Hal A Weaver

List of Publications by Year
in descending order

347 papers	14,915 citations	18887 64 h-index	38517 99 g-index
359 all docs	359 docs citations	359 times ranked	5630 citing authors

#	Article	IF	Citations
1	Volatile Abundances, Extended Coma Sources, and Nucleus Ice Associations in Comet C/2014 Q2 (Lovejoy). Planetary Science Journal, 2022, 3, 6.	1.5	4
2	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. Planetary Science Journal, 2022, 3, 23.	1.5	3
3	High-resolution Search for Kuiper Belt Object Binaries from New Horizons. Planetary Science Journal, 2022, 3, 46.	1.5	4
4	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. Astrophysical Journal Letters, 2022, 927, L8.	3.0	32
5	Large-scale cryovolcanic resurfacing on Pluto. Nature Communications, 2022, 13, 1542.	5.8	15
6	Navigation and Orbit Estimation for New Horizonsâ€™ Arrokoth Flyby: Overview, Results and Lessons Learned. Space Science Reviews, 2022, 218, 1.	3.7	0
7	Student Dust Counter Status Report: The First 50 au. Planetary Science Journal, 2022, 3, 69.	1.5	10
8	The Diverse Shapes of Dwarf Planet and Large KBO Phase Curves Observed from New Horizons. Planetary Science Journal, 2022, 3, 95.	1.5	10
9	A Near-surface Temperature Model of Arrokoth. Planetary Science Journal, 2022, 3, 110.	1.5	9
10	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. Planetary Science Journal, 2022, 3, 112.	1.5	15
11	Upper Limits on the Escape of Volatiles from (486958) Arrokoth Using New Horizons Alice Ultraviolet Spectrograph Observations. Planetary Science Journal, 2022, 3, 111.	1.5	3
12	The Geophysical Environment of (486958) Arrokothâ€”A Small Kuiper Belt Object Explored by New Horizons. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	18
13	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
14	Snow Crash: Compaction Craters on (486958) Arrokoth and Other Small KBOs, With Implications. Geophysical Research Letters, 2022, 49, .	1.5	3
15	Hubble Space Telescope Observations of Active Asteroid P/2020 O1 (Lemmon-PANSTARRS). Astrophysical Journal Letters, 2022, 933, L15.	3.0	3
16	Cryovolcanic flooding in Viking Terra on Pluto. Icarus, 2021, 356, 113786.	1.1	9
17	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. Icarus, 2021, 356, 113834.	1.1	5
18	LORRI observations of waves in Pluto's atmosphere. Icarus, 2021, 356, 113825.	1.1	1

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19	Distribution and energy balance of Plutoâ€™s nitrogen ice, as seen by New Horizons in 2015. Icarus, 2021, 356, 113633.	1.1	6
20	Photometry of Kuiper belt object (486958) Arrokoth from New Horizons LORRI. Icarus, 2021, 356, 113723.	1.1	13
21	A statistical review of light curves and the prevalence of contact binaries in the Kuiper Belt. Icarus, 2021, 356, 114098.	1.1	10
22	Redundancy in the Science Implementation of NASA's Lucy Mission to the Trojan Asteroids. , 2021, , .		1
23	The Volatile Composition of the Inner Coma of Comet 46P/Wirtanen: Coordinated Observations Using iSHELL at the NASA-IRTF and Keck/NIRSPEC-2. Planetary Science Journal, 2021, 2, 54.	1.5	6
24	Cometary Activity Begins at Kuiper Belt Distances: Evidence from C/2017 K2. Astronomical Journal, 2021, 161, 188.	1.9	27
25	Cryogenic Comet Sample Return. , 2021, 53, .		1
26	Morphological comparison of blocks in chaos terrains on Pluto, Europa, and Mars. Icarus, 2021, 356, 113866.	1.1	15
27	Rotational Mass Shedding from Asteroid (6478) Gault. Astrophysical Journal Letters, 2021, 910, L27.	3.0	6
28	Interstellar Pickup Ion Observations Halfway to the Termination Shock. Astrophysical Journal, Supplement Series, 2021, 254, 19.	3.0	33
29	Plutoâ€™s Haze Abundance and Size Distribution from Limb Scatter Observations by MVIC. Planetary Science Journal, 2021, 2, 91.	1.5	5
30	Analysis of Hybrid Gasâ€“Dust Outbursts Observed at 67P/Churyumovâ€“Gerasimenko. Astronomical Journal, 2021, 162, 4.	1.9	2
31	Spatial Distribution of Ultraviolet Emission from Cometary Activity at 67P/Churyumov-Gerasimenko. Astronomical Journal, 2021, 162, 5.	1.9	0
32	Disintegration of Long-period Comet C/2019 Y4 (ATLAS). I. Hubble Space Telescope Observations. Astronomical Journal, 2021, 162, 70.	1.9	7
33	Charonâ€™s Far Side Geomorphology. Planetary Science Journal, 2021, 2, 141.	1.5	2
34	Lucy Mission to the Trojan Asteroids: Science Goals. Planetary Science Journal, 2021, 2, 171.	1.5	54
35	The Orbit and Density of the Jupiter Trojan Satellite System Eurybatesâ€“Queta. Planetary Science Journal, 2021, 2, 170.	1.5	10
36	Lucy Mission to the Trojan Asteroids: Instrumentation and Encounter Concept of Operations. Planetary Science Journal, 2021, 2, 172.	1.5	21

