Dale Cruikshank

List of Publications by Year
in descending order

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75 papers	5,419 citations	76294 40 h-index	79644 73 g-index
75 all docs	75 docs citations	75 times ranked	2775 citing authors

#	Article	IF	Citations
1	The Pluto system: Initial results from its exploration by New Horizons. Science, 2015, 350, aad1815.	6.0	407
2	The Cassini Visual And Infrared Mapping Spectrometer (Vims) Investigation. Space Science Reviews, 2004, 115, 111-168.	3.7	369
3	Laboratory experiments of Titan tholin formed in cold plasma at various pressures: implications for nitrogen-containing polycyclic aromatic compounds in Titan haze. Icarus, 2004, 168, 344-366.	1.1	284
4	Ices on the Surface of Triton. Science, 1993, 261, 742-745.	6.0	263
5	Surface compositions across Pluto and Charon. Science, 2016, 351, aad9189.	6.0	242
6	The geology of Pluto and Charon through the eyes of New Horizons. Science, 2016, 351, 1284-1293.	6.0	219
7	The atmosphere of Pluto as observed by New Horizons. Science, 2016, 351, aad8866.	6.0	201
8	Composition and Physical Properties of Enceladus' Surface. Science, 2006, 311, 1425-1428.	6.0	199
9	Detection of ozone on Saturn's satellites Rhea and Dione. Nature, 1997, 388, 45-47.	13.7	171
10	OPTICAL CONSTANTS OF AMORPHOUS AND CRYSTALLINE H₂O-ICE: 2.5-22 Î¼m (4000-455) Tj ETQq0 0 0 rgBT /Overlock 1347-1356.	1.6	150
11	Significance of absorption features in Io's IR reflectance spectrum. Nature, 1979, 280, 761-763.	13.7	142
12	The surface composition of Iapetus: Mapping results from Cassini VIMS. Icarus, 2012, 218, 831-860.	1.1	136
13	Compositional mapping of Saturn's satellite Dione with Cassini VIMS and implications of dark material in the Saturn system. Icarus, 2008, 193, 372-386.	1.1	135
14	NEAR-INFRARED SPECTROSCOPY OF TROJAN ASTEROIDS: EVIDENCE FOR TWO COMPOSITIONAL GROUPS. Astronomical Journal, 2011, 141, 25.	1.9	129
15	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. Science, 2019, 363, 955-959.	6.0	116
16	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. Science, 2019, 364, .	6.0	113
17	Physical properties of the natural satellites. Space Science Reviews, 1974, 15, 641.	3.7	102
18	Solid Cî—¼N bearing material on outer solar system bodies. Icarus, 1991, 94, 345-353.	1.1	100

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19	Near-infrared (0.8â€“4.0Â$mathsf{mu}$m) spectroscopy of Mimas, Enceladus, Tethys, and Rhea. Astronomy and Astrophysics, 2005, 435, 353-362.	2.1	94
20	The Uranian satellites: Surface compositions and opposition brightness surges. Icarus, 1983, 55, 83-92.	1.1	92
21	Near-infrared studies of the satellites of Saturn and Uranus. Icarus, 1980, 41, 246-258.	1.1	87
22	Hydrocarbons on Saturn's satellites Iapetus and Phoebe. Icarus, 2008, 193, 334-343.	1.1	86
23	Tholins as coloring agents on outer Solar System bodies. Advances in Space Research, 2005, 36, 178-183.	1.2	79
24	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. Science, 2020, 367, .	6.0	79
25	The small satellites of Pluto as observed by New Horizons. Science, 2016, 351, aae0030.	6.0	78
26	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	6.0	76
27	The 2.5â€“5.0 Î¼m spectra of Io: Evidence for H2S and H2O frozen in SO2. Icarus, 1990, 83, 66-82.	1.1	73
28	Near-infrared laboratory spectra of solid HO/CO and CHOH/CO ice mixtures. Icarus, 2005, 179, 527-534.	1.1	71
29	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	6.0	64
30	Dioneâ€™s spectral and geological properties. Icarus, 2010, 206, 631-652.	1.1	61
31	ICE CHEMISTRY ON OUTER SOLAR SYSTEM BODIES: ELECTRON RADIOLYSIS OF N₂-, CH₄-, AND CO-CONTAINING ICES. Astrophysical Journal, 2015, 812, 150.	1.6	59
32	Lunar rilles and Hawaiian volcanic features: Possible analogues. The Moon, 1972, 3, 412-447.	0.4	57
33	Composition of Plutoâ€™s small satellites: Analysis of New Horizons spectral images. Icarus, 2018, 315, 30-45.	1.1	49
34	Detection of ammonia on Plutoâ€™s surface in a region of geologically recent tectonism. Science Advances, 2019, 5, eaav5731.	4.7	49
35	ICE CHEMISTRY ON OUTER SOLAR SYSTEM BODIES: CARBOXYLIC ACIDS, NITRILES, AND UREA DETECTED IN REFRACTORY RESIDUES PRODUCED FROM THE UV PHOTOLYSIS OF N₂:CH₄:CO-CONTAINING ICES. Astrophysical Journal, 2014, 788, 111.	1.6	48
36	Bladed Terrain on Pluto: Possible origins and evolution. Icarus, 2018, 300, 129-144.	1.1	47

