

# Darrell F Strobel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2847405/publications.pdf>

Version: 2024-02-01

256  
papers

15,334  
citations

11651

70  
h-index

24258

110  
g-index

257  
all docs

257  
docs citations

257  
times ranked

4600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme Ultraviolet Observations from Voyager 1 Encounter with Jupiter. <i>Science</i> , 1979, 204, 979-982.	12.6	493
2	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	12.6	407
3	Transient Water Vapor at Europa's South Pole. <i>Science</i> , 2014, 343, 171-174.	12.6	401
4	Extreme Ultraviolet Observations from Voyager 1 Encounter with Saturn. <i>Science</i> , 1981, 212, 206-211.	12.6	397
5	Detection of an oxygen atmosphere on Jupiter's moon Europa. <i>Nature</i> , 1995, 373, 677-679.	27.8	345
6	Titan's Atmospheric Temperatures, Winds, and Composition. <i>Science</i> , 2005, 308, 975-978.	12.6	318
7	Ultraviolet Spectrometer Observations of Neptune and Triton. <i>Science</i> , 1989, 246, 1459-1466.	12.6	308
8	The Far-Ultraviolet Oxygen Airglow of Europa and Ganymede. <i>Astrophysical Journal</i> , 1998, 499, 475-481.	4.5	239
9	Overview of the Voyager ultraviolet spectrometry results through Jupiter encounter. <i>Journal of Geophysical Research</i> , 1981, 86, 8259-8284.	3.3	230
10	Clouds, aerosols, and photochemistry in the Jovian atmosphere. <i>Icarus</i> , 1986, 65, 161-217.	2.5	227
11	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	12.6	219
12	Parameterization of the atmospheric heating rate from 15 to 120 km due to O <sub>2</sub> and O <sub>3</sub> absorption of solar radiation. <i>Journal of Geophysical Research</i> , 1978, 83, 6225-6230.	3.3	217
13	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
14	Ultraviolet Spectrometer Observations of Uranus. <i>Science</i> , 1986, 233, 74-79.	12.6	194
15	Temperatures, Winds, and Composition in the Saturnian System. <i>Science</i> , 2005, 307, 1247-1251.	12.6	184
16	Extreme Ultraviolet Observations from the Voyager 2 Encounter with Saturn. <i>Science</i> , 1982, 215, 548-553.	12.6	179
17	Interaction of the Jovian magnetosphere with Europa: Constraints on the neutral atmosphere. <i>Journal of Geophysical Research</i> , 1998, 103, 19947-19962.	3.3	175
18	New perspectives on Titan's upper atmosphere from a reanalysis of the Voyager 1 UVS solar occultations. <i>Icarus</i> , 2004, 170, 91-112.	2.5	174

#	ARTICLE	IF	CITATIONS
19	EUV emission from Titan's upper atmosphere: Voyager 1 encounter. <i>Journal of Geophysical Research</i> , 1982, 87, 1361-1368.	3.3	166
20	Chemistry and evolution of Titan's atmosphere. <i>Planetary and Space Science</i> , 1982, 30, 839-848.	1.7	160
21	Io plasma torus electrons: Voyager 1. <i>Journal of Geophysical Research</i> , 1987, 92, 5741-5762.	3.3	156
22	Extreme Ultraviolet Observations from Voyager 2 Encounter with Jupiter. <i>Science</i> , 1979, 206, 962-966.	12.6	151
23	Titan's upper atmosphere: Composition and temperature from the EUV solar occultation results. <i>Journal of Geophysical Research</i> , 1982, 87, 1351-1359.	3.3	149
24	The search for a subsurface ocean in Ganymede with Hubble Space Telescope observations of its auroral ovals. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1715-1737.	2.4	128
25	Three-dimensional plasma simulation of Io's interaction with the Io plasma torus: Asymmetric plasma flow. <i>Journal of Geophysical Research</i> , 1999, 104, 25105-25126.	3.3	126
26	Carbon Monoxide on Jupiter: Evidence for Both Internal and External Sources. <i>Icarus</i> , 2002, 159, 95-111.	2.5	126
27	The Zonally Averaged Circulation of the Middle Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1978, 35, 577-591.	1.7	123
28	Titan's upper atmosphere: Structure and ultraviolet emissions. <i>Icarus</i> , 1992, 100, 512-526.	2.5	120
29	Implications of Satellite OH Observations for Middle Atmospheric H <sub>2</sub> O and Ozone. <i>Science</i> , 1997, 277, 1967-1970.	12.6	114
30	Initial results from the New Horizons exploration of 2014 MU <sub>69</sub> , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	12.6	113
31	Ultraviolet spectrometer experiment for the Voyager mission. <i>Space Science Reviews</i> , 1977, 21, 183.	8.1	112
32	Production and diffusion of nitric oxide. <i>Journal of Geophysical Research</i> , 1970, 75, 4307-4321.	3.3	108
33	On the Vertical Thermal Structure of Pluto's Atmosphere. <i>Icarus</i> , 1996, 120, 266-289.	2.5	108
34	Venus nighttime hydrogen bulge. <i>Geophysical Research Letters</i> , 1980, 7, 865-868.	4.0	105
35	A numerical model of gravity wave breaking and stress in the mesosphere. <i>Journal of Geophysical Research</i> , 1983, 88, 5249-5259.	3.3	105
36	Exospheres and Atmospheric Escape. <i>Space Science Reviews</i> , 2008, 139, 355-397.	8.1	103