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37	New Horizons Observations of the Cosmic Optical Background. Astrophysical Journal, 2021, 906, 77.	1.6	42
38	The Dark Side of Pluto. Planetary Science Journal, 2021, 2, 214.	1.5	2
39	Collisions of Small Kuiper Belt Objects With (486958) Arrokoth: Implications for Its Spin Evolution and Bulk Density. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006961.	1.5	3
40	New Horizons Detection of the Local Galactic Lyman-Î± Background. Astronomical Journal, 2021, 162, 241.	1.9	7
41	Optical Navigation Preparations for the New Horizons Kuiper-Belt Extended Mission. Journal of the Astronautical Sciences, 2020, 67, 1169-1188.	0.8	1
42	A Quick Method for Removing a CCD Electronic Shutterâ€™s Two-sided Smear. Publications of the Astronomical Society of the Pacific, 2020, 132, 014504.	1.0	2
43	Charon: A Brief History of Tides. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006449.	1.5	4
44	New Horizons Observations of an Ultraviolet Stellar Occultation and Appulse by Plutoâ€™s Atmosphere. Astronomical Journal, 2020, 159, 26.	1.9	3
45	Coma Anisotropy and the Rotation Pole of Interstellar Comet 2I/Borisov. Astrophysical Journal Letters, 2020, 895, L34.	3.0	20
46	Outburst and Splitting of Interstellar Comet 2I/Borisov. Astrophysical Journal Letters, 2020, 896, L39.	3.0	23
47	Hubble Space Telescope Search for Activity in High-perihelion Objects. Astronomical Journal, 2020, 159, 209.	1.9	10
48	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
49	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	6.0	64
50	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	6.0	76
51	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. Science, 2020, 367, .	6.0	79
52	The Nucleus of Interstellar Comet 2I/Borisov. Astrophysical Journal Letters, 2020, 888, L23.	3.0	45
53	Disk-resolved Photometric Properties of Pluto and the Coloring Materials across its Surface. Astronomical Journal, 2020, 159, 74.	1.9	18
54	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

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55	Pluto's Ultraviolet Spectrum, Surface Reflectance, and Airglow Emissions. Astronomical Journal, 2020, 159, 274.	1.9	12
56	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
57	Density of Neutral Hydrogen in the Sun's Interstellar Neighborhood. Astrophysical Journal, 2020, 903, 48.	1.6	56
58	Detection of a Satellite of the Trojan Asteroid (3548) Eurybatesâ€"A Lucy Mission Target. Planetary Science Journal, 2020, 1, 44.	1.5	13
59	The Search for MeV Electrons 2â€“45 au from the Sun with the Alice Instrument Microchannel Plate Detector Aboard New Horizons. Research Notes of the AAS, 2020, 4, 61.	0.3	0
60	Suprathermal Ions in the Outer Heliosphere. Astrophysical Journal, 2019, 876, 46.	1.6	15
61	Phase Curves from the Kuiper Belt: Photometric Properties of Distant Kuiper Belt Objects Observed by New Horizons. Astronomical Journal, 2019, 158, 123.	1.9	14
62	Geologic Landforms and Chronostratigraphic History of Charon as Revealed by a Hemispheric Geologic Map. Journal of Geophysical Research E: Planets, 2019, 124, 155-174.	1.5	11
63	Detection of ammonia on Plutoâ€™s surface in a region of geologically recent tectonism. Science Advances, 2019, 5, eaav5731.	4.7	49
64	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. Science, 2019, 364, .	6.0	113
65	Stellar Occultation by Comet 67P/Churyumovâ€“Gerasimenko Observed with Rosetta's Alice Far-ultraviolet Spectrograph. Astronomical Journal, 2019, 157, 173.	1.9	5
66	A Search for Water Vapor Plumes on Europa using SOFIA. Astrophysical Journal Letters, 2019, 871, L5.	3.0	12
67	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
68	Recent cryovolcanism in Virgil Fossae on Pluto. Icarus, 2019, 330, 155-168.	1.1	45
69	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. Science, 2019, 363, 955-959.	6.0	116
70	New Horizons Photometry of Pluto's Moon Charon. Astrophysical Journal Letters, 2019, 874, L3.	3.0	8
71	Prebiotic Chemistry of Pluto. Astrobiology, 2019, 19, 831-848.	1.5	26
72	Distant Comet C/2017 K2 and the Cohesion Bottleneck. Astronomical Journal, 2019, 157, 65.	1.9	30

