

# 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	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
2	Molecular hydrogen in the upper atmospheres of Saturn and Titan. <i>Icarus</i> , 2022, 376, 114876.	2.5	2
3	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
4	Mapping the Brightness of Ganymede's Ultraviolet Aurora Using Hubble Space Telescope Observations. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	3
5	LORRI observations of waves in Pluto's atmosphere. <i>Icarus</i> , 2021, 356, 113825.	2.5	1
6	Constraints on Pluto's H and CH <sub>4</sub> profiles from New Horizons Alice Ly $\alpha$ observations. <i>Icarus</i> , 2021, 356, 113973.	2.5	2
7	A major ice component in Pluto's haze. <i>Nature Astronomy</i> , 2021, 5, 289-297.	10.1	19
8	An empirical model of the Saturn thermosphere. <i>Icarus</i> , 2021, 362, 114396.	2.5	7
9	High-resolution radiometry of Pluto at 4.2 $\mu$ m with New Horizons. <i>Icarus</i> , 2021, 363, 114430.	2.5	1
10	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
11	New Horizons Detection of the Local Galactic Lyman- $\alpha$ Background. <i>Astronomical Journal</i> , 2021, 162, 241.	4.7	7
12	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
13	New Horizons Observations of an Ultraviolet Stellar Occultation and Appulse by Pluto's Atmosphere. <i>Astronomical Journal</i> , 2020, 159, 26.	4.7	3
14	Pluto's Ultraviolet Spectrum, Surface Reflectance, and Airglow Emissions. <i>Astronomical Journal</i> , 2020, 159, 274.	4.7	12
15	Suprathermal Ions in the Outer Heliosphere. <i>Astrophysical Journal</i> , 2019, 876, 46.	4.5	15
16	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
17	Constraining the IMF at Pluto Using New Horizons SWAP Data and Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1568-1581.	2.4	2
18	An intense thermospheric jet on Titan. <i>Nature Astronomy</i> , 2019, 3, 614-619.	10.1	29

#	ARTICLE	IF	CITATIONS
19	Radio thermal emission from Pluto and Charon during the New Horizons encounter. <i>Icarus</i> , 2019, 322, 192-209.	2.5	8
20	Titan's cold case files - Outstanding questions after Cassini-Huygens. <i>Planetary and Space Science</i> , 2018, 155, 50-72.	1.7	37
21	An upper limit on Pluto's ionosphere from radio occultation measurements with New Horizons. <i>Icarus</i> , 2018, 307, 17-24.	2.5	30
22	Structure and composition of Pluto's atmosphere from the New Horizons solar ultraviolet occultation. <i>Icarus</i> , 2018, 300, 174-199.	2.5	90
23	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
24	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
25	Saturn's Variable Thermosphere. , 2018, , 224-250.		0
26	Material Flux From the Rings of Saturn Into Its Atmosphere. <i>Geophysical Research Letters</i> , 2018, 45, 10,093.	4.0	25
27	The Lyman- $\alpha$ Sky Background as Observed by New Horizons. <i>Geophysical Research Letters</i> , 2018, 45, 8022-8028.	4.0	19
28	Pluto's haze as a surface material. <i>Icarus</i> , 2018, 314, 232-245.	2.5	50
29	DETECTION OF A HYDROGEN CORONA IN HST Ly $\alpha$ IMAGES OF EUROPA IN TRANSIT OF JUPITER. <i>Astronomical Journal</i> , 2017, 153, 67.	4.7	27
30	Haze in Pluto's atmosphere. <i>Icarus</i> , 2017, 290, 112-133.	2.5	72
31	Morphology of Ganymede's FUV auroral ovals. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2855-2876.	2.4	12
32	Constraints on Io's interior from auroral spot oscillations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1903-1927.	2.4	23
33	Radio occultation measurements of Pluto's neutral atmosphere with New Horizons. <i>Icarus</i> , 2017, 290, 96-111.	2.5	74
34	Comparative planetary nitrogen atmospheres: Density and thermal structures of Pluto and Triton. <i>Icarus</i> , 2017, 291, 55-64.	2.5	56
35	Detection of CO and HCN in Pluto's atmosphere with ALMA. <i>Icarus</i> , 2017, 286, 289-307.	2.5	89
36	Haze heats Pluto's atmosphere yet explains its cold temperature. <i>Nature</i> , 2017, 551, 352-355.	27.8	71

