus</i> , 1990 , 83, 27-38	3.8	142
104	A clathrate reservoir hypothesis for Enceladus' south polar plume. <i>Science</i> , 2006 , 314, 1764-6	33.3	137
103	Ralph: A Visible/Infrared Imager for the New Horizons Pluto/Kuiper Belt Mission. <i>Space Science Reviews</i> , 2008 , 140, 129-154	7.5	119
102	High heat flow from Enceladus' south polar region measured using 10 μ m Cassini/CIRS data. <i>Journal of Geophysical Research</i> , 2011 , 116,		117
101	Enceladus: An Active Ice World in the Saturn System. <i>Annual Review of Earth and Planetary Sciences</i> , 2013 , 41, 693-717	15.3	113

100	Mass Movement and Landform Degradation on the Icy Galilean Satellites: Results of the Galileo Nominal Mission. <i>Icarus</i> , 1999 , 140, 294-312	3.8	92
99	Io volcanism seen by new horizons: a major eruption of the Tvashtar volcano. <i>Science</i> , 2007 , 318, 240-3	33.3	89
98	Thermal segregation of water ice on the Galilean satellites. <i>Icarus</i> , 1987 , 69, 297-313	3.8	88
97	Convection in a volatile nitrogen-ice-rich layer drives Pluto's geological vigour. <i>Nature</i> , 2016 , 534, 82-5	50.4	81
96	Initial results from the New Horizons exploration of 2014 MU, a small Kuiper Belt object. <i>Science</i> , 2019 , 364,	33.3	80
95	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019 , 363, 955-959	33.3	77
94	Formation of Iapetus' extreme albedo dichotomy by exogenically triggered thermal ice migration. <i>Science</i> , 2010 , 327, 432-5	33.3	72
93	New Horizons: Anticipated Scientific Investigations at the Pluto System. <i>Space Science Reviews</i> , 2008 , 140, 93-127	7.5	71
92	The influence of thermal inertia on temperatures and frost stability on Triton. <i>Icarus</i> , 1992 , 99, 261-272	3.8	69
91	Dunes on Pluto. <i>Science</i> , 2018 , 360, 992-997	33.3	60
90	Basins, fractures and volcanoes: Global cartography and topography of Pluto from New Horizons. <i>Icarus</i> , 2018 , 314, 400-433	3.8	57
89	The temperature and width of an active fissure on Enceladus measured with Cassini VIMS during the 14 April 2012 South Pole flyover. <i>Icarus</i> , 2013 , 226, 1128-1137	3.8	54
88	Enceladus: An Active Cryovolcanic Satellite 2009 , 683-724		54
87	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016 , 351, aad9045	33.3	52
86	Craters of the Pluto-Charon system. <i>Icarus</i> , 2017 , 287, 187-206	3.8	48
85	The orbit, mass, size, albedo, and density of (65489) Ceto/Phorcys: A tidally-evolved binary Centaur. <i>Icarus</i> , 2007 , 191, 286-297	3.8	47
84	Energetic particles in the jovian magnetotail. <i>Science</i> , 2007 , 318, 220-2	33.3	47
83	Interstellar Pickup Ion Observations to 38 au. <i>Astrophysical Journal, Supplement Series</i> , 2017 , 233, 8	8	46

82	Endogenic heat from Enceladus' south polar fractures: New observations, and models of conductive surface heating. <i>Icarus</i> , 2009 , 199, 189-196	3.8	45
81	Geological mapping of Sputnik Planitia on Pluto. <i>Icarus</i> , 2017 , 287, 261-286	3.8	43
80	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020 , 367,	33.3	43
79	Sublimation as a landform-shaping process on Pluto. <i>Icarus</i> , 2017 , 287, 320-333	3.8	42
78	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020 , 367,	33.3	40
77	Violent silicate volcanism on Io in 1996. <i>Geophysical Research Letters</i> , 1997 , 24, 2455-2458	4.9	40
76	Present and past glaciation on Pluto. <i>Icarus</i> , 2017 , 287, 287-300	3.8	39
75	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016 , 539, 65-68	50.4	38
74	Bladed Terrain on Pluto: Possible origins and evolution. <i>Icarus</i> , 2018 , 300, 129-144	3.8	36
73	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020 , 367,	33.3	35
72	Io's atmospheric response to eclipse: UV aurorae observations. <i>Science</i> , 2007 , 318, 237-40	33.3	35
71	High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU69. <i>Astronomical Journal</i> , 2018 , 156, 20	4.9	34
70	Ground-based observations of volcanism on Io in 1999 and early 2000. <i>Journal of Geophysical Research</i> , 2001 , 106, 33129-33139		34
69	Galileo PPR observations of Europa: Hotspot detection limits and surface thermal properties. <i>Icarus</i> , 2010 , 210, 763-769	3.8	32
68	The New Horizons Kuiper Belt Extended Mission. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	29
67	The rapid formation of Sputnik Planitia early in Pluto's history. <i>Nature</i> , 2016 , 540, 97-99	50.4	28
66	Enceladus Plume Structure and Time Variability: Comparison of Cassini Observations. <i>Astrobiology</i> , 2017 , 17, 926-940	3.7	27
65	Charon tectonics. <i>Icarus</i> , 2017 , 287, 161-174	3.8	24

