

Robert Meier

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165
papers

5,641
citations

42
h-index

65
g-index

172
ext. papers

6,059
ext. citations

4.1
avg, IF

5.28
L-index

#	Paper	IF	Citations
165	Ultraviolet spectroscopy and remote sensing of the upper atmosphere. <i>Space Science Reviews</i> , 1991 , 58, 1-185	7.4	407
164	Initial observations with the Global Ultraviolet Imager (GUVI) in the NASA TIMED satellite mission. <i>Journal of Geophysical Research</i> , 2003 , 108,		252
163	The October 28, 2003 extreme EUV solar flare and resultant extreme ionospheric effects: Comparison to other Halloween events and the Bastille Day event. <i>Geophysical Research Letters</i> , 2005 , 32,	4.8	168
162	Observations of helium in the interplanetary/interstellar wind - The solar-wake effect. <i>Astrophysical Journal</i> , 1974 , 193, 471	4.7	106
161	Deducing composition and incident electron spectra from ground-based auroral optical measurements: Theory and model results. <i>Journal of Geophysical Research</i> , 1989 , 94, 13527		104
160	Thermospheric global average density trends, 1967-2007, derived from orbits of 5000 near-Earth objects. <i>Geophysical Research Letters</i> , 2008 , 35,	4.8	100
159	First look at the 20 November 2003 superstorm with TIMED/GUVI: Comparisons with a thermospheric global circulation model. <i>Journal of Geophysical Research</i> , 2005 , 110,		93
158	The global ionospheric asymmetry in total electron content. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005 , 67, 1377-1387	2	90
157	The nighttime ionosphere: E region and lower F region. <i>Journal of Geophysical Research</i> , 1974 , 79, 3171-3178		86
156	Global thermosphere-ionosphere response to onset of 20 November 2003 magnetic storm. <i>Journal of Geophysical Research</i> , 2006 , 111,		85
155	Radiation field in the troposphere and stratosphere from 240-1000 NM-I. General analysis. <i>Planetary and Space Science</i> , 1982 , 30, 923-933	2	85
154	Geocoronal hydrogen: An analysis of the Lyman-alpha airglow observed from OGO-4. <i>Planetary and Space Science</i> , 1970 , 18, 803-821	2	83
153	Quiet-time seasonal behavior of the thermosphere seen in the far ultraviolet dayglow. <i>Journal of Geophysical Research</i> , 2004 , 109,		81
152	Periodic modulations in thermospheric composition by solar wind high speed streams. <i>Geophysical Research Letters</i> , 2008 , 35,	4.8	76
151	An analysis of the OI 1304 a dayglow using a Monte Carlo resonant scattering model with partial frequency redistribution. <i>Planetary and Space Science</i> , 1982 , 30, 439-450	2	72
150	Remote Sensing of Earth's Limb by TIMED/GUVI: Retrieval of thermospheric composition and temperature. <i>Earth and Space Science</i> , 2015 , 2, 1-37	3	66
149	Atomic oxygen in the Martian thermosphere. <i>Journal of Geophysical Research</i> , 1992 , 97, 91		64