#	ARTICLE	IF	CITATIONS
37	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
38	The puzzling detection of x-rays from Pluto by Chandra. <i>Icarus</i> , 2017, 287, 103-109.	2.5	19
39	Constraints on an exosphere at Ceres from Hubble Space Telescope observations. <i>Geophysical Research Letters</i> , 2016, 43, 2465-2472.	4.0	19
40	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
41	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
42	Pluto's interaction with the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4232-4246.	2.4	32
43	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
44	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016, 351, aad9045.	12.6	60
45	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	12.6	219
46	Saturn's variable thermosphere from Cassini/UVIS occultations. <i>Icarus</i> , 2015, 260, 174-189.	2.5	40
47	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
48	Detection of Callisto's oxygen atmosphere with the Hubble Space Telescope. <i>Icarus</i> , 2015, 254, 178-189.	2.5	46
49	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
50	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	12.6	407
51	Pluto's solar wind interaction: Collisional effects. <i>Icarus</i> , 2015, 246, 303-309.	2.5	11
52	Titan's upper atmosphere/exosphere, escape processes, and rates. , 2014, , 355-375.		7
53	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
54	A phenomenological model of Io's UV aurora based on HST/STIS observations. <i>Icarus</i> , 2014, 228, 386-406.	2.5	24

#	ARTICLE	IF	CITATIONS
55	Transient Water Vapor at Europa's South Pole. <i>Science</i> , 2014, 343, 171-174.	12.6	401
56	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
57	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
58	On the thermal electron balance in Titan's sunlit upper atmosphere. <i>Icarus</i> , 2013, 223, 234-251.	2.5	35
59	Aurora on Ganymede. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2043-2054.	2.4	58
60	Hydrogen and methane in Titan'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
61	Titan airglow during eclipse. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	12
62	The CH <sub>4</sub> structure in Titan's upper atmosphere revisited. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	61
63	<i>HUBBLE SPACE TELESCOPE/ADVANCED CAMERA FOR SURVEYS OBSERVATIONS OF EUROPA'S ATMOSPHERIC ULTRAVIOLET EMISSION AT EASTERN ELONGATION.</i> <i>Astrophysical Journal</i> , 2011, 738, 153.	4.5	34
64	OBSERVATIONS AND MODELING OF H <sub>2</sub> FLUORESCENCE WITH PARTIAL FREQUENCY REDISTRIBUTION IN GIANT PLANET ATMOSPHERES. <i>Astrophysical Journal</i> , 2011, 732, 37.	4.5	2
65	Simulation of Io's auroral emission: Constraints on the atmosphere in eclipse. <i>Icarus</i> , 2011, 214, 495-509.	2.5	26
66	An investigation of Pluto's troposphere using stellar occultation light curves and an atmospheric radiative-conductive-convective model. <i>Icarus</i> , 2011, 214, 685-700.	2.5	22
67	An analysis of Pluto occultation light curves using an atmospheric radiative-conductive model. <i>Icarus</i> , 2011, 211, 804-818.	2.5	47
68	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
69	Energetic neutral atoms from Titan: Particle simulations in draped magnetic and electric fields. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
70	Closing remarks. <i>Faraday Discussions</i> , 2010, 147, 553.	3.2	0
71	The New Horizons Radio Science Experiment (REX). , 2009, , 217-259.		3
72	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77