#	ARTICLE	IF	CITATIONS
37	HST/STIS Ultraviolet Imaging of Polar Aurora on Ganymede. <i>Astrophysical Journal</i> , 2000, 535, 1085-1090.	4.5	102
38	Volcanically emitted sodium chloride as a source for Io's neutral clouds and plasma torus. <i>Nature</i> , 2003, 421, 45-47.	27.8	102
39	The photochemistry of hydrocarbons in the atmosphere of Titan. <i>Icarus</i> , 1974, 21, 466-470.	2.5	99
40	Far-Ultraviolet Imaging Spectroscopy of Io's Atmosphere with HST/STIS. <i>Science</i> , 1999, 283, 353-357.	12.6	99
41	The nighttime ionosphere: <i>E</i> region and lower <i>F</i> region. <i>Journal of Geophysical Research</i> , 1974, 79, 3171-3178.	3.3	96
42	The F2-layer at middle latitudes. <i>Planetary and Space Science</i> , 1970, 18, 1181-1202.	1.7	94
43	The Photochemistry of Hydrocarbons in the Jovian Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1973, 30, 489-498.	1.7	91
44	Chemical and thermal response of Jupiter's atmosphere following the impact of comet Shoemaker-Levy 9. <i>Nature</i> , 1995, 373, 592-595.	27.8	90
45	Structure and composition of Pluto's atmosphere from the New Horizons solar ultraviolet occultation. <i>Icarus</i> , 2018, 300, 174-199.	2.5	90
46	Detection of CO and HCN in Pluto's atmosphere with ALMA. <i>Icarus</i> , 2017, 286, 289-307.	2.5	89
47	Detection of the SO <sub>2</sub> Atmosphere on Io with the Hubble Space Telescope. <i>Icarus</i> , 1994, 111, 2-17.	2.5	88
48	An equatorial oscillation in Saturn's middle atmosphere. <i>Nature</i> , 2008, 453, 200-202.	27.8	88
49	Diurnal variation of nitric oxide in the upper atmosphere. <i>Journal of Geophysical Research</i> , 1971, 76, 2441-2452.	3.3	85
50	Odd nitrogen in the mesosphere. <i>Journal of Geophysical Research</i> , 1971, 76, 8384-8393.	3.3	83
51	Aeronomy of the major planets: Photochemistry of ammonia and hydrocarbons. <i>Reviews of Geophysics</i> , 1975, 13, 372-382.	23.0	80
52	Enhancement of heavy ozone in the Earth's atmosphere?. <i>Journal of Geophysical Research</i> , 1983, 88, 8447-8452.	3.3	80
53	The aeronomy of odd nitrogen in the thermosphere. <i>Journal of Geophysical Research</i> , 1975, 80, 3068-3076.	3.3	79
54	Evidence for temporal variability of Enceladus' gas jets: Modeling of Cassini observations. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	78

#	ARTICLE	IF	CITATIONS
55	Photochemistry and Vertical Transport in Io's Atmosphere and Ionosphere. <i>Icarus</i> , 1996, 120, 290-316.	2.5	77
56	Titan's hydrodynamically escaping atmosphere. <i>Icarus</i> , 2008, 193, 588-594.	2.5	77
57	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77
58	Photochemistry of the Reducing Atmospheres of Jupiter, Saturn and Titan. <i>International Reviews in Physical Chemistry</i> , 1983, 3, 145-176.	2.3	76
59	Vertical constituent transport in the mesosphere. <i>Journal of Geophysical Research</i> , 1987, 92, 6691-6698.	3.3	75
60	N <sub>2</sub> escape rates from Pluto's atmosphere. <i>Icarus</i> , 2008, 193, 612-619.	2.5	75
61	The density and thermal structure of Pluto's atmosphere and associated escape processes and rates. <i>Icarus</i> , 2014, 228, 301-314.	2.5	75
62	New Horizons: Anticipated Scientific Investigations at the Pluto System. <i>Space Science Reviews</i> , 2008, 140, 93-127.	8.1	74
63	Radio occultation measurements of Pluto's neutral atmosphere with New Horizons. <i>Icarus</i> , 2017, 290, 96-111.	2.5	74
64	HCN formation on Jupiter: The coupled photochemistry of ammonia and acetylene. <i>Icarus</i> , 1983, 54, 417-433.	2.5	73
65	Heating of Jupiter's Thermosphere by Dissipation of Gravity Waves Due to Molecular Viscosity and Heat Conduction. <i>Icarus</i> , 1999, 140, 328-340.	2.5	73
66	Photochemistry of nitrogen in the Martian atmosphere. <i>Icarus</i> , 1977, 30, 26-41.	2.5	72
67	Detection of Sulfur Monoxide in Io's Atmosphere. <i>Astrophysical Journal</i> , 1996, 459, .	4.5	72
68	Meridional variations of C <sub>2</sub> H <sub>2</sub> and C <sub>2</sub> H <sub>6</sub> in Jupiter's atmosphere from Cassini CIRS infrared spectra. <i>Icarus</i> , 2007, 188, 47-71.	2.5	72
69	Haze in Pluto's atmosphere. <i>Icarus</i> , 2017, 290, 112-133.	2.5	72
70	On the Temperature of the Jovian Thermosphere. <i>Journals of the Atmospheric Sciences</i> , 1973, 30, 718-725.	1.7	71
71	On the Vertical Thermal Structure of Io's Atmosphere. <i>Icarus</i> , 1994, 111, 18-30.	2.5	71
72	Haze heats Pluto's atmosphere yet explains its cold temperature. <i>Nature</i> , 2017, 551, 352-355.	27.8	71