148	EUV resonance radiation from helium atoms and ions in the geocorona. <i>Journal of Geophysical Research</i> , 1972 , 77, 1190-1204		61
147	The Ionospheric Connection Explorer Mission: Mission Goals and Design. <i>Space Science Reviews</i> , 2018 , 214, 1	7.4	62
146	Retrieval of absolute thermospheric concentrations from the far UV dayglow: An application of discrete inverse theory. <i>Journal of Geophysical Research</i> , 1994 , 99, 6307		59
145	Photoionization rates in the night-time E- and F-region ionosphere*. <i>Planetary and Space Science</i> , 1980 , 28, 1027-1033	2	59
144	Solar extreme ultraviolet irradiance: Present, past, and future. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		57
143	The ultraviolet dayglow 1. Far UV emissions of N and N ₂ . <i>Journal of Geophysical Research</i> , 1980 , 85, 2177		58
142	Spatial and temporal variations of the Lyman-alpha airglow and related atomic hydrogen distributions. <i>Planetary and Space Science</i> , 1973 , 21, 309-327	2	58
141	Distribution of sodium in the daytime upper atmosphere as measured by a rocket experiment. <i>Journal of Geophysical Research</i> , 1967 , 72, 2803-2829		58
140	Radiation field in the troposphere and stratosphereII. Numerical analysis. <i>Planetary and Space Science</i> , 1982 , 30, 935-983	2	56
139	Spectroscopy of the extreme ultraviolet dayglow at 6.5Å resolution: Atomic and ionic emissions between 530 and 1240Å <i>Geophysical Research Letters</i> , 1979 , 6, 325-328	4.8	56
138	XUV Photometer System (XPS): Improved Solar Irradiance Algorithm Using CHIANTI Spectral Models. <i>Solar Physics</i> , 2008 , 250, 235-267	2.6	52
137	Analysis of the oxygen nightglow measured by the Hopkins Ultraviolet Telescope: Implications for ionospheric partial radiative recombination rate coefficients. <i>Journal of Geophysical Research</i> , 1999 , 104, 14901-14913		51
136	Global O/N ₂ derived from DE 1 FUV dayglow data: Technique and examples from two storm periods. <i>Journal of Geophysical Research</i> , 1999 , 104, 4251-4266		50
135	Analysis of nitrogen and oxygen far ultraviolet auroral emissions. <i>Journal of Geophysical Research</i> , 1982 , 87, 2444		50
134	Balmer alpha and Lyman beta in the hydrogen geocorona. <i>Journal of Geophysical Research</i> , 1969 , 74, 3561-3574		50
133	Deducing composition and incident electron spectra from ground-based auroral optical measurements: A study of auroral red line processes. <i>Journal of Geophysical Research</i> , 1989 , 94, 13541		49
132	Ionospheric and dayglow responses to the radiative phase of the Bastille Day flare. <i>Geophysical Research Letters</i> , 2002 , 29, 99-1-99-4	4.8	48
131	The ultraviolet dayglow 4. The spectrum and excitation of singly ionized oxygen. <i>Journal of Geophysical Research</i> , 1981 , 86, 3583		48

130	The production of Titan's ultraviolet nitrogen airglow. <i>Journal of Geophysical Research</i> , 2011 , 116,		46
129	Hydrogen Balmer alpha intensity distributions and line profiles from multiple scattering theory using realistic geocoronal models. <i>Journal of Geophysical Research</i> , 1987 , 92, 7619		45
128	The ultraviolet dayglow at solar maximum: 3. Photoelectron-excited emissions of N ₂ and O. <i>Journal of Geophysical Research</i> , 1985 , 90, 6608		46
127	Global and regional trends in ionospheric total electron content. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		44
126	Characteristics of the helium component of the local interstellar medium. <i>Astrophysical Journal</i> , 1981 , 246, 386	4-7	44
125	Two-dimensional mapping of the plasma density in the upper atmosphere with computerized ionospheric tomography (CIT). <i>Physics of Plasmas</i> , 1998 , 5, 2010-2021	2	44
124	Deducing composition and incident electron spectra from ground-based auroral optical measurements: Variations in oxygen density. <i>Journal of Geophysical Research</i> , 1989 , 94, 13553		43
123	Quasi two day wave-related variability in the background dynamics and composition of the mesosphere/thermosphere and the ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4786-4804	2.5	42
122	Attribution of interminima changes in the global thermosphere and ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6657-6688	2.5	41
121	Inversion of Infrasound Signals for Passive Atmospheric Remote Sensing 2010 , 701-731		39
120	Thermospheric density 2002-2004: TIMED/GUVI dayside limb observations and satellite drag. <i>Journal of Geophysical Research</i> , 2006 , 111,		41
119	Special Sensor Ultraviolet Limb Imager: an ionospheric and neutral density profiler for the Defense Meteorological Satellite Program satellites. <i>Optical Engineering</i> , 1994 , 33, 423	1	41
118	Apollo 16 Lyman alpha imagery of the hydrogen geocorona. <i>Journal of Geophysical Research</i> , 1976 , 81, 1664-1672		41
117	Nitrogen airglow sources: Comparison of Triton, Titan, and Earth. <i>Geophysical Research Letters</i> , 1991 , 18, 689-692	4.8	40
116	Atmospheric scattering of middle uv radiation from an internal source. <i>Applied Optics</i> , 1978 , 17, 3216-251.7		39
115	The UV dayglow 3, OI emissions at 989, 1027, 1152, 1304, and 1356A. <i>Geophysical Research Letters</i> , 1980 , 7, 1057-1060	4.8	37
114	The UV dayglow 2, Ly α and Ly β emissions and the H distribution in the mesosphere and thermosphere. <i>Geophysical Research Letters</i> , 1980 , 7, 529-532	4.8	37
113	Antarctic mesospheric clouds formed from space shuttle exhaust. <i>Geophysical Research Letters</i> , 2005 , 32,	4.8	36