#	ARTICLE	IF	CITATIONS
73	Results from the Huygens probe on Titan. <i>Astronomy and Astrophysics Review</i> , 2009, 17, 149-179.	25.5	33
74	Titan's hydrodynamically escaping atmosphere: Escape rates and the structure of the exobase region. <i>Icarus</i> , 2009, 202, 632-641.	2.5	62
75	Titan ionospheric conductivities from Cassini measurements. <i>Planetary and Space Science</i> , 2009, 57, 1828-1833.	1.7	30
76	Atmospheric Structure and Composition. , 2009, , 235-257.		21
77	Titan's hydrodynamically escaping atmosphere. <i>Icarus</i> , 2008, 193, 588-594.	2.5	77
78	The New Horizons Radio Science Experiment (REX). <i>Space Science Reviews</i> , 2008, 140, 217-259.	8.1	62
79	Photoemission Phenomena in the Solar System. <i>Space Science Reviews</i> , 2008, 139, 267-310.	8.1	21
80	Plasma Flow and Related Phenomena in Planetary Aeronomy. <i>Space Science Reviews</i> , 2008, 139, 311-353.	8.1	30
81	Neutral Atmospheres. <i>Space Science Reviews</i> , 2008, 139, 191-234.	8.1	27
82	Exospheres and Atmospheric Escape. <i>Space Science Reviews</i> , 2008, 139, 355-397.	8.1	103
83	New Horizons: Anticipated Scientific Investigations at the Pluto System. <i>Space Science Reviews</i> , 2008, 140, 93-127.	8.1	74
84	Exchange of global mean angular momentum between an atmosphere and its underlying planet. <i>Planetary and Space Science</i> , 2008, 56, 1524-1531.	1.7	4
85	N <sub>2</sub> escape rates from Pluto's atmosphere. <i>Icarus</i> , 2008, 193, 612-619.	2.5	75
86	An equatorial oscillation in Saturn's middle atmosphere. <i>Nature</i> , 2008, 453, 200-202.	27.8	88
87	Evidence for temporal variability of Enceladus' gas jets: Modeling of Cassini observations. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	78
88	The Dust Halo of Saturn's Largest Icy Moon, Rhea. <i>Science</i> , 2008, 319, 1380-1384.	12.6	53
89	Neutral Atmospheres. <i>Space Sciences Series of ISSI</i> , 2008, , 191-234.	0.0	1
90	Exospheres and Atmospheric Escape. <i>Space Sciences Series of ISSI</i> , 2008, , 355-397.	0.0	7

#	ARTICLE	IF	CITATIONS
91	Photoemission Phenomena in the Solar System. Space Sciences Series of ISSI, 2008, , 267-310.	0.0	0
92	Plasma Flow and Related Phenomena in Planetary Aeronomy. Space Sciences Series of ISSI, 2008, , 311-353.	0.0	0
93	Io's Atmospheric Response to Eclipse: UV Aurorae Observations. Science, 2007, 318, 237-240.	12.6	41
94	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. Icarus, 2007, 188, 47-71.	2.5	72
95	Temporal behavior of the SO 1.707 $\mu$ m ro-vibronic emission band in Io's atmosphere. Icarus, 2007, 189, 401-408.	2.5	10
96	Gravitational tidal waves in Titan's upper atmosphere. Icarus, 2006, 182, 251-258.	2.5	28
97	On the HCN and CO <sub>2</sub> abundance and distribution in Jupiter's stratosphere. Icarus, 2006, 184, 478-497.	2.5	39
98	Atmospheres and Plasma Interactions at Saturn's Largest Inner Icy Satellites. Astrophysical Journal, 2005, 620, L115-L118.	4.5	32
99	Comparative Planetary Atmospheres of the Galilean Satellites. Highlights of Astronomy, 2005, 13, 894-895.	0.0	5
100	On the maintenance of thermal wind balance and equatorial superrotation in Titan's stratosphere. Icarus, 2005, 176, 331-350.	2.5	6
101	Photochemistry in Outer Solar System Atmospheres. Space Science Reviews, 2005, 116, 155-170.	8.1	48
102	Temperatures, Winds, and Composition in the Saturnian System. Science, 2005, 307, 1247-1251.	12.6	184
103	Titan's Atmospheric Temperatures, Winds, and Composition. Science, 2005, 308, 975-978.	12.6	318
104	Photochemistry in Outer Solar System Atmospheres. , 2005, , 155-170.		1
105	Jupiter's Atmospheric Composition from the Cassini Thermal Infrared Spectroscopy Experiment. Science, 2004, 305, 1582-1586.	12.6	63
106	Cassini observations of Io's visible aurorae. Icarus, 2004, 172, 127-140.	2.5	55
107	New perspectives on Titan's upper atmosphere from a reanalysis of the Voyager 1 UVS solar occultations. Icarus, 2004, 170, 91-112.	2.5	174
108	Relative contributions of sublimation and volcanoes to Io's atmosphere inferred from its plasma interaction during solar eclipse. Icarus, 2004, 171, 411-420.	2.5	39