#	ARTICLE	IF	CITATIONS
73	Photoionization rates in the night-time E- and F-region ionosphere— <i>Planetary and Space Science</i> , 1980, 28, 1027-1033.	1.7	68
74	Molecular hydrogen in Titan's atmosphere: Implications of the measured tropospheric and thermospheric mole fractions. <i>Icarus</i> , 2010, 208, 878-886.	2.5	68
75	Orbital apocenter is not a sufficient condition for HST/STIS detection of Europa's water vapor aurora. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5123-32.	7.1	65
76	Jupiter's Atmospheric Composition from the Cassini Thermal Infrared Spectroscopy Experiment. <i>Science</i> , 2004, 305, 1582-1586.	12.6	63
77	Seasonal variation of middle atmospheric CH <sub>4</sub> and H <sub>2</sub> O with a new chemical-dynamical model. <i>Journal of Geophysical Research</i> , 1997, 102, 3503-3526.	3.3	62
78	The New Horizons Radio Science Experiment (REX). <i>Space Science Reviews</i> , 2008, 140, 217-259.	8.1	62
79	Titan's hydrodynamically escaping atmosphere: Escape rates and the structure of the exobase region. <i>Icarus</i> , 2009, 202, 632-641.	2.5	62
80	The CH <sub>4</sub> structure in Titan's upper atmosphere revisited. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	61
81	The Photochemistry of NH <sub>3</sub> in the Jovian Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1973, 30, 1205-1209.	1.7	61
82	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016, 351, aad9045.	12.6	60
83	Aurora on Ganymede. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2043-2054.	2.4	58
84	Ionosphere. , 1983, , 51-67.		58
85	Measurement of the nitric oxide altitude distribution in the mid-latitude mesosphere. <i>Journal of Geophysical Research</i> , 1977, 82, 3281-3286.	3.3	57
86	Hydrocarbon photochemistry and Lyman alpha albedo of Jupiter. <i>Astrophysical Journal</i> , 1980, 239, 395.	4.5	57
87	The seasonal variation of water vapor and ozone in the upper mesosphere: Implications for vertical transport and ozone photochemistry. <i>Journal of Geophysical Research</i> , 1990, 95, 883-893.	3.3	56
88	Interpretation of Galileo's Io plasma and field observations: I0, I24, and I27 flybys and close polar passes. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 5-1-SMP 5-18.	3.3	56
89	Comparative planetary nitrogen atmospheres: Density and thermal structures of Pluto and Triton. <i>Icarus</i> , 2017, 291, 55-64.	2.5	56
90	Extreme ultraviolet explorer satellite observation of Jupiter's Io plasma torus. <i>Astrophysical Journal</i> , 1994, 426, L51.	4.5	56