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73	Active Asteroid P/2017 S5 (ATLAS). Astronomical Journal, 2019, 157, 54.	1.9	7
74	SpitzerSpace Telescope observations of bilobate comet 8P/Tuttle. Astronomy and Astrophysics, 2019, 632, A104.	2.1	3
75	Pluto's Interaction With Energetic Heliospheric Ions. Journal of Geophysical Research: Space Physics, 2019, 124, 7413-7424.	0.8	4
76	Slowing of the Solar Wind in the Outer Heliosphere. Astrophysical Journal, 2019, 885, 156.	1.6	47
77	The distribution of H2O, CH3OH, and hydrocarbon-ices on Pluto: Analysis of New Horizons spectral images. Icarus, 2019, 331, 148-169.	1.1	21
78	Washboard and fluted terrains on Pluto as evidence for ancient glaciation. Nature Astronomy, 2019, 3, 62-68.	4.2	10
79	Upper Limits for Emissions in the Coma of Comet 67P/Churyumovâ€“Gerasimenko near Perihelion as Measured by Rosettaâ€™s Alice Far-UV Spectrograph. Astronomical Journal, 2019, 158, 252.	1.9	1
80	Evolution of H2O production in comet C/2012 S1 (ISON) as inferred from forbidden oxygen and OH emission. Icarus, 2018, 309, 1-12.	1.1	10
81	An upper limit on Plutoâ€™s ionosphere from radio occultation measurements with New Horizons. Icarus, 2018, 307, 17-24.	1.1	30
82	Far-ultraviolet Spectroscopy of Recent Comets with the Cosmic Origins Spectrograph on the Hubble Space Telescope. Astronomical Journal, 2018, 155, 193.	1.9	15
83	TheÂnitrogenÂcyclesÂonÂPlutoÂoverÂseasonalÂand astronomicalÂtimescales. Icarus, 2018, 309, 277-296.	1.1	54
84	Albedo matters: Understanding runaway albedo variations on Pluto. Icarus, 2018, 303, 1-9.	1.1	17
85	APO Time-resolved Color Photometry of Highly Elongated Interstellar Object 1I/â€˜Oumuamua. Astrophysical Journal Letters, 2018, 852, L2.	3.0	90
86	Phase Curves of Nix and Hydra from the New Horizons Imaging Cameras. Astrophysical Journal Letters, 2018, 852, L35.	3.0	6
87	FUV Spectral Signatures of Molecules and the Evolution of the Gaseous Coma of Comet 67P/Churyumovâ€“Gerasimenko. Astronomical Journal, 2018, 155, 9.	1.9	20
88	The Excited Spin State of 1I/2017 U1 â€˜Oumuamua. Astrophysical Journal Letters, 2018, 856, L21.	3.0	41
89	The New Horizons and Hubble Space Telescope search for rings, dust, and debris in the Pluto-Charon system. Icarus, 2018, 301, 155-172.	1.1	11
90	Bladed Terrain on Pluto: Possible origins and evolution. Icarus, 2018, 300, 129-144.	1.1	47