#	ARTICLE	IF	CITATIONS
109	Detection of Atomic Chlorine in Io's Atmosphere with the Hubble Space Telescope GHR. <i>Astrophysical Journal</i> , 2004, 610, 1191-1198.	4.5	17
110	The Far Ultraviolet Spectrum of the Io Plasma Torus. <i>Astrophysical Journal</i> , 2004, 601, 583-591.	4.5	29
111	The ion mass loading rate at Io. <i>Icarus</i> , 2003, 163, 456-468.	2.5	42
112	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
113	Io's auroral limb glow: Hubble Space Telescope FUV observations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	31
114	[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
115	Aeronomics systems on planets, moons, and comets. <i>Geophysical Monograph Series</i> , 2002, , 7-22.	0.1	45
116	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
117	Detection of the Forbidden SO $\pi$ Rovibronic Transition on Io at 1.7 $\mu$ m. <i>Icarus</i> , 2002, 156, 296-301.	2.5	43
118	Carbon Monoxide on Jupiter: Evidence for Both Internal and External Sources. <i>Icarus</i> , 2002, 159, 95-111.	2.5	126
119	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
120	Model update for mesospheric/thermospheric nitric oxide. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 2001, 26, 533-537.	0.2	1
121	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
122	Excitation of the Ganymede Ultraviolet Aurora. <i>Astrophysical Journal</i> , 2001, 555, 1013-1019.	4.5	51
123	Interaction of Gravity Waves with Ionospheric Plasma: Implications for Jupiter's Ionosphere. <i>Icarus</i> , 2001, 152, 347-365.	2.5	36
124	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
125	The Atmosphere of Io: Abundances and Sources of Sulfur Dioxide and Atomic Hydrogen. , 2001, , 271-287.		9
126	HST/STIS Ultraviolet Imaging of Polar Aurora on Ganymede. <i>Astrophysical Journal</i> , 2000, 535, 1085-1090.	4.5	102



#	ARTICLE	IF	CITATIONS
127	The Thermal Structure of Triton's Middle Atmosphere. <i>Icarus</i> , 2000, 143, 425-428.	2.5	50
128	Coupled models of photochemistry and dynamics in the mesosphere and lower thermosphere. <i>Geophysical Monograph Series</i> , 2000, , 337-342.	0.1	4
129	Io's equatorial spots: Morphology of neutral UV emissions. <i>Journal of Geophysical Research</i> , 2000, 105, 27157-27165.	3.3	38
130	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
131	Lyman- $\alpha$ imaging of the SO <sub>2</sub> distribution on Io. <i>Geophysical Research Letters</i> , 2000, 27, 1787-1790.	4.0	48
132	Io's ultraviolet aurora: Remote sensing of Io's interaction. <i>Geophysical Research Letters</i> , 2000, 27, 2893-2896.	4.0	43
133	On the numerical modelling of middle atmosphere tides. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 1825-1857.	2.7	17
134	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
135	Far-Ultraviolet Imaging Spectroscopy of Io's Atmosphere with HST/STIS. <i>Science</i> , 1999, 283, 353-357.	12.6	99
136	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
137	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
138	The Ultraviolet Albedo of Titan. <i>Icarus</i> , 1998, 131, 382-392.	2.5	42
139	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
140	The Far-Ultraviolet Oxygen Airglow of Europa and Ganymede. <i>Astrophysical Journal</i> , 1998, 499, 475-481.	4.5	239
141	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
142	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
143	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
144	Ly $\alpha$ -induced Fluorescence of H <sub>2</sub> and CO in Hubble Space Telescope Spectra of a Comet Shoemaker-Levy 9 Impact Site on Jupiter. <i>Astrophysical Journal</i> , 1997, 475, 835-842.	4.5	26