112	Solar EUV irradiance variability derived from terrestrial far ultraviolet dayglow observations. <i>Geophysical Research Letters</i> , 2004 , 31,	4.8	35
111	Effects of anisotropic multiple scattering on solar radiation in the troposphere and stratosphere. <i>Applied Optics</i> , 1979 , 18, 1955-60	1.7	35
110	Tropical UV arcs: Comparison of brightness with DF 2. <i>Journal of Geophysical Research</i> , 1973 , 78, 3189-3193		35
109	First satellite observations of the He+ 304-Å radiation and its interpretation. <i>Journal of Geophysical Research</i> , 1974 , 79, 1572-1574		33
108	The EUV dayglow at high spectral resolution. <i>Journal of Geophysical Research</i> , 1990 , 95, 4113		33
107	Remote sensing of the ionospheric F layer by use of O I 6300-Å and O I 1356-Å observations. <i>Journal of Geophysical Research</i> , 1975 , 80, 2327-2332		33
106	Comet kohoutek: ultraviolet images and spectrograms. <i>Science</i> , 1974 , 185, 702-5	32.2	32
105	Absorption of the solar Lyman alpha line by geocoronal atomic hydrogen. <i>Journal of Geophysical Research</i> , 1970 , 75, 6969-6979		32
104	Observations of the O I 1304-Å airglow from Ogo 4. <i>Journal of Geophysical Research</i> , 1971 , 76, 4608-4620		32
103	Ionospheric total electron content: Global and hemispheric climatology. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		30
102	The far ultraviolet vehicle glow of the S3-4 satellite. <i>Geophysical Research Letters</i> , 1987 , 14, 628-631	4.8	30
101	O and N2 disturbances in the F region during the 20 November 2003 storm seen from TIMED/GUVI. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		29
100	HubbleSpaceTelescopeUltraviolet Imaging and High-Resolution Spectroscopy of Water Photodissociation Products in Comet Hyakutake (C/1996 B2). <i>Astrophysical Journal</i> , 1998 , 494, 816-821	4.7	29
99	A resolution of the N2 Carroll-Yoshino (c4? - X) band problem in the Earth's atmosphere. <i>Journal of Geophysical Research</i> , 1994 , 99, 417		29
98	Atomic hydrogen and solar Lyman H flux deduced from STP 78-1 UV observations. <i>Journal of Geophysical Research</i> , 1987 , 92, 8759		29
97	Satellite observations of the oi 1304, 1356 and 1641 Å dayglow and the abundance of atomic oxygen in the thermosphere. <i>Planetary and Space Science</i> , 1988 , 36, 963-973	2	29
96	On the relationship between the solar soft X ray flux and thermospheric nitric oxide: An update with an improved photoelectron model. <i>Journal of Geophysical Research</i> , 1995 , 100, 19687		28
95	Reanalysis of Pioneer Orbiter ultraviolet spectrometer data: OI 1304 intensities and atomic oxygen densities. <i>Geophysical Research Letters</i> , 1986 , 13, 229-232	4.8	28

