

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	Overview of the [ITAL]Far Ultraviolet Spectroscopic Explorer[/ITAL] Mission. <i>Astrophysical Journal</i> , 2000, 538, L1-L6.	1.6	571
2	On-Orbit Performance of the [ITAL]Far Ultraviolet Spectroscopic Explorer[/ITAL] Satellite. <i>Astrophysical Journal</i> , 2000, 538, L7-L11.	1.6	407
3	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	6.0	407
4	Detection of an oxygen atmosphere on Jupiter's moon Europa. <i>Nature</i> , 1995, 373, 677-679.	13.7	345
5	The Composition of Cometary Volatiles. , 2004, , 391-424.		262
6	Surface compositions across Pluto and Charon. <i>Science</i> , 2016, 351, aad9189.	6.0	242
7	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	6.0	219
8	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	6.0	201
9	Deep Impact: Observations from a Worldwide Earth-Based Campaign. <i>Science</i> , 2005, 310, 265-269.	6.0	182
10	Detection of Ozone on Ganymede. <i>Science</i> , 1996, 273, 341-343.	6.0	167
11	Detection of acetylene in the infrared spectrum of comet Hyakutake. <i>Nature</i> , 1996, 383, 606-608.	13.7	154
12	Discovery of two new satellites of Pluto. <i>Nature</i> , 2006, 439, 943-945.	13.7	148
13	Detection of Water Vapor in Halley's Comet. <i>Science</i> , 1986, 232, 1523-1528.	6.0	145
14	Long-Range Reconnaissance Imager on New Horizons. <i>Space Science Reviews</i> , 2008, 140, 189-215.	3.7	145
15	HST spectroscopic observations of Jupiter after the collision of comet Shoemaker-Levy 9. <i>Science</i> , 1995, 267, 1307-1313.	6.0	128
16	Charge Exchange-Induced X-Ray Emission from Comet C/1999 S4 (LINEAR). <i>Science</i> , 2001, 292, 1343-1348.	6.0	128
17	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019, 363, 955-959.	6.0	116
18	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	6.0	113

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19	A giant impact origin for Pluto's small moons and satellite multiplicity in the Kuiper belt. <i>Nature</i> , 2006, 439, 946-948.	13.7	108
20	Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto. <i>Nature</i> , 2016, 540, 94-96.	13.7	108
21	Io Volcanism Seen by New Horizons: A Major Eruption of the Tvashtar Volcano. <i>Science</i> , 2007, 318, 240-243.	6.0	104
22	Convection in a volatile nitrogen-ice-rich layer drives Pluto's geological vigour. <i>Nature</i> , 2016, 534, 82-85.	13.7	102
23	Complex organic molecules in comets C/2012 F6 (Lemmon) and C/2013 R1 (Lovejoy): detection of ethylene glycol and formamide. <i>Astronomy and Astrophysics</i> , 2014, 566, L5.	2.1	101
24	The Activity and Size of the Nucleus of Comet Hale-Bopp (C/1995 O1). <i>Science</i> , 1997, 275, 1900-1904.	6.0	96
25	EPOXI: COMET 103P/HARTLEY 2 OBSERVATIONS FROM A WORLDWIDE CAMPAIGN. <i>Astrophysical Journal Letters</i> , 2011, 734, L1.	3.0	96
26	Compositional homogeneity in the fragmented comet 73P/Schwassmann-Wachmann 3. <i>Nature</i> , 2007, 448, 172-175.	13.7	95
27	The Hubble Space Telescope (HST) observing campaign on comet Shoemaker-Levy 9. <i>Science</i> , 1995, 267, 1282-1288.	6.0	91
28	The albedo spectrum of Europa from 2200 Å... to 3300 Å... <i>Journal of Geophysical Research</i> , 1995, 100, 19057.	3.3	90
29	Detection of CO Cameron band emission in comet P/Hartley 2 (1991 XV) with the Hubble Space Telescope. <i>Astrophysical Journal</i> , 1994, 422, 374.	1.6	88
30	HST and VLT Investigations of the Fragments of Comet C/1999 S4 (LINEAR). <i>Science</i> , 2001, 292, 1329-1333.	6.0	87
31	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020, 367, .	6.0	79
32	A Search for Argon and O [CSC] in Three Comets Using the Far Ultraviolet Spectroscopic Explorer. <i>Astrophysical Journal</i> , 2002, 576, L95-L98.	1.6	78
33	The small satellites of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aae0030.	6.0	78
34	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	6.0	76
35	Infrared molecular emissions from comets. <i>Astrophysical Journal</i> , 1984, 276, 782.	1.6	75
36	Outgassing Behavior and Composition of Comet C/1999 S4 (LINEAR) During Its Disruption. <i>Science</i> , 2001, 292, 1339-1343.	6.0	74