#	ARTICLE	IF	CITATIONS
145	Mesospheric HO x photochemistry: Constraints from recent satellite measurements of OH and H <sub>2</sub> O. Geophysical Research Letters, 1996, 23, 2097-2100.	4.0	28
146	Detection of Sulfur Monoxide in Io's Atmosphere. Astrophysical Journal, 1996, 459, .	4.5	72
147	On the Vertical Thermal Structure of Pluto's Atmosphere. Icarus, 1996, 120, 266-289.	2.5	108
148	Photochemistry and Vertical Transport in Io's Atmosphere and Ionosphere. Icarus, 1996, 120, 290-316.	2.5	77
149	The CO Abundance on Neptune from HST Observations. Icarus, 1996, 123, 37-55.	2.5	16
150	Chemical and thermal response of Jupiter's atmosphere following the impact of comet Shoemaker-Levy 9. Nature, 1995, 373, 592-595.	27.8	90
151	Detection of an oxygen atmosphere on Jupiter's moon Europa. Nature, 1995, 373, 677-679.	27.8	345
152	The collision of comet Shoemaker-Levy 9 with Jupiter: Detection and evolution of HCN in the stratosphere of the planet. Geophysical Research Letters, 1995, 22, 1589-1592.	4.0	32
153	Far-UV emissions from the SL9 impacts with Jupiter. Geophysical Research Letters, 1995, 22, 2425-2428.	4.0	7
154	Detection of the SO <sub>2</sub> Atmosphere on Io with the Hubble Space Telescope. Icarus, 1994, 111, 2-17.	2.5	88
155	On the Vertical Thermal Structure of Io's Atmosphere. Icarus, 1994, 111, 18-30.	2.5	71
156	A resolution of the N <sub>2</sub> Carroll-Yoshino (c4 <sup>+</sup> -X) band problem in the Earth's atmosphere. Journal of Geophysical Research, 1994, 99, 417.	3.3	29
157	Hopkins Ultraviolet Telescope determination of the Io torus electron temperature. Astrophysical Journal, 1994, 420, L45.	4.5	14
158	Extreme ultraviolet explorer satellite observation of Jupiter's Io plasma torus. Astrophysical Journal, 1994, 426, L51.	4.5	56
159	An Analysis of the Voyager 2 Ultraviolet Spectrometer Occultation Data at Uranus: Inferring Heat Sources and Model Atmospheres. Icarus, 1993, 101, 45-63.	2.5	30
160	Upper Limit on Titan's Atmospheric Argon Abundance. Icarus, 1993, 103, 333-336.	2.5	24
161	The spectrum of the Jovian dayglow observed at 3 Å resolution with the Hopkins ultraviolet telescope. Astrophysical Journal, 1993, 406, 279.	4.5	43
162	On the thermal structure of Triton's thermosphere. Geophysical Research Letters, 1992, 19, 669-672.	4.0	47

