List of Publications by Year in descending order

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111 papers	7,704 citations	38660 50 h-index	53109 85 g-index
113 all docs	113 docs citations	113 times ranked	3707 citing authors

#	Article	IF	Citations
1	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. Planetary Science Journal, 2022, 3, 23.	1.5	3
2	High-resolution Search for Kuiper Belt Object Binaries from New Horizons. Planetary Science Journal, 2022, 3, 46.	1.5	4
3	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. Planetary Science Journal, 2022, 3, 112.	1.5	15
4	Detection of Radio Thermal Emission from the Kuiper Belt Object (486958) Arrokoth during the New Horizons Encounter. Planetary Science Journal, 2022, 3, 109.	1.5	3
5	Snow Crash: Compaction Craters on (486958) Arrokoth and Other Small KBOs, With Implications. Geophysical Research Letters, 2022, 49, .	1.5	3
6	Plutoâ€™s Haze Abundance and Size Distribution from Limb Scatter Observations by MVIC. Planetary Science Journal, 2021, 2, 91.	1.5	5
7	Charon: A Brief History of Tides. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006449.	1.5	4
8	In-flight Performance and Calibration of the LOng Range Reconnaissance Imager (LORRI) for the New Horizons Mission. Publications of the Astronomical Society of the Pacific, 2020, 132, 035003.	1.0	14
9	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	6.0	64
10	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	6.0	76
11	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. Science, 2020, 367, .	6.0	79
12	Pluto's Beating Heart Regulates the Atmospheric Circulation: Results From Highâ€Resolution and Multiyear Numerical Climate Simulations. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006120.	1.5	16
13	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. Astrophysical Journal, 2020, 905, 69.	1.6	15
14	Density of Neutral Hydrogen in the Sun's Interstellar Neighborhood. Astrophysical Journal, 2020, 903, 48.	1.6	56
15	Suprathermal Ions in the Outer Heliosphere. Astrophysical Journal, 2019, 876, 46.	1.6	15
16	Detection of ammonia on Plutoâ€™s surface in a region of geologically recent tectonism. Science Advances, 2019, 5, eaav5731.	4.7	49
17	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. Science, 2019, 364, .	6.0	113
18	Constraining the IMF at Pluto Using New Horizons SWAP Data and Hybrid Simulations. Journal of Geophysical Research: Space Physics, 2019, 124, 1568-1581.	0.8	2

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19	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. Science, 2019, 363, 955-959.	6.0	116
20	New Horizons Photometry of Pluto's Moon Charon. Astrophysical Journal Letters, 2019, 874, L3.	3.0	8
21	Prebiotic Chemistry of Pluto. Astrobiology, 2019, 19, 831-848.	1.5	26
22	Pluto's Interaction With Energetic Heliospheric Ions. Journal of Geophysical Research: Space Physics, 2019, 124, 7413-7424.	0.8	4
23	Determining the Alpha to Proton Density Ratio for the New Horizons Solar Wind Observations. Astrophysical Journal, 2018, 866, 85.	1.6	10
24	The New Horizons Kuiper Belt Extended Mission. Space Science Reviews, 2018, 214, 1.	3.7	35
25	High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU69. Astronomical Journal, 2018, 156, 20.	1.9	39
26	Charon tectonics. Icarus, 2017, 287, 161-174.	1.1	30
27	Rosetta Alice/VIRTIS observations of the water vapour UV electroglow emissions around comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S416-S426.	1.6	12
28	Evidence for Possible Clouds in Plutoâ€™s Present-day Atmosphere. Astronomical Journal, 2017, 154, 43.	1.9	11
29	New Horizons Upper Limits on O₂ in Plutoâ€™s Present Day Atmosphere. Astronomical Journal, 2017, 154, 55.	1.9	7
30	The rapid formation of Sputnik Planitia early in Plutoâ€™s history. Nature, 2016, 540, 97-99.	13.7	34
31	INTERPLANETARY MAGNETIC FIELD SECTOR FROM SOLAR WIND AROUND PLUTO (SWAP) MEASUREMENTS OF HEAVY ION PICKUP NEAR PLUTO. Astrophysical Journal Letters, 2016, 823, L30.	3.0	13
32	THE FIRST HIGH-PHASE OBSERVATIONS OF A KBO: NEW HORIZONS IMAGING OF (15810) 1994 JR₁ FROM THE KUIPER BELT. Astrophysical Journal Letters, 2016, 828, L15.	3.0	14
33	Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto. Nature, 2016, 540, 94-96.	13.7	108
34	The formation of Charonâ€™s red poles from seasonally cold-trapped volatiles. Nature, 2016, 539, 65-68.	13.7	44
35	Pluto's interaction with the solar wind. Journal of Geophysical Research: Space Physics, 2016, 121, 4232-4246.	0.8	32
36	Convection in a volatile nitrogen-ice-rich layer drives Plutoâ€™s geological vigour. Nature, 2016, 534, 82-85.	13.7	102