#	ARTICLE	IF	CITATIONS
91	The aeronomy of odd nitrogen in the thermosphere 2. Twilight emissions. <i>Journal of Geophysical Research</i> , 1976, 81, 3745-3752.	3.3	55
92	Cassini observations of Io's visible aurorae. <i>Icarus</i> , 2004, 172, 127-140.	2.5	55
93	Parameterization of linear wave chemical transport in planetary atmospheres by eddy diffusion. <i>Journal of Geophysical Research</i> , 1981, 86, 9806-9810.	3.3	54
94	The Atmosphere of Io: Abundances and Sources of Sulfur Dioxide and Atomic Hydrogen. <i>Astrophysics and Space Science</i> , 2001, 277, 271-287.	1.4	54
95	Europa's far ultraviolet oxygen aurora from a comprehensive set of HST observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2143-2170.	2.4	54
96	The Dust Halo of Saturn's Largest Icy Moon, Rhea. <i>Science</i> , 2008, 319, 1380-1384.	12.6	53
97	Excitation of the Ganymede Ultraviolet Aurora. <i>Astrophysical Journal</i> , 2001, 555, 1013-1019.	4.5	51
98	Long-term study of longitudinal dependence in primary particle precipitation in the north Jovian aurora. <i>Journal of Geophysical Research</i> , 1990, 95, 10375-10388.	3.3	50
99	The Thermal Structure of Triton's Middle Atmosphere. <i>Icarus</i> , 2000, 143, 425-428.	2.5	50
100	Pluto's haze as a surface material. <i>Icarus</i> , 2018, 314, 232-245.	2.5	50
101	Discovery of a longitudinal asymmetry in the H Lyman- $\alpha$ brightness of Jupiter. <i>Geophysical Research Letters</i> , 1980, 7, 5-8.	4.0	49
102	Detection of neutral oxygen and sulfur emissions near Io using IUE. <i>Astrophysical Journal</i> , 1987, 319, L33.	4.5	49
103	Diurnal variations of atomic hydrogen: Observations and calculations. <i>Journal of Geophysical Research</i> , 1975, 80, 626-634.	3.3	48
104	Magnetospheric interaction with Triton's ionosphere. <i>Geophysical Research Letters</i> , 1990, 17, 1661-1664.	4.0	48
105	Lyman- $\alpha$ imaging of the SO <sub>2</sub> distribution on Io. <i>Geophysical Research Letters</i> , 2000, 27, 1787-1790.	4.0	48
106	Photochemistry in Outer Solar System Atmospheres. <i>Space Science Reviews</i> , 2005, 116, 155-170.	8.1	48
107	Energy partitioning in the Io plasma torus. <i>Journal of Geophysical Research</i> , 1985, 90, 9469-9493.	3.3	47
108	Energy balance constraints on gravity wave induced eddy diffusion in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 1985, 90, 13067-13072.	3.3	47

#	ARTICLE	IF	CITATIONS
109	On the thermal structure of Triton's thermosphere. <i>Geophysical Research Letters</i> , 1992, 19, 669-672.	4.0	47
110	An analysis of Pluto occultation light curves using an atmospheric radiative-convective model. <i>Icarus</i> , 2011, 211, 804-818.	2.5	47
111	The Galilean satellites as a source of CO in the Jovian upper atmosphere. <i>Icarus</i> , 1979, 37, 256-263.	2.5	46
112	Parameterization of IR cooling in a middle atmosphere dynamics model: 1. Effects on the zonally averaged circulation. <i>Journal of Geophysical Research</i> , 1982, 87, 8951-8966.	3.3	46
113	Phosphine photochemistry in the atmosphere of Saturn. <i>Icarus</i> , 1984, 59, 314-335.	2.5	46
114	Detection of Callisto's oxygen atmosphere with the Hubble Space Telescope. <i>Icarus</i> , 2015, 254, 178-189.	2.5	46
115	Aeronomics systems on planets, moons, and comets. <i>Geophysical Monograph Series</i> , 2002, , 7-22.	0.1	45
116	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
117	Nitrogen airglow sources: Comparison of Triton, Titan, and Earth. <i>Geophysical Research Letters</i> , 1991, 18, 689-692.	4.0	43
118	Triton's atmosphere: A source of $N_2$ and $H_2$ for Neptune's magnetosphere. <i>Geophysical Research Letters</i> , 1991, 18, 2309-2312.	4.0	43
119	Io's ultraviolet aurora: Remote sensing of Io's interaction. <i>Geophysical Research Letters</i> , 2000, 27, 2893-2896.	4.0	43
120	Detection of the Forbidden SO <sub>2</sub> Rovibronic Transition on Io at 1.7 $\mu$ m. <i>Icarus</i> , 2002, 156, 296-301.	2.5	43
121	Photochemistry of the atmosphere of Uranus. <i>Astrophysical Journal</i> , 1989, 346, 495.	4.5	43
122	The spectrum of the Jovian dayglow observed at 3 Å resolution with the Hopkins ultraviolet telescope. <i>Astrophysical Journal</i> , 1993, 406, 279.	4.5	43
123	The Ultraviolet Albedo of Titan. <i>Icarus</i> , 1998, 131, 382-392.	2.5	42
124	The ion mass loading rate at Io. <i>Icarus</i> , 2003, 163, 456-468.	2.5	42
125	Io's Atmospheric Response to Eclipse: UV Aurorae Observations. <i>Science</i> , 2007, 318, 237-240.	12.6	41
126	Minor Neutral Constituents in the Mesosphere and Lower Thermosphere. <i>Radio Science</i> , 1972, 7, 1-21.	1.6	40