#	ARTICLE	IF	CITATIONS
163	Titan's upper atmosphere: Structure and ultraviolet emissions. <i>Icarus</i> , 1992, 100, 512-526.	2.5	120
164	Nitrogen airglow sources: Comparison of Triton, Titan, and Earth. <i>Geophysical Research Letters</i> , 1991, 18, 689-692.	4.0	43
165	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
166	THE UPPER ATMOSPHERE OF URANUS. , 1991, , 65-109.		18
167	The atmospheric abundance of $SO_2$ on Io. <i>Icarus</i> , 1990, 88, 1-23.	2.5	27
168	Magnetospheric interaction with Triton's ionosphere. <i>Geophysical Research Letters</i> , 1990, 17, 1661-1664.	4.0	48
169	The photochemistry of methane in the atmosphere of Triton. <i>Geophysical Research Letters</i> , 1990, 17, 1729-1732.	4.0	39
170	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
171	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
172	On the role of vibrational-vibrational transitions in radiative cooling of the $CO_2$ $15\ \mu m$ band around the mesopause. <i>Journal of Geophysical Research</i> , 1990, 95, 3571-3577.	3.3	15
173	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
174	Atmospheres of Planets and their Satellites. <i>Highlights of Astronomy</i> , 1989, 8, 395-395.	0.0	0
175	Ultraviolet Spectrometer Observations of Neptune and Triton. <i>Science</i> , 1989, 246, 1459-1466.	12.6	308
176	The far ultraviolet reflection spectrum of Uranus: Results from the Voyager encounter. <i>Icarus</i> , 1989, 77, 439-456.	2.5	29
177	Constraints on gravity wave induced diffusion in the middle atmosphere. <i>Pure and Applied Geophysics</i> , 1989, 130, 533-546.	1.9	37
178	The structure of Io's thermal corona and implications for atmospheric escape. <i>Astrophysical Journal</i> , 1989, 343, 468.	4.5	24
179	Photochemistry of the atmosphere of Uranus. <i>Astrophysical Journal</i> , 1989, 346, 495.	4.5	43
180	On the energy crisis in the Io plasma torus. <i>Geophysical Research Letters</i> , 1988, 15, 545-548.	4.0	40

#	ARTICLE	IF	CITATIONS
181	Analysis of Raman scattered Ly $\alpha$ ± emissions from the atmosphere of Uranus. Geophysical Research Letters, 1987, 14, 483-486.	4.0	27
182	The far ultraviolet vehicle glow of the S3 $\alpha$ 4 satellite. Geophysical Research Letters, 1987, 14, 628-631.	4.0	33
183	Io plasma torus electrons: Voyager 1. Journal of Geophysical Research, 1987, 92, 5741-5762.	3.3	156
184	Vertical constituent transport in the mesosphere. Journal of Geophysical Research, 1987, 92, 6691-6698.	3.3	75
185	Radiative heating&cooling and the energetics of the stratosphere and mesosphere. Reviews of Geophysics, 1987, 25, 497-500.	23.0	3
186	Detection of neutral oxygen and sulfur emissions near Io using IUE. Astrophysical Journal, 1987, 319, L33.	4.5	49
187	Ultraviolet Spectrometer Observations of Uranus. Science, 1986, 233, 74-79.	12.6	194
188	Clouds, aerosols, and photochemistry in the Jovian atmosphere. Icarus, 1986, 65, 161-217.	2.5	227
189	Energy partitioning in the Io plasma torus. Journal of Geophysical Research, 1985, 90, 9469-9493.	3.3	47
190	Energy balance constraints on gravity wave induced eddy diffusion in the mesosphere and lower thermosphere. Journal of Geophysical Research, 1985, 90, 13067-13072.	3.3	47
191	The Photochemistry of the Atmospheres of the Outer Planets and Their Satellites. , 1985, , 393-434.		13
192	Phosphine photochemistry in the atmosphere of Saturn. Icarus, 1984, 59, 314-335.	2.5	46
193	Parameterization of IR cooling in a Middle Atmosphere Dynamics Model: 2. Non&LTTE radiative transfer and the globally averaged temperature of the mesosphere and lower thermosphere. Journal of Geophysical Research, 1984, 89, 4917-4926.	3.3	36
194	Radiative relaxation rates for individual 15 $\alpha$ 1/4 CO <sub>2</sub> lines in the upper stratosphere and lower mesosphere. Journal of Geophysical Research, 1984, 89, 7187-7194.	3.3	6
195	Formation and photochemistry of Methylamine in Jupiter's atmosphere. Icarus, 1983, 55, 399-419.	2.5	29
196	HCN formation on Jupiter: The coupled photochemistry of ammonia and acetylene. Icarus, 1983, 54, 417-433.	2.5	73
197	Phosphine photochemistry in Saturn&TM's atmosphere. Geophysical Research Letters, 1983, 10, 957-960.	4.0	18
198	A numerical model of gravity wave breaking and stress in the mesosphere. Journal of Geophysical Research, 1983, 88, 5249-5259.	3.3	105