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37	The atmosphere of Pluto as observed by New Horizons. Science, 2016, 351, aad8866.	6.0	201
38	Plutoâ€™s interaction with its space environment: Solar wind, energetic particles, and dust. Science, 2016, 351, aad9045.	6.0	60
39	The small satellites of Pluto as observed by New Horizons. Science, 2016, 351, aae0030.	6.0	78
40	The geology of Pluto and Charon through the eyes of New Horizons. Science, 2016, 351, 1284-1293.	6.0	219
41	Surface compositions across Pluto and Charon. Science, 2016, 351, aad9189.	6.0	242
42	The Pluto system: Initial results from its exploration by New Horizons. Science, 2015, 350, aad1815.	6.0	407
43	Complex organic molecules in comets C/2012 F6 (Lemmon) and C/2013 R1 (Lovejoy): detection of ethylene glycol and formamide. Astronomy and Astrophysics, 2014, 566, L5.	2.1	101
44	THE VOLATILE COMPOSITION AND ACTIVITY OF COMET 103P/HARTLEY 2 DURING THE EPOXI CLOSEST APPROACH. Astrophysical Journal Letters, 2011, 734, L8.	3.0	59
45	THE CARBON MONOXIDE ABUNDANCE IN COMET 103P/HARTLEY 2 DURING THEEPOXIFLYBY. Astrophysical Journal Letters, 2011, 734, L5.	3.0	54
46	Properties of the nuclei and comae of 10 ecliptic comets from Hubble Space Telescope multi-orbit observationsâ˜…. Monthly Notices of the Royal Astronomical Society, 2011, 412, 1573-1590.	1.6	21
47	ULTRAVIOLET DISCOVERIES AT ASTEROID (21) LUTETIA BY THEROSETTAALICE ULTRAVIOLET SPECTROGRAPH. Astronomical Journal, 2011, 141, 199.	1.9	22
48	EPOXI: COMET 103P/HARTLEY 2 OBSERVATIONS FROM A WORLDWIDE CAMPAIGN. Astrophysical Journal Letters, 2011, 734, L1.	3.0	96
49	Ultraviolet and visible photometry of asteroid (21) Lutetia using the Hubble Space Telescope. Astronomy and Astrophysics, 2010, 518, A4.	2.1	18
50	Stray light performance of the long range reconnaissance imager (LORRI) on the New Horizons Mission. Proceedings of SPIE, 2010, , .	0.8	4
51	THE PARENT VOLATILE COMPOSITION OF 6P/dâ€™ARREST AND A CHEMICAL COMPARISON OF JUPITER-FAMILY COMETS MEASURED AT INFRARED WAVELENGTHS. Astrophysical Journal, 2009, 703, 187-197.	1.6	37
52	Properties of the nuclei and comae of 13 ecliptic comets fromÂHubble Space Telescope snapshot observations. Astronomy and Astrophysics, 2009, 508, 1045-1056.	2.1	41
53	Long-Range Reconnaissance Imager on New Horizons. , 2009, , 189-215.		9
54	Long-Range Reconnaissance Imager on New Horizons. Space Science Reviews, 2008, 140, 189-215.	3.7	145