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37	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	6.0	64
38	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016, 351, aad9045.	6.0	60
39	THE VOLATILE COMPOSITION AND ACTIVITY OF COMET 103P/HARTLEY 2 DURING THE EPOXI CLOSEST APPROACH. <i>Astrophysical Journal Letters</i> , 2011, 734, L8.	3.0	59
40	Post-perihelion observations of water in comet Halley. <i>Nature</i> , 1986, 324, 441-444.	13.7	57
41	Estimating the Size of Hale-Bopp's Nucleus. <i>Earth, Moon and Planets</i> , 1997, 79, 17-33.	0.3	57
42	Hubble Space Telescope Observations of Comet P/Shoemaker-Levy 9 (1993e). <i>Science</i> , 1994, 263, 787-791.	6.0	56
43	Spectroscopic Observations of Comet C/1999 H1 (Lee) with the SEST, JCMT, CSO, IRAM, and Nançay Radio Telescopes. <i>Astronomical Journal</i> , 2000, 120, 1554-1570.	1.9	56
44	Density of Neutral Hydrogen in the Sun's Interstellar Neighborhood. <i>Astrophysical Journal</i> , 2020, 903, 48.	1.6	56
45	THE CARBON MONOXIDE ABUNDANCE IN COMET 103P/HARTLEY 2 DURING THE EPOXI FLYBY. <i>Astrophysical Journal Letters</i> , 2011, 734, L5.	3.0	54
46	IUE observations of comet Halley during the Vega and Giotto encounters. <i>Nature</i> , 1986, 321, 361-363.	13.7	52
47	Is CO ₂ responsible for the outbursts of comet Halley?. <i>Nature</i> , 1986, 324, 433-436.	13.7	52
48	Polar Lightning and Decadal-Scale Cloud Variability on Jupiter. <i>Science</i> , 2007, 318, 226-229.	6.0	52
49	The Volatile Composition of Comet 17P/Holmes after Its Extraordinary Outburst. <i>Astrophysical Journal</i> , 2008, 680, 793-802.	1.6	52
50	Energetic Particles in the Jovian Magnetotail. <i>Science</i> , 2007, 318, 220-222.	6.0	50
51	Overview of the New Horizons Science Payload. <i>Space Science Reviews</i> , 2008, 140, 75-91.	3.7	50
52	Airborne infrared spectroscopy of Comet Wilson (1986I) and comparisons with Comet Halley. <i>Astrophysical Journal</i> , 1989, 338, 1106.	1.6	50
53	Detection of ammonia on Pluto's surface in a region of geologically recent tectonism. <i>Science Advances</i> , 2019, 5, eaav5731.	4.7	49
54	Jupiter Cloud Composition, Stratification, Convection, and Wave Motion: A View from New Horizons. <i>Science</i> , 2007, 318, 223-225.	6.0	48