#	ARTICLE	IF	CITATIONS
199	Enhancement of heavy ozone in the Earth's atmosphere?. Journal of Geophysical Research, 1983, 88, 8447-8452.	3.3	80
200	Photochemistry of the Reducing Atmospheres of Jupiter, Saturn and Titan. International Reviews in Physical Chemistry, 1983, 3, 145-176.	2.3	76
201	Ionosphere. , 1983, , 51-67.		58
202	Extreme Ultraviolet Observations from the Voyager 2 Encounter with Saturn. Science, 1982, 215, 548-553.	12.6	179
203	Eddy diffusion at Saturn's homopause. Geophysical Research Letters, 1982, 9, 1077-1080.	4.0	23
204	Titan's upper atmosphere: Composition and temperature from the EUV solar occultation results. Journal of Geophysical Research, 1982, 87, 1351-1359.	3.3	149
205	EUV emission from Titan's upper atmosphere: Voyager 1 encounter. Journal of Geophysical Research, 1982, 87, 1361-1368.	3.3	166
206	Parameterization of IR cooling in a middle atmosphere dynamics model: 1. Effects on the zonally averaged circulation. Journal of Geophysical Research, 1982, 87, 8951-8966.	3.3	46
207	Chemistry and evolution of Titan's atmosphere. Planetary and Space Science, 1982, 30, 839-848.	1.7	160
208	The ultraviolet experiment. Origins of Life and Evolution of Biospheres, 1982, 12, 242-242.	0.6	0
209	Chemistry and evolution of Titan's atmosphere. Origins of Life and Evolution of Biospheres, 1982, 12, 244-244.	0.6	5
210	Overview of the Voyager ultraviolet spectrometry results through Jupiter encounter. Journal of Geophysical Research, 1981, 86, 8259-8284.	3.3	230
211	Parameterization of linear wave chemical transport in planetary atmospheres by eddy diffusion. Journal of Geophysical Research, 1981, 86, 9806-9810.	3.3	54
212	Extreme Ultraviolet Observations from Voyager 1 Encounter with Saturn. Science, 1981, 212, 206-211.	12.6	397
213	Numerical Simulation of Sudden Stratospheric Warmings. Journals of the Atmospheric Sciences, 1980, 37, 214-236.	1.7	34
214	Photoionization rates in the night-time E- and F-region ionosphere—. Planetary and Space Science, 1980, 28, 1027-1033.	1.7	68
215	Discovery of a longitudinal asymmetry in the H Lyman- $\alpha$ brightness of Jupiter. Geophysical Research Letters, 1980, 7, 5-8.	4.0	49
216	Sudden stratospheric warmings forced by mountains. Geophysical Research Letters, 1980, 7, 149-152.	4.0	6

#	ARTICLE	IF	CITATIONS
217	Venus nighttime hydrogen bulge. <i>Geophysical Research Letters</i> , 1980, 7, 865-868.	4.0	105
218	Hydrocarbon photochemistry and Lyman alpha albedo of Jupiter. <i>Astrophysical Journal</i> , 1980, 239, 395.	4.5	57
219	Extreme Ultraviolet Observations from Voyager 1 Encounter with Jupiter. <i>Science</i> , 1979, 204, 979-982.	12.6	493
220	Extreme Ultraviolet Observations from Voyager 2 Encounter with Jupiter. <i>Science</i> , 1979, 206, 962-966.	12.6	151
221	The Galilean satellites as a source of CO in the Jovian upper atmosphere. <i>Icarus</i> , 1979, 37, 256-263.	2.5	46
222	Parameterization of the thermal relaxation rate in the stratosphere. <i>Journal of Geophysical Research</i> , 1979, 84, 2469-2470.	3.3	5
223	The ionospheres of the major planets. <i>Reviews of Geophysics</i> , 1979, 17, 1913-1922.	23.0	15
224	Photochemical-radiative damping and instability in the stratosphere, II. Numerical results. <i>Geophysical Research Letters</i> , 1978, 5, 523-525.	4.0	7
225	High altitude atomic nitrogen densities. <i>Journal of Geophysical Research</i> , 1978, 83, 4877-4881.	3.3	12
226	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
227	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
228	The Zonally Averaged Circulation of the Middle Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1978, 35, 577-591.	1.7	123
229	Photochemical radiative damping and instability in the stratosphere. <i>Geophysical Research Letters</i> , 1977, 4, 424-426.	4.0	20
230	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
231	Photochemistry of nitrogen in the Martian atmosphere. <i>Icarus</i> , 1977, 30, 26-41.	2.5	72
232	Ultraviolet spectrometer experiment for the Voyager mission. <i>Space Science Reviews</i> , 1977, 21, 183.	8.1	112
233	NH <sub>3</sub> and PH <sub>3</sub> photochemistry in the Jovian atmosphere. <i>Astrophysical Journal</i> , 1977, 214, L97.	4.5	38
234	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