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55	Overview of the New Horizons Science Payload. Space Science Reviews, 2008, 140, 75-91.	3.7	50
56	The Volatile Composition of Comet 17P/Holmes after Its Extraordinary Outburst. Astrophysical Journal, 2008, 680, 793-802.	1.6	52
57	CHANGING CHARACTERISTICS OF JUPITER'S LITTLE RED SPOT. Astronomical Journal, 2008, 135, 2446-2452.	1.9	33
58	Polar Lightning and Decadal-Scale Cloud Variability on Jupiter. Science, 2007, 318, 226-229.	6.0	52
59	Energetic Particles in the Jovian Magnetotail. Science, 2007, 318, 220-222.	6.0	50
60	Io's Atmospheric Response to Eclipse: UV Aurorae Observations. Science, 2007, 318, 237-240.	6.0	41
61	Jupiter Cloud Composition, Stratification, Convection, and Wave Motion: A View from New Horizons. Science, 2007, 318, 223-225.	6.0	48
62	Io Volcanism Seen by New Horizons: A Major Eruption of the Tvashtar Volcano. Science, 2007, 318, 240-243.	6.0	104
63	Compositional homogeneity in the fragmented comet 73P/Schwassmannâ€“Wachmann 3. Nature, 2007, 448, 172-175.	13.7	95
64	New Constraints on Additional Satellites of the Pluto System. Astronomical Journal, 2006, 132, 614-619.	1.9	17
65	Discovery of two new satellites of Pluto. Nature, 2006, 439, 943-945.	13.7	148
66	A giant impact origin for Pluto's small moons and satellite multiplicity in the Kuiper belt. Nature, 2006, 439, 946-948.	13.7	108
67	The Deep Impact Earth-Based Campaign. Space Science Reviews, 2005, 117, 297-334.	3.7	30
68	Design and fabrication of the New Horizons Long-Range Reconnaissance Imager. , 2005, , .		11
69	Deep Impact: Observations from a Worldwide Earth-Based Campaign. Science, 2005, 310, 265-269.	6.0	182
70	PERSPECTIVE: Not a Rubble Pile?. Science, 2004, 304, 1760b-1762b.	6.0	23
71	The Composition of Cometary Volatiles. , 2004, , 391-424.		262
72	A Search for Argon and O [CSC]vi[/CSC] in Three Comets Using the [ITAL]Far Ultraviolet Spectroscopic Explorer[/ITAL]. Astrophysical Journal, 2002, 576, L95-L98.	1.6	78

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73	Charge Exchange-Induced X-Ray Emission from Comet C/1999 S4 (LINEAR). Science, 2001, 292, 1343-1348.	6.0	128
74	HST and VLT Investigations of the Fragments of Comet C/1999 S4 (LINEAR). Science, 2001, 292, 1329-1333.	6.0	87
75	Outgassing Behavior and Composition of Comet C/1999 S4 (LINEAR) During Its Disruption. Science, 2001, 292, 1339-1343.	6.0	74
76	Spectroscopic Observations of Comet C/1999 H1 (Lee) with the SEST, JCMT, CSO, IRAM, and NanÃ‡ay Radio Telescopes. Astronomical Journal, 2000, 120, 1554-1570.	1.9	56
77	Overview of the [ITAL]Far Ultraviolet Spectroscopic Explorer[/ITAL] Mission. Astrophysical Journal, 2000, 538, L1-L6.	1.6	571
78	On-Orbit Performance of the [ITAL]Far Ultraviolet Spectroscopic Explorer[/ITAL] Satellite. Astrophysical Journal, 2000, 538, L7-L11.	1.6	407
79	The Activity and Size of the Nucleus of Comet Hale-Bopp (C/1995 O1). Science, 1997, 275, 1900-1904.	6.0	96
80	The impact of comet D/Shoemaker-Levy 9 with Jupiter. Symposium - International Astronomical Union, 1997, 178, 205-218.	0.1	0
81	Estimating the Size of Hale-Bopp's Nucleus. Earth, Moon and Planets, 1997, 79, 17-33.	0.3	57
82	Infrared Spectroscopy of Comet Hale-Bopp. Earth, Moon and Planets, 1997, 78, 71-80.	0.3	40
83	Detection of Ozone on Ganymede. Science, 1996, 273, 341-343.	6.0	167
84	Detection of acetylene in the infrared spectrum of comet Hyakutake. Nature, 1996, 383, 606-608.	13.7	154
85	Detection of an oxygen atmosphere on Jupiter's moon Europa. Nature, 1995, 373, 677-679.	13.7	345
86	The Hubble Space Telescope (HST) observing campaign on comet Shoemaker-Levy 9. Science, 1995, 267, 1282-1288.	6.0	91
87	Response of the Io plasma torus to comet Shoemaker-Levy 9. Science, 1995, 267, 1313-1317.	6.0	12
88	HST spectroscopic observations of Jupiter after the collision of comet Shoemaker-Levy 9. Science, 1995, 267, 1307-1313.	6.0	128
89	The albedo spectrum of Europa from 2200 Ã... to 3300 Ã.... Journal of Geophysical Research, 1995, 100, 19057.	3.3	90
90	Abundances of ammonia and carbon disulfide in the Jovian stratosphere following the impact of comet Shoemaker-Levy 9. Geophysical Research Letters, 1995, 22, 1625-1628.	1.5	30