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91	Ices on Charon: Distribution of H2O and NH3 from New Horizons LEISA observations. Icarus, 2018, 300, 21-32.	1.1	38
92	Structure and composition of Pluto's atmosphere from the New Horizons solar ultraviolet occultation. Icarus, 2018, 300, 174-199.	1.1	90
93	A search for temporal changes on Pluto and Charon. Icarus, 2018, 302, 273-284.	1.1	12
94	Investigation of Charon's Craters With Abrupt Terminus Ejecta, Comparisons With Other Icy Bodies, and Formation Implications. Journal of Geophysical Research E: Planets, 2018, 123, 20-36.	1.5	9
95	Ultraviolet Observations of Coronal Mass Ejection Impact on Comet 67P/Churyumovâ€“Gerasimenko by Rosetta Alice. Astronomical Journal, 2018, 156, 16.	1.9	15
96	Spitzer Observations of Interstellar Object 1I/â€˜Oumuamua. Astronomical Journal, 2018, 156, 261.	1.9	80
97	The Pluto System After New Horizons. Annual Review of Astronomy and Astrophysics, 2018, 56, 357-392.	8.1	72
98	Determining the Alpha to Proton Density Ratio for the New Horizons Solar Wind Observations. Astrophysical Journal, 2018, 866, 85.	1.6	10
99	Composition of Plutoâ€™s small satellites: Analysis of New Horizons spectral images. Icarus, 2018, 315, 30-45.	1.1	49
100	Dunes on Pluto. Science, 2018, 360, 992-997.	6.0	81
101	Breaking up is hard to do: Global cartography and topography of Pluto's mid-sized icy Moon Charon from New Horizons. Icarus, 2018, 315, 124-145.	1.1	29
102	Non-gravitational acceleration in the trajectory of 1I/2017 U1 (â€˜Oumuamua). Nature, 2018, 559, 223-226.	13.7	138
103	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU₆₉ (â€œUltima Thuleâ€). Geophysical Research Letters, 2018, 45, 8111-8120.	1.5	14
104	Development and testing of a pyro-driven launcher for harpoon-based comet sample acquisition. Acta Astronautica, 2018, 152, 218-228.	1.7	7
105	The New Horizons Kuiper Belt Extended Mission. Space Science Reviews, 2018, 214, 1.	3.7	35
106	The Lymanâ€Îł Sky Background as Observed by New Horizons. Geophysical Research Letters, 2018, 45, 8022-8028.	1.5	19
107	The Nucleus of Active Asteroid 311P/(2013 P5) PANSTARRS. Astronomical Journal, 2018, 155, 231.	1.9	14
108	Pluto's haze as a surface material. Icarus, 2018, 314, 232-245.	1.1	50

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109	Methane distribution on Pluto as mapped by the New Horizons Ralph/MVIC instrument. Icarus, 2018, 314, 195-209.	1.1	14
110	Basins, fractures and volcanoes: Global cartography and topography of Pluto from New Horizons. Icarus, 2018, 314, 400-433.	1.1	75
111	High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU69. Astronomical Journal, 2018, 156, 20.	1.9	39
112	Inflight radiometric calibration of New Horizonsâ€™ Multispectral Visible Imaging Camera (MVIC). Icarus, 2017, 287, 140-151.	1.1	14
113	Geological mapping of Sputnik Planitia on Pluto. Icarus, 2017, 287, 261-286.	1.1	52
114	Modeling glacial flow on and onto Plutoâ€™s Sputnik Planitia. Icarus, 2017, 287, 301-319.	1.1	38
115	Haze in Pluto's atmosphere. Icarus, 2017, 290, 112-133.	1.1	72
116	H2O and O2 absorption in the coma of comet 67P/Churyumovâ€“Gerasimenko measured by the Alice far-ultraviolet spectrograph on Rosetta. Monthly Notices of the Royal Astronomical Society, 2017, 469, S158-S177.	1.6	28
117	Anatomy of an Asteroid Breakup: The Case of P/2013 R3. Astronomical Journal, 2017, 153, 223.	1.9	32
118	Pluto: Pits and mantles on uplands north and east of Sputnik Planitia. Icarus, 2017, 293, 218-230.	1.1	24
119	Radio occultation measurements of Plutoâ€™s neutral atmosphere with New Horizons. Icarus, 2017, 290, 96-111.	1.1	74
120	Charon tectonics. Icarus, 2017, 287, 161-174.	1.1	30
121	Physical state and distribution of materials at the surface of Pluto from New Horizons LEISA imaging spectrometer. Icarus, 2017, 287, 229-260.	1.1	99
122	Past epochs of significantly higher pressure atmospheres on Pluto. Icarus, 2017, 287, 47-53.	1.1	54
123	Detection of CO and HCN in Plutoâ€™s atmosphere with ALMA. Icarus, 2017, 286, 289-307.	1.1	89
124	Plutoâ€™s global surface composition through pixel-by-pixel Hapke modeling of New Horizons Ralph/LEISA data. Icarus, 2017, 287, 218-228.	1.1	95
125	A Comet Active Beyond the Crystallization Zone. Astrophysical Journal Letters, 2017, 847, L19.	3.0	36
126	A binary main-belt comet. Nature, 2017, 549, 357-359.	13.7	31