#	ARTICLE	IF	CITATIONS
235	The aeronomy of odd nitrogen in the thermosphere 2. Twilight emissions. Journal of Geophysical Research, 1976, 81, 3745-3752.	3.3	55
236	Auroral NO concentrations?. Journal of Geophysical Research, 1976, 81, 4765-4769.	3.3	34
237	Discussion of paper by S. S. Prasad and A. Tan "The Jovian ionosphere" Geophysical Research Letters, 1975, 2, 521-522.	4.0	2
238	Diurnal variations of atomic hydrogen: Observations and calculations. Journal of Geophysical Research, 1975, 80, 626-634.	3.3	48
239	The aeronomy of odd nitrogen in the thermosphere. Journal of Geophysical Research, 1975, 80, 3068-3076.	3.3	79
240	Aeronomy of the major planets: Photochemistry of ammonia and hydrocarbons. Reviews of Geophysics, 1975, 13, 372-382.	23.0	80
241	Outer Solar-System Aeronomy. , 1975, , 401-408.		6
242	The photochemistry of hydrocarbons in the atmosphere of Titan. Icarus, 1974, 21, 466-470.	2.5	99
243	The nighttime ionosphere: <i>E</i> region and lower <i>F</i> region. Journal of Geophysical Research, 1974, 79, 3171-3178.	3.3	96
244	Physics and chemistry of the <i>E</i> region: A review. Radio Science, 1974, 9, 159-165.	1.6	17
245	Hydrocarbon abundances in the jovian atmosphere. Astrophysical Journal, 1974, 192, L47.	4.5	36
246	The Photochemistry of Hydrocarbons in the Jovian Atmosphere. Journals of the Atmospheric Sciences, 1973, 30, 489-498.	1.7	91
247	On the Temperature of the Jovian Thermosphere. Journals of the Atmospheric Sciences, 1973, 30, 718-725.	1.7	71
248	The Jovian Upper Atmosphere. Astrophysics and Space Science Library, 1973, , 345-353.	2.7	5
249	The Photochemistry of NH <sub>3</sub> in the Jovian Atmosphere. Journals of the Atmospheric Sciences, 1973, 30, 1205-1209.	1.7	61
250	Nitric oxide in the <i>D</i> region. Journal of Geophysical Research, 1972, 77, 1337-1339.	3.3	30
251	Minor Neutral Constituents in the Mesosphere and Lower Thermosphere. Radio Science, 1972, 7, 1-21.	1.6	40
252	Diurnal variation of atomic hydrogen in the thermosphere. Planetary and Space Science, 1972, 20, 521-531.	1.7	12

#	ARTICLE	IF	CITATIONS
253	Diurnal variation of nitric oxide in the upper atmosphere. Journal of Geophysical Research, 1971, 76, 2441-2452.	3.3	85
254	Odd nitrogen in the mesosphere. Journal of Geophysical Research, 1971, 76, 8384-8393.	3.3	83
255	The F2-layer at middle latitudes. Planetary and Space Science, 1970, 18, 1181-1202.	1.7	94
256	Production and diffusion of nitric oxide. Journal of Geophysical Research, 1970, 75, 4307-4321.	3.3	108