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37	Recent cryovolcanism in Virgil Fossae on Pluto. Icarus, 2019, 330, 155-168.	1.1	45
38	The formation of Charonâ€™s red poles from seasonally cold-trapped volatiles. Nature, 2016, 539, 65-68.	13.7	44
39	The Uranian satellites: Water ice on Ariel and Umbriel. Icarus, 1981, 45, 607-611.	1.1	42
40	Search for volatiles on icy satellites. Icarus, 1988, 74, 262-271.	1.1	41
41	Evidence for Ammonia-bearing Species on the Uranian Satellite Ariel Supports Recent Geologic Activity. Astrophysical Journal Letters, 2020, 898, L22.	3.0	38
42	Surface characterization of Pluto and Charon by L and M band spectra. Astronomy and Astrophysics, 2008, 490, 365-375.	2.1	37
43	Diameters and albedos of satellites of Uranus. Nature, 1982, 300, 423-425.	13.7	35
44	Identification of a new class of satellites in the outer solar system. Astrophysical Journal, 1977, 217, 1006.	1.6	32
45	Organic materials in planetary and protoplanetary systems: nature or nurture?. Astronomy and Astrophysics, 2011, 533, A98.	2.1	27
46	Prebiotic Chemistry of Pluto. Astrobiology, 2019, 19, 831-848.	1.5	26
47	The Global Color of Pluto from New Horizons. Astronomical Journal, 2017, 154, 258.	1.9	25
48	Diameters of Triton and Pluto. Nature, 1982, 300, 425-427.	13.7	22
49	(50000) Quaoar: Surface composition variability. Astronomy and Astrophysics, 2015, 584, A107.	2.1	21
50	The distribution of H2O, CH3OH, and hydrocarbon-ices on Pluto: Analysis of New Horizons spectral images. Icarus, 2019, 331, 148-169.	1.1	21
51	Triton, Pluto, Centaurs, and Trans-Neptunian Bodies. Space Science Reviews, 2005, 116, 421-439.	3.7	20
52	Impact craters: An ice study on Rhea. Icarus, 2015, 261, 80-90.	1.1	20
53	Infrared spectrum of Io, 2.8â€“5.2 Î¼m. Icarus, 1980, 41, 240-245.	1.1	18
54	Disk-resolved Photometric Properties of Pluto and the Coloring Materials across its Surface. Astronomical Journal, 2020, 159, 74.	1.9	18

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55	Probing the regoliths of the classical Uranian satellites: Are their surfaces mantled by a layer of tiny H2O ice grains?. Icarus, 2020, 338, 113513.	1.1	15
56	Large-scale cryovolcanic resurfacing on Pluto. Nature Communications, 2022, 13, 1542.	5.8	15
57	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. Planetary Science Journal, 2022, 3, 112.	1.5	15
58	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
59	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
60	The thermal structure of Triton's atmosphere: Preâ€Voyager models. Geophysical Research Letters, 1989, 16, 973-976.	1.5	9
61	Spitzerâ€™s Solar System studies of comets, centaurs and Kuiper belt objects. Nature Astronomy, 2020, 4, 930-939.	4.2	9
62	Cryovolcanic flooding in Viking Terra on Pluto. Icarus, 2021, 356, 113786.	1.1	9
63	Evidence for Sulfur-bearing Species on Callistoâ€™s Leading Hemisphere: Sourced from Jupiterâ€™s Irregular Satellites or Io?. Astrophysical Journal Letters, 2020, 902, L38.	3.0	9
64	A CO₂ Cycle on Ariel? Radiolytic Production and Migration to Low-latitude Cold Traps. Planetary Science Journal, 2022, 3, 8.	1.5	9
65	Spitzerâ€™s Solar System studies of asteroids, planets and the zodiacal cloud. Nature Astronomy, 2020, 4, 940-946.	4.2	7
66	Organic Components of Small Bodies in the Outer Solar System: Some Results of the New Horizons Mission. Life, 2020, 10, 126.	1.1	7
67	Compositional Study of Trans-Neptunian Objects at Î»Â>Â2.2 Î¼m. Planetary Science Journal, 2021, 2, 10.	1.5	7
68	Triton: Topography and Geology of a Probable Ocean World with Comparison to Pluto and Charon. Remote Sensing, 2021, 13, 3476.	1.8	7
69	Dioneâ€™s Wispy Terrain: A Cryovolcanic Story?. Planetary Science Journal, 2021, 2, 83.	1.5	6
70	The Satellites of Uranus. International Astronomical Union Colloquium, 1982, 60, 193-210.	0.1	4
71	The Infrared Complex Refractive Index of Amorphous Ammonia Ice at 40 K (1.43â€“22.73 Î¼m) and Its Relevance to Outer Solar System Bodies. Planetary Science Journal, 2021, 2, 240.	1.5	3
72	New Investigations of Dark-floored Pits In the Volatile Ice of Sputnik Planitia on Pluto. Astronomical Journal, 2021, 162, 207.	1.9	2

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73	Optical and chemical properties of tholins. Proceedings of the International Astronomical Union, 2008, 4, 441-442.	0.0	1
74	Kuiper Belt object 2014MU₆₉, Pluto and Phoebe as windows on the composition of the early solar nebula. Proceedings of the International Astronomical Union, 2019, 15, 91-95.	0.0	1
75	Spectroscopy of Pluto and Its Satellites. , 2019, , 442-452.		0