#	ARTICLE	IF	CITATIONS
127	On the energy crisis in the Io plasma torus. <i>Geophysical Research Letters</i> , 1988, 15, 545-548.	4.0	40
128	[ITAL]Hubble Space Telescope[/ITAL] Space Telescope Imaging Spectrograph Search for an Atmosphere on Callisto: A Jovian Unipolar Inductor. <i>Astrophysical Journal</i> , 2002, 581, L51-L54.	4.5	40
129	Saturn's variable thermosphere from Cassini/UVIS occultations. <i>Icarus</i> , 2015, 260, 174-189.	2.5	40
130	The photochemistry of methane in the atmosphere of Triton. <i>Geophysical Research Letters</i> , 1990, 17, 1729-1732.	4.0	39
131	Relative contributions of sublimation and volcanoes to Io's atmosphere inferred from its plasma interaction during solar eclipse. <i>Icarus</i> , 2004, 171, 411-420.	2.5	39
132	On the HCN and CO <sub>2</sub> abundance and distribution in Jupiter's stratosphere. <i>Icarus</i> , 2006, 184, 478-497.	2.5	39
133	Io's equatorial spots: Morphology of neutral UV emissions. <i>Journal of Geophysical Research</i> , 2000, 105, 27157-27165.	3.3	38
134	Ion densities and magnetic signatures of dust pickup at Enceladus. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2740-2774.	2.4	38
135	NH <sub>3</sub> and PH <sub>3</sub> photochemistry in the Jovian atmosphere. <i>Astrophysical Journal</i> , 1977, 214, L97.	4.5	38
136	Constraints on gravity wave induced diffusion in the middle atmosphere. <i>Pure and Applied Geophysics</i> , 1989, 130, 533-546.	1.9	37
137	Emission profiles of neutral oxygen and sulfur in Io's exospheric corona. <i>Journal of Geophysical Research</i> , 2001, 106, 26155-26182.	3.3	37
138	Titan's cold case files - Outstanding questions after Cassini-Huygens. <i>Planetary and Space Science</i> , 2018, 155, 50-72.	1.7	37
139	Parameterization of IR cooling in a Middle Atmosphere Dynamics Model: 2. Non-LTE radiative transfer and the globally averaged temperature of the mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 1984, 89, 4917-4926.	3.3	36
140	Interaction of Gravity Waves with Ionospheric Plasma: Implications for Jupiter's Ionosphere. <i>Icarus</i> , 2001, 152, 347-365.	2.5	36
141	MHD Modeling of the Plasma Interaction With Io's Asymmetric Atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9286-9311.	2.4	36
142	Hydrocarbon abundances in the jovian atmosphere. <i>Astrophysical Journal</i> , 1974, 192, L47.	4.5	36
143	Detection of Chlorine Ions in the [ITAL]Far Ultraviolet Spectroscopic Explorer[/ITAL] Spectrum of the Io Plasma Torus. <i>Astrophysical Journal</i> , 2001, 554, L123-L126.	4.5	35
144	On the thermal electron balance in Titan's sunlit upper atmosphere. <i>Icarus</i> , 2013, 223, 234-251.	2.5	35

#	ARTICLE	IF	CITATIONS
145	Auroral NO concentrations?. <i>Journal of Geophysical Research</i> , 1976, 81, 4765-4769.	3.3	34
146	Numerical Simulation of Sudden Stratospheric Warmings. <i>Journals of the Atmospheric Sciences</i> , 1980, 37, 214-236.	1.7	34
147	HUBBLE SPACE TELESCOPE/ADVANCED CAMERA FOR SURVEYS OBSERVATIONS OF EUROPA'S ATMOSPHERIC ULTRAVIOLET EMISSION AT EASTERN ELONGATION. <i>Astrophysical Journal</i> , 2011, 738, 153.	4.5	34
148	The far ultraviolet vehicle glow of the S3 satellite. <i>Geophysical Research Letters</i> , 1987, 14, 628-631.	4.0	33
149	Results from the Huygens probe on Titan. <i>Astronomy and Astrophysics Review</i> , 2009, 17, 149-179.	25.5	33
150	The collision of comet Shoemaker-Levy 9 with Jupiter: Detection and evolution of HCN in the stratosphere of the planet. <i>Geophysical Research Letters</i> , 1995, 22, 1589-1592.	4.0	32
151	Atmospheres and Plasma Interactions at Saturn's Largest Inner Icy Satellites. <i>Astrophysical Journal</i> , 2005, 620, L115-L118.	4.5	32
152	Pluto's interaction with the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4232-4246.	2.4	32
153	Io's auroral limb glow: Hubble Space Telescope FUV observations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	31
154	Nitric oxide in the D region. <i>Journal of Geophysical Research</i> , 1972, 77, 1337-1339.	3.3	30
155	A model study of the response of mesospheric ozone to short-term solar ultraviolet flux variations. <i>Journal of Geophysical Research</i> , 1990, 95, 22523-22538.	3.3	30
156	An Analysis of the Voyager 2 Ultraviolet Spectrometer Occultation Data at Uranus: Inferring Heat Sources and Model Atmospheres. <i>Icarus</i> , 1993, 101, 45-63.	2.5	30
157	Plasma Flow and Related Phenomena in Planetary Aeronomy. <i>Space Science Reviews</i> , 2008, 139, 311-353.	8.1	30
158	Titan ionospheric conductivities from Cassini measurements. <i>Planetary and Space Science</i> , 2009, 57, 1828-1833.	1.7	30
159	An upper limit on Pluto's ionosphere from radio occultation measurements with New Horizons. <i>Icarus</i> , 2018, 307, 17-24.	2.5	30
160	Formation and photochemistry of Methylamine in Jupiter's atmosphere. <i>Icarus</i> , 1983, 55, 399-419.	2.5	29
161	The far ultraviolet reflection spectrum of Uranus: Results from the Voyager encounter. <i>Icarus</i> , 1989, 77, 439-456.	2.5	29
162	A resolution of the N <sub>2</sub> Carroll-Yoshino (c4 <sup>+</sup> -X) band problem in the Earth's atmosphere. <i>Journal of Geophysical Research</i> , 1994, 99, 417.	3.3	29