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55	Water production models for comet Bradfield /1979 X/. <i>Astrophysical Journal</i> , 1981, 251, 809.	1.6	47
56	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	13.7	44
57	Io's Atmospheric Response to Eclipse: UV Aurorae Observations. <i>Science</i> , 2007, 318, 237-240.	6.0	41
58	Properties of the nuclei and comae of 13 ecliptic comets from Hubble Space Telescope snapshot observations. <i>Astronomy and Astrophysics</i> , 2009, 508, 1045-1056.	2.1	41
59	Infrared Spectroscopy of Comet Hale-Bopp. <i>Earth, Moon and Planets</i> , 1997, 78, 71-80.	0.3	40
60	High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU69. <i>Astronomical Journal</i> , 2018, 156, 20.	1.9	39
61	Vibrational and rotational excitation of CO in comets Nonequilibrium calculations. <i>Astrophysical Journal</i> , 1984, 285, 858.	1.6	39
62	THE PARENT VOLATILE COMPOSITION OF 6P/d's ARREST AND A CHEMICAL COMPARISON OF JUPITER-FAMILY COMETS MEASURED AT INFRARED WAVELENGTHS. <i>Astrophysical Journal</i> , 2009, 703, 187-197.	1.6	37
63	IUE observations of the UV spectrum of comet Bradfield. <i>Nature</i> , 1980, 286, 132-135.	13.7	35
64	The New Horizons Kuiper Belt Extended Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	35
65	The rapid formation of Sputnik Planitia early in Pluto's history. <i>Nature</i> , 2016, 540, 97-99.	13.7	34
66	CHANGING CHARACTERISTICS OF JUPITER'S LITTLE RED SPOT. <i>Astronomical Journal</i> , 2008, 135, 2446-2452.	1.9	33
67	Pluto's interaction with the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4232-4246.	0.8	32
68	The ultraviolet bands of the CO ₂ /plus/ ion in comets. <i>Astrophysical Journal</i> , 1982, 256, 331.	1.6	32
69	Abundances of ammonia and carbon disulfide in the Jovian stratosphere following the impact of comet Shoemaker-Levy 9. <i>Geophysical Research Letters</i> , 1995, 22, 1625-1628.	1.5	30
70	The Deep Impact Earth-Based Campaign. <i>Space Science Reviews</i> , 2005, 117, 297-334.	3.7	30
71	Charon tectonics. <i>Icarus</i> , 2017, 287, 161-174.	1.1	30
72	Prebiotic Chemistry of Pluto. <i>Astrobiology</i> , 2019, 19, 831-848.	1.5	26