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127	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
128	Evidence for Possible Clouds in Plutoâ€™s Present-day Atmosphere. Astronomical Journal, 2017, 154, 43.	1.9	11
129	Interstellar Pickup Ion Observations to 38 au. Astrophysical Journal, Supplement Series, 2017, 233, 8.	3.0	59
130	The Global Color of Pluto from New Horizons. Astronomical Journal, 2017, 154, 258.	1.9	25
131	New Horizons Upper Limits on O₂ in Plutoâ€™s Present Day Atmosphere. Astronomical Journal, 2017, 154, 55.	1.9	7
132	Constraints on the microphysics of Pluto's photochemical haze from New Horizons observations. Icarus, 2017, 287, 116-123.	1.1	73
133	Global albedos of Pluto and Charon from LORRI New Horizons observations. Icarus, 2017, 287, 207-217.	1.1	82
134	Climate zones on Pluto and Charon. Icarus, 2017, 287, 30-36.	1.1	34
135	Sublimation as a landform-shaping process on Pluto. Icarus, 2017, 287, 320-333.	1.1	51
136	Mean radius and shape of Pluto and Charon from New Horizons images. Icarus, 2017, 287, 12-29.	1.1	105
137	Present and past glaciation on Pluto. Icarus, 2017, 287, 287-300.	1.1	43
138	Long-term surface temperature modeling of Pluto. Icarus, 2017, 287, 37-46.	1.1	55
139	The photochemistry of Pluto's atmosphere as illuminated by New Horizons. Icarus, 2017, 287, 110-115.	1.1	75
140	Charon's light curves, as observed by New Horizonsâ€™ Ralph color camera (MVIC) on approach to the Pluto system. Icarus, 2017, 287, 152-160.	1.1	2
141	New Horizons constraints on Charon's present day atmosphere. Icarus, 2017, 287, 124-130.	1.1	32
142	Craters of the Pluto-Charon system. Icarus, 2017, 287, 187-206.	1.1	59
143	Origin of the Plutoâ€“Charon system: Constraints from the New Horizons flyby. Icarus, 2017, 287, 2-11.	1.1	99
144	The puzzling detection of x-rays from Pluto by Chandra. Icarus, 2017, 287, 103-109.	1.1	19