#	ARTICLE	IF	CITATIONS
163	The Farâ€Ultraviolet Spectrum of the Io Plasma Torus. <i>Astrophysical Journal</i> , 2004, 601, 583-591.	4.5	29
164	An intense thermospheric jet on Titan. <i>Nature Astronomy</i> , 2019, 3, 614-619.	10.1	29
165	The Response of the Zonally Averaged Circulation to Stratospheric Ozone Reductions. <i>Journals of the Atmospheric Sciences</i> , 1978, 35, 1751-1757.	1.7	28
166	Mesospheric HO x photochemistry: Constraints from recent satellite measurements of OH and H 2 O. <i>Geophysical Research Letters</i> , 1996, 23, 2097-2100.	4.0	28
167	Gravitational tidal waves in Titan's upper atmosphere. <i>Icarus</i> , 2006, 182, 251-258.	2.5	28
168	Analysis of Raman scattered LYâ€± emissions from the atmosphere of Uranus. <i>Geophysical Research Letters</i> , 1987, 14, 483-486.	4.0	27
169	The atmospheric abundance of SO2 on Io. <i>Icarus</i> , 1990, 88, 1-23.	2.5	27
170	Neutral Atmospheres. <i>Space Science Reviews</i> , 2008, 139, 191-234.	8.1	27
171	DETECTION OF A HYDROGEN CORONA IN HST LYâ€± IMAGES OF EUROPA IN TRANSIT OF JUPITER. <i>Astronomical Journal</i> , 2017, 153, 67.	4.7	27
172	Simulation of Ioâ€™s auroral emission: Constraints on the atmosphere in eclipse. <i>Icarus</i> , 2011, 214, 495-509.	2.5	26
173	Hydrogen and methane in Titanâ€™s atmosphere: chemistry, diffusion, escape, and the Hunten limiting flux principle <sup>1</sup>This article is part of a Special Issue that honours the work of Dr. Donald M. Hunten FRSC who passed away in December 2010 after a very illustrious career.. <i>Canadian Journal of Physics</i> , 2012, 90, 795-805.	1.1	26
174	LYâ€“induced Fluorescence of H2 and Co in Hubble Space Telescope Spectra of a Comet Shoemakerâ€Levy 9 Impact Site on Jupiter. <i>Astrophysical Journal</i> , 1997, 475, 835-842.	4.5	26
175	Material Flux From the Rings of Saturn Into Its Atmosphere. <i>Geophysical Research Letters</i> , 2018, 45, 10,093.	4.0	25
176	Upper Limit on Titan's Atmospheric Argon Abundance. <i>Icarus</i> , 1993, 103, 333-336.	2.5	24
177	Simultaneous Spectroscopy and Imaging of the Jovian Aurora with the Hopkins Ultraviolet Telescope and the Hubble Space Telescope. <i>Astrophysical Journal</i> , 1997, 476, 918-923.	4.5	24
178	A phenomenological model of Ioâ€™s UV aurora based on HST/STIS observations. <i>Icarus</i> , 2014, 228, 386-406.	2.5	24
179	The structure of Io's thermal corona and implications for atmospheric escape. <i>Astrophysical Journal</i> , 1989, 343, 468.	4.5	24
180	Eddy diffusion at Saturn's homopause. <i>Geophysical Research Letters</i> , 1982, 9, 1077-1080.	4.0	23

#	ARTICLE	IF	CITATIONS
181	Constraints on Io's interior from auroral spot oscillations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1903-1927.	2.4	23
182	Structure and density of Callisto's atmosphere from a fluid-kinetic model of its ionosphere: Comparison with Hubble Space Telescope and Galileo observations. <i>Icarus</i> , 2017, 282, 237-259.	2.5	23
183	An investigation of Pluto's troposphere using stellar occultation light curves and an atmospheric radiative-convective model. <i>Icarus</i> , 2011, 214, 685-700.	2.5	22
184	Photoemission Phenomena in the Solar System. <i>Space Science Reviews</i> , 2008, 139, 267-310.	8.1	21
185	Atmospheric Structure and Composition. , 2009, , 235-257.		21
186	Photochemical radiative damping and instability in the stratosphere. <i>Geophysical Research Letters</i> , 1977, 4, 424-426.	4.0	20
187	Solar wind at 33 AU: Setting bounds on the Pluto interaction for New Horizons. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1497-1511.	3.6	19
188	Constraints on an exosphere at Ceres from Hubble Space Telescope observations. <i>Geophysical Research Letters</i> , 2016, 43, 2465-2472.	4.0	19
189	The puzzling detection of x-rays from Pluto by Chandra. <i>Icarus</i> , 2017, 287, 103-109.	2.5	19
190	The Lyman- $\alpha$ Sky Background as Observed by New Horizons. <i>Geophysical Research Letters</i> , 2018, 45, 8022-8028.	4.0	19
191	A major ice component in Pluto's haze. <i>Nature Astronomy</i> , 2021, 5, 289-297.	10.1	19
192	Phosphine photochemistry in Saturn's atmosphere. <i>Geophysical Research Letters</i> , 1983, 10, 957-960.	4.0	18
193	THE UPPER ATMOSPHERE OF URANUS. , 1991, , 65-109.		18
194	Physics and chemistry of the $E$ region: A review. <i>Radio Science</i> , 1974, 9, 159-165.	1.6	17
195	On the numerical modelling of middle atmosphere tides. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 1825-1857.	2.7	17
196	Detection of Atomic Chlorine in Io's Atmosphere with the Hubble Space Telescope/GHRS. <i>Astrophysical Journal</i> , 2004, 610, 1191-1198.	4.5	17
197	The CO Abundance on Neptune from HST Observations. <i>Icarus</i> , 1996, 123, 37-55.	2.5	16
198	An attempt to detect transient changes in Io's SO <sub>2</sub> and NaCl atmosphere. <i>Icarus</i> , 2020, 350, 113925.	2.5	16