64	Recent cryovolcanism in Virgil Fossae on Pluto. <i>Icarus</i> , 2019 , 330, 155-168	3.8	24
63	Geology before Pluto: Pre-encounter considerations. <i>Icarus</i> , 2015 , 246, 65-81	3.8	24
62	Breaking up is hard to do: Global cartography and topography of Pluto's mid-sized icy Moon Charon from New Horizons. <i>Icarus</i> , 2018 , 315, 124-145	3.8	23
61	The Global Color of Pluto from New Horizons. <i>Astronomical Journal</i> , 2017 , 154, 258	4.9	22
60	Pluto: Pits and mantles on uplands north and east of Sputnik Planitia. <i>Icarus</i> , 2017 , 293, 218-230	3.8	21
59	Simulation of Io's auroral emission: Constraints on the atmosphere in eclipse. <i>Icarus</i> , 2011 , 214, 495-509	3.8	20
58	Surface, Subsurface and Atmosphere Exchanges on the Satellites of the Outer Solar System. <i>Space Science Reviews</i> , 2010 , 153, 375-410	7.5	17
57	Sublimation-driven erosion on Hyperion: Topographic analysis and landform simulation model tests. <i>Icarus</i> , 2012 , 220, 268-276	3.8	16
56	Collecting amino acids in the Enceladus plume. <i>International Journal of Astrobiology</i> , 2019 , 18, 47-59	1.4	16
55	Close Cassini flybys of Saturn's ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. <i>Science</i> , 2019 , 364,	33.3	15
54	The nature and origin of Charon's smooth plains. <i>Icarus</i> , 2019 , 323, 16-32	3.8	14
53	Spatially resolved HST/STIS observations of Io's dayside equatorial atmosphere. <i>Icarus</i> , 2015 , 248, 165-189	3.8	14
52	The Lyman- α Sky Background as Observed by New Horizons. <i>Geophysical Research Letters</i> , 2018 , 45, 8022-8028	4.9	14
51	Student Dust Counter: Status report at 38 AU. <i>Icarus</i> , 2019 , 321, 116-125	3.8	11
50	Io: Eruptions at Pillan, and the time evolution of Pele and Pillan from 1996 to 2015. <i>Icarus</i> , 2016 , 264, 198-212	3.8	11
49	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU69 (Ultima Thule) <i>Geophysical Research Letters</i> , 2018 , 45, 8111-8120	4.9	11
48	Characterizing Io's Pele, Tvashtar and Pillan plumes: Lessons learned from Hubble. <i>Icarus</i> , 2012 , 218, 378-405	3.8	11
47	Phase Curves from the Kuiper Belt: Photometric Properties of Distant Kuiper Belt Objects Observed by New Horizons. <i>Astronomical Journal</i> , 2019 , 158, 123	4.9	10

46	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021 , 906, 77	4.7	10
45	The New Horizons and Hubble Space Telescope search for rings, dust, and debris in the Pluto-Charon system. <i>Icarus</i> , 2018 , 301, 155-172	3.8	9
44	Numerical modeling of endogenic thermal anomalies on Europa. <i>Icarus</i> , 2008 , 195, 378-385	3.8	9
43	Determining the Alpha to Proton Density Ratio for the New Horizons Solar Wind Observations. <i>Astrophysical Journal</i> , 2018 , 866, 85	4.7	9
42	In-flight Performance and Calibration of the LONg Range Reconnaissance Imager (LORRI) for the New Horizons Mission. <i>Publications of the Astronomical Society of the Pacific</i> , 2020 , 132, 035003	5	8
41	Suprathermal Ions in the Outer Heliosphere. <i>Astrophysical Journal</i> , 2019 , 876, 46	4.7	8
40	Io's hot spots in the near-infrared detected by LEISA during the New Horizons flyby. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 2222-2238	4.1	8
39	Photometry of Kuiper belt object (486958) Arrokoth from New Horizons LORRI. <i>Icarus</i> , 2021 , 356, 1137238	3.8	7
38	Investigation of Charon's Craters With Abrupt Terminus Ejecta, Comparisons With Other Icy Bodies, and Formation Implications. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 20-36	4.1	7
37	Lucy Mission to the Trojan Asteroids: Science Goals. <i>Planetary Science Journal</i> , 2021 , 2, 171	2.9	7
36	Geologic Landforms and Chronostratigraphic History of Charon as Revealed by a Hemispheric Geologic Map. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 155-174	4.1	6
35	Phase Curves of Nix and Hydra from the New Horizons Imaging Cameras. <i>Astrophysical Journal Letters</i> , 2018 , 852, L35	7.9	6
34	Influence of Solar Disturbances on Galactic Cosmic Rays in the Solar Wind, Heliosheath, and Local Interstellar Medium: Advanced Composition Explorer, New Horizons, and Voyager Observations. <i>Astrophysical Journal</i> , 2020 , 905, 69	4.7	6
33	The Global Distribution of Active Ionian Volcanoes and Implications for Tidal Heating Models. <i>Astronomical Journal</i> , 2018 , 156, 207	4.9	6
32	Dual-telescope multi-channel thermal-infrared radiometer for outer planet fly-by missions. <i>Acta Astronautica</i> , 2016 , 128, 628-639	2.9	5
31	Detection of a Satellite of the Trojan Asteroid (3548) Eurybates—A Lucy Mission Target. <i>Planetary Science Journal</i> , 2020 , 1, 44	2.9	5
30	The Pluto system after New Horizons 2020 , 271-288		5
29	Persephone: A Pluto-system Orbiter and Kuiper Belt Explorer. <i>Planetary Science Journal</i> , 2021 , 2, 75	2.9	4

