

Anne J Verbiscer

List of Publications by Year in descending order

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73
papers

3,305
citations

147726

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76
all docs

76
docs citations

76
times ranked

1916
citing authors

#	ARTICLE	IF	CITATIONS
1	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	6.0	407
2	Surface compositions across Pluto and Charon. <i>Science</i> , 2016, 351, aad9189.	6.0	242
3	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	6.0	219
4	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	6.0	201
5	Saturn's largest ring. <i>Nature</i> , 2009, 461, 1098-1100.	13.7	134
6	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	6.0	113
7	Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto. <i>Nature</i> , 2016, 540, 94-96.	13.7	108
8	Physical state and distribution of materials at the surface of Pluto from New Horizons LEISA imaging spectrometer. <i>Icarus</i> , 2017, 287, 229-260.	1.1	99
9	Enceladus: Cosmic Graffiti Artist Caught in the Act. <i>Science</i> , 2007, 315, 815-815.	6.0	98
10	Pluto's global surface composition through pixel-by-pixel Hapke modeling of New Horizons Ralph/LEISA data. <i>Icarus</i> , 2017, 287, 218-228.	1.1	95
11	Re-Analysis of the Solar Phase Curves of the Icy Galilean Satellites. <i>Icarus</i> , 1997, 128, 49-74.	1.1	85
12	Global albedos of Pluto and Charon from LORRI New Horizons observations. <i>Icarus</i> , 2017, 287, 207-217.	1.1	82
13	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020, 367, .	6.0	79
14	The small satellites of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aae0030.	6.0	78
15	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	6.0	76
16	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	6.0	64
17	The opposition surge of Enceladus: HST observations 338–1022 nm. <i>Icarus</i> , 2005, 173, 66-83.	1.1	59
18	A high-amplitude thermal inertia anomaly of probable magnetospheric origin on Saturn's moon Mimas. <i>Icarus</i> , 2011, 216, 221-226.	1.1	57

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19	Composition of Pluto's small satellites: Analysis of New Horizons spectral images. <i>Icarus</i> , 2018, 315, 30-45.	1.1	49
20	Detection of ammonia on Pluto's surface in a region of geologically recent tectonism. <i>Science Advances</i> , 2019, 5, eaav5731.	4.7	49
21	Albedo dichotomy of Rhea: Hapke analysis of Voyager photometry. <i>Icarus</i> , 1989, 82, 336-353.	1.1	47
22	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	13.7	44
23	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021, 906, 77.	1.6	42
24	Voyager Disk-Integrated Photometry of Triton. <i>Science</i> , 1990, 250, 419-421.	6.0	41
25	Scattering properties of natural snow and frost: Comparison with icy satellite photometry. <i>Icarus</i> , 1990, 88, 418-428.	1.1	39
26	High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU69. <i>Astronomical Journal</i> , 2018, 156, 20.	1.9	39
27	Backscattering from frost on icy satellites in the outer Solar System. <i>Nature</i> , 1990, 347, 162-164.	13.7	38
28	Ices on Charon: Distribution of H ₂ O and NH ₃ from New Horizons LEISA observations. <i>Icarus</i> , 2018, 300, 21-32.	1.1	38
29	The Scattering Properties of Natural Terrestrial Snows versus Icy Satellite Surfaces. <i>Icarus</i> , 1997, 128, 28-48.	1.1	34
30	Mimas: Photometric roughness and albedo map. <i>Icarus</i> , 1992, 99, 63-69.	1.1	33
31	Photometry of Triton 1992-2004: Surface volatile transport and discovery of a remarkable opposition surge. <i>Icarus</i> , 2011, 212, 835-846.	1.1	33
32	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	3.0	32
33	Mutual events in the Cold Classical transneptunian binary system Sila and Nunam. <i>Icarus</i> , 2012, 220, 74-83.	1.1	28
34	Reflectance Spectroscopy of Icy Surfaces. <i>Astrophysics and Space Science Library</i> , 1998, , 157-197.	1.0	26
35	A Photometric Study of Enceladus. <i>Icarus</i> , 1994, 110, 155-164.	1.1	25
36	Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations. <i>Astronomical Journal</i> , 2020, 159, 130.	1.9	25