#	ARTICLE	IF	CITATIONS
199	Photochemically induced departures of [O] and [O <sub>2</sub> ] from diffusive equilibrium distributions. <i>Journal of Geophysical Research</i> , 1976, 81, 257-259.	3.3	15
200	The ionospheres of the major planets. <i>Reviews of Geophysics</i> , 1979, 17, 1913-1922.	23.0	15
201	On the role of vibration-vibration transitions in radiative cooling of the CO <sub>2</sub> 15 $\mu$ m band around the mesopause. <i>Journal of Geophysical Research</i> , 1990, 95, 3571-3577.	3.3	15
202	Numerical modeling of chemical-dynamical coupling in the upper stratosphere and mesosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 23995-24011.	3.3	15
203	Suprathermal Ions in the Outer Heliosphere. <i>Astrophysical Journal</i> , 2019, 876, 46.	4.5	15
204	Hopkins Ultraviolet Telescope determination of the Io torus electron temperature. <i>Astrophysical Journal</i> , 1994, 420, L45.	4.5	14
205	Energetic neutral atoms from Titan: Particle simulations in draped magnetic and electric fields. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
206	The Photochemistry of the Atmospheres of the Outer Planets and Their Satellites. , 1985, , 393-434.		13
207	Diurnal variation of atomic hydrogen in the thermosphere. <i>Planetary and Space Science</i> , 1972, 20, 521-531.	1.7	12
208	High-altitude atomic nitrogen densities. <i>Journal of Geophysical Research</i> , 1978, 83, 4877-4881.	3.3	12
209	Titan airglow during eclipse. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	12
210	Morphology of Ganymede's FUV auroral ovals. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2855-2876.	2.4	12
211	Pluto's Ultraviolet Spectrum, Surface Reflectance, and Airglow Emissions. <i>Astronomical Journal</i> , 2020, 159, 274.	4.7	12
212	Pluto's solar wind interaction: Collisional effects. <i>Icarus</i> , 2015, 246, 303-309.	2.5	11
213	Temporal behavior of the SO 1.707 $\mu$ m ro-vibronic emission band in Io's atmosphere. <i>Icarus</i> , 2007, 189, 401-408.	2.5	10
214	The Atmosphere of Io: Abundances and Sources of Sulfur Dioxide and Atomic Hydrogen. , 2001, , 271-287.		9
215	Pluto's atmosphere observations with ALMA: Spatially-resolved maps of CO and HCN emission and first detection of HNC. <i>Icarus</i> , 2022, 372, 114722.	2.5	9
216	The UV Spectrum of the Ultracool Dwarf LSR J1835+3259 Observed with the Hubble Space Telescope. <i>Astrophysical Journal</i> , 2018, 859, 74.	4.5	8