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73	PERSPECTIVE: Not a Rubble Pile?. <i>Science</i> , 2004, 304, 1760b-1762b.	6.0	23
74	ULTRAVIOLET DISCOVERIES AT ASTEROID (21) LUTETIA BY THE<i>ROSETTA</i>ALICE ULTRAVIOLET SPECTROGRAPH. <i>Astronomical Journal</i> , 2011, 141, 199.	1.9	22
75	Properties of the nuclei and comae of 10 ecliptic comets from Hubble Space Telescope multi-orbit observationsâ€¦... <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 412, 1573-1590.	1.6	21
76	Ultraviolet and visible photometry of asteroid (21) Lutetia using the Hubble Space Telescope. <i>Astronomy and Astrophysics</i> , 2010, 518, A4.	2.1	18
77	New Constraints on Additional Satellites of the Pluto System. <i>Astronomical Journal</i> , 2006, 132, 614-619.	1.9	17
78	Pluto's Beating Heart Regulates the Atmospheric Circulation: Results From Highâ€Resolution and Multiyear Numerical Climate Simulations. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006120.	1.5	16
79	Suprathermal Ions in the Outer Heliosphere. <i>Astrophysical Journal</i> , 2019, 876, 46.	1.6	15
80	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.	1.6	15
81	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. <i>Planetary Science Journal</i> , 2022, 3, 112.	1.5	15
82	THE FIRST HIGH-PHASE OBSERVATIONS OF A KBO: NEW HORIZONS IMAGING OF (15810) 1994 JR₁ FROM THE KUIPER BELT. <i>Astrophysical Journal Letters</i> , 2016, 828, L15.	3.0	14
83	In-flight Performance and Calibration of the Long Range Reconnaissance Imager (LORRI) for the <i>New Horizons</i> Mission. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 035003.	1.0	14
84	IUE observations of comet P/Halley: evolution of the ultraviolet spectrum between September 1985 and July 1986. , 1988, , 325-328.		14
85	INTERPLANETARY MAGNETIC FIELD SECTOR FROM SOLAR WIND AROUND PLUTO (SWAP) MEASUREMENTS OF HEAVY ION PICKUP NEAR PLUTO. <i>Astrophysical Journal Letters</i> , 2016, 823, L30.	3.0	13
86	Response of the Io plasma torus to comet Shoemaker-Levy 9. <i>Science</i> , 1995, 267, 1313-1317.	6.0	12
87	Rosetta Alice/VIRTIS observations of the water vapour UV electroglow emissions around comet 67P/Churyumovâ€Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S416-S426.	1.6	12
88	Design and fabrication of the New Horizons Long-Range Reconnaissance Imager. , 2005, , .		11
89	Evidence for Possible Clouds in Plutoâ€™s Present-day Atmosphere. <i>Astronomical Journal</i> , 2017, 154, 43.	1.9	11
90	Infrared Spectroscopy of Cometary Parent Molecules. <i>Astrophysics and Space Science Library</i> , 1991, , 93-106.	1.0	11

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91	Determining the Alpha to Proton Density Ratio for the New Horizons Solar Wind Observations. <i>Astrophysical Journal</i> , 2018, 866, 85.	1.6	10
92	Long-Range Reconnaissance Imager on New Horizons. , 2009, , 189-215.		9
93	The Volatile Composition of Comets. , 1989, , 387-393.		9
94	New Horizons Photometry of Pluto's Moon Charon. <i>Astrophysical Journal Letters</i> , 2019, 874, L3.	3.0	8
95	Infrared investigation of water in comet P/Halley. , 1988, , 411-418.		8
96	New Horizons Upper Limits on O ₂ in Pluto's Present Day Atmosphere. <i>Astronomical Journal</i> , 2017, 154, 55.	1.9	7
97	The ortho-para ratio of water vapor in comet P/Halley. , 1988, , 419-424.		6
98	Erratum - Infrared Molecular Emissions from Comets. <i>Astrophysical Journal</i> , 1984, 285, 872.	1.6	6
99	Pluto's Haze Abundance and Size Distribution from Limb Scatter Observations by MVIC. <i>Planetary Science Journal</i> , 2021, 2, 91.	1.5	5
100	Stray light performance of the long range reconnaissance imager (LORRI) on the New Horizons Mission. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
101	Pluto's Interaction With Energetic Heliospheric Ions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7413-7424.	0.8	4
102	Charon: A Brief History of Tides. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006449.	1.5	4
103	Kinematic properties of the neutral gas outflow from comet P/Halley. , 1988, , 391-397.		4
104	High-resolution Search for Kuiper Belt Object Binaries from New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 46.	1.5	4
105	The Volatile Composition of Comets. <i>Highlights of Astronomy</i> , 1989, 8, 387-393.	0.0	3
106	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 23.	1.5	3
107	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.	1.5	3
108	Snow Crash: Compaction Craters on (486958) Arrokoth and Other Small KBOs, With Implications. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	3

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109	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
110	Infrared Spectroscopy of Cometary Parent Molecules. International Astronomical Union Colloquium, 1989, 116, 93-106.	0.1	0
111	The impact of comet D/Shoemaker-Levy 9 with Jupiter. Symposium - International Astronomical Union, 1997, 178, 205-218.	0.1	0