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37	Thermophysical property variations across Dione and Rhea. <i>Icarus</i> , 2014, 241, 239-247.	1.1	23
38	The distribution of H ₂ O, CH ₃ OH, and hydrocarbon-ices on Pluto: Analysis of New Horizons spectral images. <i>Icarus</i> , 2019, 331, 148-169.	1.1	21
39	Disk-resolved Photometric Properties of Pluto and the Coloring Materials across its Surface. <i>Astronomical Journal</i> , 2020, 159, 74.	1.9	18
40	The Geophysical Environment of (486958) Arrokoth—A Small Kuiper Belt Object Explored by <i>New Horizons</i>. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	18
41	Small particles dominate Saturn’s Phoebe ring to surprisingly large distances. <i>Nature</i> , 2015, 522, 185-187.	13.7	16
42	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
43	THE FIRST HIGH-PHASE OBSERVATIONS OF A KBO: NEW HORIZONS IMAGING OF (15810) 1994 JR ₁ FROM THE KUIPER BELT. <i>Astrophysical Journal Letters</i> , 2016, 828, L15.	3.0	14
44	Inflight radiometric calibration of New Horizons’s Multispectral Visible Imaging Camera (MVIC). <i>Icarus</i> , 2017, 287, 140-151.	1.1	14
45	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU ₆₉ (’Ultima Thule’). <i>Geophysical Research Letters</i> , 2018, 45, 8111-8120.	1.5	14
46	Phase Curves from the Kuiper Belt: Photometric Properties of Distant Kuiper Belt Objects Observed by New Horizons. <i>Astronomical Journal</i> , 2019, 158, 123.	1.9	14
47	The HST lightcurve of (486958) 2014 MU ₆₉ . <i>Icarus</i> , 2019, 334, 11-21.	1.1	13
48	Photometry of Kuiper belt object (486958) Arrokoth from New Horizons LORRI. <i>Icarus</i> , 2021, 356, 113723.	1.1	13
49	The color and binarity of (486958) 2014 MU ₆₉ and other long-range New Horizons Kuiper Belt targets. <i>Icarus</i> , 2019, 334, 22-29.	1.1	12
50	Comparing Phoebe’s 2005 opposition surge in four visible light filters. <i>Icarus</i> , 2011, 212, 819-834.	1.1	11
51	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.	1.1	11
52	A statistical review of light curves and the prevalence of contact binaries in the Kuiper Belt. <i>Icarus</i> , 2021, 356, 114098.	1.1	10
53	The Diverse Shapes of Dwarf Planet and Large KBO Phase Curves Observed from New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 95.	1.5	10
54	A Near-surface Temperature Model of Arrokoth. <i>Planetary Science Journal</i> , 2022, 3, 110.	1.5	9

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55	New Horizons Photometry of Pluto's Moon Charon. <i>Astrophysical Journal Letters</i> , 2019, 874, L3.	3.0	8
56	Photometric Analyses of Saturn's Small Moons: Aegaeon, Methone, and Pallene Are Dark; Helene and Calypso Are Bright. <i>Astronomical Journal</i> , 2020, 159, 129.	1.9	8
57	Spitzer's Solar System studies of asteroids, planets and the zodiacal cloud. <i>Nature Astronomy</i> , 2020, 4, 940-946.	4.2	7
58	Persephone: A Pluto-system Orbiter and Kuiper Belt Explorer. <i>Planetary Science Journal</i> , 2021, 2, 75.	1.5	7
59	Size and Shape of (11351) Leucus from Five Occultations. <i>Planetary Science Journal</i> , 2021, 2, 202.	1.5	7
60	Estimating phase integrals: A generalization of Russell's law. <i>Icarus</i> , 1988, 73, 324-329.	1.1	6
61	The UT 7/8 February 2013 Sila's "Nunam mutual event & future predictions. <i>Icarus</i> , 2014, 229, 423-427.	1.1	6
62	Phase Curves of Nix and Hydra from the New Horizons Imaging Cameras. <i>Astrophysical Journal Letters</i> , 2018, 852, L35.	3.0	6
63	The rotational light curve of (79360) Sila's "Nunam, an eclipsing binary in the Kuiper Belt. <i>Icarus</i> , 2014, 236, 72-82.	1.1	5
64	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.	1.1	5
65	Pluto's Sputnik Planitia: Composition of geological units from infrared spectroscopy. <i>Icarus</i> , 2021, 359, 114303.	1.1	5
66	Photometric Properties of Solar System Ices. <i>Astrophysics and Space Science Library</i> , 2013, , 47-72.	1.0	5
67	Evaluation of short-term temporal evolution of Pluto's surface composition from 2014-2017 with APO/TripleSpec. <i>Icarus</i> , 2022, 373, 114729.	1.1	4
68	New or Increased Cometary Activity in (2060) 95P/Chiron. <i>Research Notes of the AAS</i> , 2021, 5, 211.	0.3	3
69	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 23.	1.5	3
70	Charon's light curves, as observed by New Horizons's Ralph color camera (MVIC) on approach to the Pluto system. <i>Icarus</i> , 2017, 287, 152-160.	1.1	2
71	Limits on Dione's Activity Using Cassini/CIRS Data. <i>Geophysical Research Letters</i> , 2018, 45, 5876-5898.	1.5	2
72	The Complex Rotational Light Curve of (385446) Manwã's "Thorondor, a Multicomponent Eclipsing System in the Kuiper Belt. <i>Astronomical Journal</i> , 2020, 159, 27.	1.9	1

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73	On Charon's Far-ultraviolet Surface Reflectance. Planetary Science Journal, 2021, 2, 164.	1.5	0