#	ARTICLE	IF	CITATIONS
217	Radio thermal emission from Pluto and Charon during the New Horizons encounter. <i>Icarus</i> , 2019, 322, 192-209.	2.5	8
218	Brown dwarfs as ideal candidates for detecting UV aurora outside the Solar System: <i>Hubble</i> Space Telescope observations of 2MASS J1237+6526. <i>Astronomy and Astrophysics</i> , 2021, 655, A75.	5.1	8
219	Constraints on the structure and seasonal variations of Triton's atmosphere from the 5 October 2017 stellar occultation and previous observations. <i>Astronomy and Astrophysics</i> , 2022, 659, A136.	5.1	8
220	Photochemical-radiative damping and instability in the stratosphere, II. Numerical results. <i>Geophysical Research Letters</i> , 1978, 5, 523-525.	4.0	7
221	Far-UV emissions from the SL9 impacts with Jupiter. <i>Geophysical Research Letters</i> , 1995, 22, 2425-2428.	4.0	7
222	Titan's upper atmosphere/exosphere, escape processes, and rates. , 2014, , 355-375.		7
223	An empirical model of the Saturn thermosphere. <i>Icarus</i> , 2021, 362, 114396.	2.5	7
224	Exospheres and Atmospheric Escape. <i>Space Sciences Series of ISSI</i> , 2008, , 355-397.	0.0	7
225	New Horizons Detection of the Local Galactic Lyman- $\alpha$ Background. <i>Astronomical Journal</i> , 2021, 162, 241.	4.7	7
226	Sudden stratospheric warmings forced by mountains. <i>Geophysical Research Letters</i> , 1980, 7, 149-152.	4.0	6
227	Radiative relaxation rates for individual $15\frac{1}{4}$ CO <sub>2</sub> lines in the upper stratosphere and lower mesosphere. <i>Journal of Geophysical Research</i> , 1984, 89, 7187-7194.	3.3	6
228	Middle atmosphere age of air in a globally balanced two-dimensional model. <i>Journal of Geophysical Research</i> , 2000, 105, 15201-15212.	3.3	6
229	On the maintenance of thermal wind balance and equatorial superrotation in Titan's stratosphere. <i>Icarus</i> , 2005, 176, 331-350.	2.5	6
230	Outer Solar-System Aeronomy. , 1975, , 401-408.		6
231	Parameterization of the thermal relaxation rate in the stratosphere. <i>Journal of Geophysical Research</i> , 1979, 84, 2469-2470.	3.3	5
232	Chemistry and evolution of Titan's atmosphere. <i>Origins of Life and Evolution of Biospheres</i> , 1982, 12, 244-244.	0.6	5
233	Comparative Planetary Atmospheres of the Galilean Satellites. <i>Highlights of Astronomy</i> , 2005, 13, 894-895.	0.0	5
234	The Jovian Upper Atmosphere. <i>Astrophysics and Space Science Library</i> , 1973, , 345-353.	2.7	5

#	ARTICLE	IF	CITATIONS
235	Coupled models of photochemistry and dynamics in the mesosphere and lower thermosphere. Geophysical Monograph Series, 2000, , 337-342.	0.1	4
236	Exchange of global mean angular momentum between an atmosphere and its underlying planet. Planetary and Space Science, 2008, 56, 1524-1531.	1.7	4
237	Radiative heating&cooling and the energetics of the stratosphere and mesosphere. Reviews of Geophysics, 1987, 25, 497-500.	23.0	3
238	The New Horizons Radio Science Experiment (REX). , 2009, , 217-259.		3
239	New Horizons Observations of an Ultraviolet Stellar Occultation and Appulse by Pluto&TM's Atmosphere. Astronomical Journal, 2020, 159, 26.	4.7	3
240	Mapping the Brightness of Ganymede's Ultraviolet Aurora Using Hubble Space Telescope Observations. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	3
241	Discussion of paper by S. S. Prasad and A. Tan &#x2013;The Jovian ionosphere&#x2013;. Geophysical Research Letters, 1975, 2, 521-522.	4.0	2
242	OBSERVATIONS AND MODELING OF H<sub>2</sub> FLUORESCENCE WITH PARTIAL FREQUENCY REDISTRIBUTION IN GIANT PLANET ATMOSPHERES. Astrophysical Journal, 2011, 732, 37.	4.5	2
243	Constraining the IMF at Pluto Using New Horizons SWAP Data and Hybrid Simulations. Journal of Geophysical Research: Space Physics, 2019, 124, 1568-1581.	2.4	2
244	Constraints on Pluto&TM's H and CH4 profiles from New Horizons Alice Ly&#x1d63; observations. Icarus, 2021, 356, 113973.	2.5	2
245	Molecular hydrogen in the upper atmospheres of Saturn and Titan. Icarus, 2022, 376, 114876.	2.5	2
246	Model update for mesospheric/thermospheric nitric oxide. Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science, 2001, 26, 533-537.	0.2	1
247	Neutral Atmospheres. Space Sciences Series of ISSI, 2008, , 191-234.	0.0	1
248	LORRI observations of waves in Pluto's atmosphere. Icarus, 2021, 356, 113825.	2.5	1
249	High-resolution radiometry of Pluto at 4.2&#x00c5;m with New Horizons. Icarus, 2021, 363, 114430.	2.5	1
250	Photochemistry in Outer Solar System Atmospheres. , 2005, , 155-170.		1
251	The ultraviolet experiment. Origins of Life and Evolution of Biospheres, 1982, 12, 242-242.	0.6	0
252	Atmospheres of Planets and their Satellites. Highlights of Astronomy, 1989, 8, 395-395.	0.0	0

#	ARTICLE	IF	CITATIONS
253	Closing remarks. Faraday Discussions, 2010, 147, 553.	3.2	0
254	Saturn's Variable Thermosphere. , 2018, , 224-250.		0
255	Photoemission Phenomena in the Solar System. Space Sciences Series of ISSI, 2008, , 267-310.	0.0	0
256	Plasma Flow and Related Phenomena in Planetary Aeronomy. Space Sciences Series of ISSI, 2008, , 311-353.	0.0	0