28	Lucy Mission to the Trojan Asteroids: Instrumentation and Encounter Concept of Operations. <i>Planetary Science Journal</i> , 2021 , 2, 172	2.9	4
27	Charon: A Brief History of Tides. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006449	4.1	3
26	A Near-surface Temperature Model of Arrokoth. <i>Planetary Science Journal</i> , 2022 , 3, 110	2.9	3
25	Detectability of thermal signatures associated with active formation of chaos terrain on Europa. <i>Earth and Planetary Science Letters</i> , 2013 , 384, 37-41	5.3	2
24	Investigating Possible Spindown of Arrokoth by Collisions with Small Classical Kuiper Belt Objects		2
23	Origins of pits and troughs and degradation on a small primitive planetesimal in the Kuiper Belt: high-resolution topography of (486958) Arrokoth (aka 2014 MU69) from New Horizons. <i>Icarus</i> , 2021 , 356, 113834	3.8	2
22	The Orbit and Density of the Jupiter Trojan Satellite System Eurybates-Queta. <i>Planetary Science Journal</i> , 2021 , 2, 170	2.9	2
21	Detection of Radio Thermal Emission from the Kuiper Belt Object (486958) Arrokoth during the New Horizons Encounter. <i>Planetary Science Journal</i> , 2022 , 3, 109	2.9	2
20	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. <i>Planetary Science Journal</i> , 2022 , 3, 23	2.9	1
19	The Dark Side of Pluto. <i>Planetary Science Journal</i> , 2021 , 2, 214	2.9	1
18	New Horizons Detection of the Local Galactic Lyman- α Background. <i>Astronomical Journal</i> , 2021 , 162, 241	4.9	1
17	Surface, Subsurface and Atmosphere Exchanges on the Satellites of the Outer Solar System. <i>Space Sciences Series of ISSI</i> , 2010 , 373-408	0.1	1
16	Probing the Hill Sphere of (486958) 2014 MU69. II. Hubble Space Telescope Fine Guidance Sensors Observations during the 2018 August 4 Stellar Occultation. <i>Astronomical Journal</i> , 2019 , 158, 168	4.9	1
15	Pluto's Interaction With Energetic Heliospheric Ions. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7413-7424	2.6	1
14	Maps of Tethys' Thermophysical Properties. <i>Icarus</i> , 2019 , 321, 705-714	3.8	1
13	Limits on Dione's Activity Using Cassini/CIRS Data. <i>Geophysical Research Letters</i> , 2018 , 45, 5876	4.9	1
12	Triton: Topography and Geology of a Probable Ocean World with Comparison to Pluto and Charon. <i>Remote Sensing</i> , 2021 , 13, 3476	5	1
11	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022 , 927, L8	7.9	1

10	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. <i>Planetary Science Journal</i> , 2022 , 3, 112	2.9	1
9	Upper Limits on the Escape of Volatiles from (486958) Arrokoth Using New Horizons Alice Ultraviolet Spectrograph Observations. <i>Planetary Science Journal</i> , 2022 , 3, 111	2.9	1
8	Collisions of Small Kuiper Belt Objects With (486958) Arrokoth: Implications for Its Spin Evolution and Bulk Density. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2021JE006961	4.1	0
7	Charon's Far Side Geomorphology. <i>Planetary Science Journal</i> , 2021 , 2, 141	2.9	0
6	High-resolution Search for Kuiper Belt Object Binaries from New Horizons. <i>Planetary Science Journal</i> , 2022 , 3, 46	2.9	0
5	Large-scale cryovolcanic resurfacing on Pluto.. <i>Nature Communications</i> , 2022 , 13, 1542	17.4	0
4	The Diverse Shapes of Dwarf Planet and Large KBO Phase Curves Observed from New Horizons. <i>Planetary Science Journal</i> , 2022 , 3, 95	2.9	0
3	COMMISSION 16: PHYSICAL STUDY OF PLANETS AND SATELLITES. <i>Proceedings of the International Astronomical Union</i> , 2008 , 4, 163-168	0.1	
2	New Horizons: Anticipated Scientific Investigations at the Pluto System 2009 , 93-127		
1	Plans for and initial results from the exploration of the Kuiper belt by New Horizons 2020 , 379-394		