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91	Hubble Space Telescope Observations of Comet P/Shoemaker-Levy 9 (1993e). Science, 1994, 263, 787-791.	6.0	56
92	Detection of CO Cameron band emission in comet P/Hartley 2 (1991 XV) with the Hubble Space Telescope. Astrophysical Journal, 1994, 422, 374.	1.6	88
93	Infrared Spectroscopy of Cometary Parent Molecules. Astrophysics and Space Science Library, 1991, , 93-106.	1.0	11
94	Infrared Spectroscopy of Cometary Parent Molecules. International Astronomical Union Colloquium, 1989, 116, 93-106.	0.1	0
95	The Volatile Composition of Comets. Highlights of Astronomy, 1989, 8, 387-393.	0.0	3
96	The Volatile Composition of Comets. , 1989, , 387-393.		9
97	Airborne infrared spectroscopy of Comet Wilson (1986l) and comparisons with Comet Halley. Astrophysical Journal, 1989, 338, 1106.	1.6	50
98	IUE observations of comet P/Halley: evolution of the ultraviolet spectrum between September 1985 and July 1986. , 1988, , 325-328.		14
99	The ortho-para ratio of water vapor in comet P/Halley. , 1988, , 419-424.		6
100	Kinematic properties of the neutral gas outflow from comet P/Halley. , 1988, , 391-397.		4
101	Infrared investigation of water in comet P/Halley. , 1988, , 411-418.		8
102	Detection of Water Vapor in Halley's Comet. Science, 1986, 232, 1523-1528.	6.0	145
103	IUE observations of comet Halley during the Vega and Giotto encounters. Nature, 1986, 321, 361-363.	13.7	52
104	Is CO2 responsible for the outbursts of comet Halley?. Nature, 1986, 324, 433-436.	13.7	52
105	Post-perihelion observations of water in comet Halley. Nature, 1986, 324, 441-444.	13.7	57
106	Infrared molecular emissions from comets. Astrophysical Journal, 1984, 276, 782.	1.6	75
107	Vibrational and rotational excitation of CO in comets Nonequilibrium calculations. Astrophysical Journal, 1984, 285, 858.	1.6	39
108	Erratum - Infrared Molecular Emissions from Comets. Astrophysical Journal, 1984, 285, 872.	1.6	6

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109	The ultraviolet bands of the CO2/plus/ ion in comets. Astrophysical Journal, 1982, 256, 331.	1.6	32
110	Water production models for comet Bradfield /1979 X/. Astrophysical Journal, 1981, 251, 809.	1.6	47
111	IUE observations of the UV spectrum of comet Bradfield. Nature, 1980, 286, 132-135.	13.7	35