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145	Evidence of sub-surface energy storage in comet 67P from the outburst of 2016 July 03. Monthly Notices of the Royal Astronomical Society, 2017, 469, s606-s625.	1.6	45
146	Operation and performance of the New Horizons Long-Range Reconnaissance Imager during the Pluto encounter. , 2017, , .		4
147	Hypervolatiles in a Jupiter-family Comet: Observations of 45P/Hondaâ€“Mrkosâ€“PajduÅ¡Ã¡kovÃ¡ Using iSHELL at the NASA-IRTF. Astronomical Journal, 2017, 154, 246.	1.9	34
148	A Mission Plannerâ€™s Perspective: Planning, Development, and Verification of the New Horizons Pluto Flyby Command Sequences. , 2016, , .		3
149	The rapid formation of Sputnik Planitia early in Plutoâ€™s history. Nature, 2016, 540, 97-99.	13.7	34
150	FRAGMENTATION KINEMATICS IN COMET 332P/IKEYAâ€“MURAKAMI. Astrophysical Journal Letters, 2016, 829, L8.	3.0	25
151	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
152	THE NATURE AND FREQUENCY OF THE GAS OUTBURSTS IN COMET 67P/CHURYUMOVâ€“GERASIMENKO OBSERVED BY THE ALICE FAR-ULTRAVIOLET SPECTROGRAPH ON ROSETTA. Astrophysical Journal Letters, 2016, 825, L8.	3.0	31
153	HUBBLE SPACE TELESCOPE OBSERVATIONS OF ACTIVE ASTEROID 324P/La SAGRA. Astronomical Journal, 2016, 152, 77.	1.9	6
154	Emerging trends and a comet taxonomy based on the volatile chemistry measured in thirty comets with high-resolution infrared spectroscopy between 1997 and 2013. Icarus, 2016, 278, 301-332.	1.1	116
155	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
156	The 2016 Feb 19 outburst of comet 67P/CG: an ESA Rosetta multi-instrument study. Monthly Notices of the Royal Astronomical Society, 2016, 462, S220-S234.	1.6	60
157	Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto. Nature, 2016, 540, 94-96.	13.7	108
158	The formation of Charonâ€™s red poles from seasonally cold-trapped volatiles. Nature, 2016, 539, 65-68.	13.7	44
159	THE PROGRESSIVE FRAGMENTATION OF 332P/IKEYAâ€“MURAKAMI. Astrophysical Journal Letters, 2016, 827, L26.	3.0	7
160	Destination pluto: New horizons performance during the approach phase. Acta Astronautica, 2016, 128, 33-43.	1.7	4
161	FAR-ULTRAVIOLET OBSERVATIONS OF COMET C/2012 S1 (ISON) FROM FORTIS. Astronomical Journal, 2016, 152, 65.	1.9	7
162	Pluto's interaction with the solar wind. Journal of Geophysical Research: Space Physics, 2016, 121, 4232-4246.	0.8	32

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163	HUBBLE AND KECK TELESCOPE OBSERVATIONS OF ACTIVE ASTEROID 288P/300163 (2006 VW139). Astronomical Journal, 2016, 151, 12.	1.9	19
164	Convection in a volatile nitrogen-ice-rich layer drives Plutoâ€™s geological vigour. Nature, 2016, 534, 82-85.	13.7	102
165	The compositional evolution of C/2012 S1 (ISON) from ground-based high-resolution infrared spectroscopy as part of a worldwide observing campaign. Icarus, 2016, 266, 152-172.	1.1	24
166	The atmosphere of Pluto as observed by New Horizons. Science, 2016, 351, aad8866.	6.0	201
167	Plutoâ€™s interaction with its space environment: Solar wind, energetic particles, and dust. Science, 2016, 351, aad9045.	6.0	60
168	The small satellites of Pluto as observed by New Horizons. Science, 2016, 351, aae0030.	6.0	78
169	The geology of Pluto and Charon through the eyes of New Horizons. Science, 2016, 351, 1284-1293.	6.0	219
170	Surface compositions across Pluto and Charon. Science, 2016, 351, aad9189.	6.0	242
171	NUCLEUS AND MASS LOSS FROM ACTIVE ASTEROID 313P/GIBBS. Astronomical Journal, 2015, 150, 76.	1.9	16
172	Measurements of the near-nucleus coma of comet 67P/Churyumov-Gerasimenko with the Alice far-ultraviolet spectrograph on Rosetta. Astronomy and Astrophysics, 2015, 583, A8.	2.1	77
173	Far-UV phase dependence and surface characteristics of comet 67P/Churyumov-Gerasimenko as observed with Rosetta Alice. Astronomy and Astrophysics, 2015, 583, A27.	2.1	12
174	NEW ACTIVE ASTEROID 313P/GIBBS. Astronomical Journal, 2015, 149, 81.	1.9	22
175	EPISODIC EJECTION FROM ACTIVE ASTEROID 311P/PANSTARRS. Astrophysical Journal, 2015, 798, 109.	1.6	29
176	First extreme and far ultraviolet spectrum of a Comet Nucleus: Results from 67P/Churyumov-Gerasimenko. Icarus, 2015, 256, 117-119.	1.1	16
177	The Pluto system: Initial results from its exploration by New Horizons. Science, 2015, 350, aad1815.	6.0	407
178	New Horizons: Long-range Kuiper Belt targets observed by the Hubble Space Telescope. Icarus, 2015, 246, 369-374.	1.1	3
179	Geology before Pluto: Pre-encounter considerations. Icarus, 2015, 246, 65-81.	1.1	29
180	The surface compositions of Pluto and Charon. Icarus, 2015, 246, 82-92.	1.1	94

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