94	Observations of equatorial EUV bands: Evidence for low-altitude precipitation of ring current helium. <i>Journal of Geophysical Research</i> , 1975 , 80, 2813-2818		28
93	Angle-dependent frequency redistribution in a plane-parallel medium - External source case. <i>Astrophysical Journal</i> , 1980 , 240, 185	4-7	27
92	Actinic radiation in the terrestrial atmosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1997 , 59, 2111-2157	2	27
91	Magnetic field-aligned electric field acceleration and the characteristics of the optical aurora. <i>Journal of Geophysical Research</i> , 1987 , 92, 6163		27
90	The OII 834 Å dayglow: A general model for excitation rate and intensity calculations. <i>Planetary and Space Science</i> , 1985 , 33, 1179-1186	2	27
89	Spectroscopy of the O I 989- and 7990-Å multiplets in the dayglow and aurora. <i>Journal of Geophysical Research</i> , 1982 , 87, 6307		27
88	Extreme ultraviolet observations of the latitudinal variation of helium. <i>Journal of Geophysical Research</i> , 1974 , 79, 1575-1578		27
87	OGO 3 observations of the Lyman alpha intensity and the hydrogen concentration beyond 5 RE. <i>Journal of Geophysical Research</i> , 1970 , 75, 1837-1847		27
86	Ogo-4 observations of the Lyman-Birge-Hopfield emission in the day airglow. <i>Journal of Geophysical Research</i> , 1971 , 76, 6146-6158		27
85	Investigation of ionospheric O ⁺ remote sensing using the 834-Å airglow. <i>Journal of Geophysical Research</i> , 1997 , 102, 2441-2456		26
84	Production of N ⁺ * from N ₂ + hv: Effective EUV emission yields from laboratory and dayglow data. <i>Planetary and Space Science</i> , 1991 , 39, 1197-1207	2	26
83	Determination of atmospheric composition and temperature from the u.v. airglow. <i>Planetary and Space Science</i> , 1983 , 31, 967-976	2	26
82	Solar Lyman Series Line Profiles and Atomic Hydrogen Excitation Rates. <i>Astrophysical Journal</i> , 1995 , 452, 462	4-7	25
81	On the consistency of satellite measurements of thermospheric composition and solar EUV irradiance with Australian ionosonde electron density data. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		24
80	Atomic oxygen in the thermosphere during the July 13, 1982, solar proton event deduced from far ultraviolet images. <i>Journal of Geophysical Research</i> , 1999 , 104, 4267-4278		23
79	The OI 989 and 1173 Å multiplets in the dayglow. <i>Planetary and Space Science</i> , 1988 , 36, 987-1003	2	23
78	Atomic oxygen emissions observed from Pioneer Venus. <i>Geophysical Research Letters</i> , 1983 , 10, 214-217.4.8		23
77	Observations of far and extreme ultraviolet OI emissions in tropical ionosphere. <i>Planetary and Space Science</i> , 1976 , 24, 945-950	2	23

76	Depressions in the far-ultraviolet airglow over the poles. <i>Journal of Geophysical Research</i> , 1970 , 75, 6218-6232	23	
75	Observations of conjugate excitation of the O I 1304-A airglow. <i>Journal of Geophysical Research</i> , 1971 , 76, 242-247	23	
74	Origins of the Thermosphere-Ionosphere Semiannual Oscillation: Reformulating the Thermospheric Spoon Mechanism. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 931-954	2.5	20
73	Radiative transfer modeling of the OI 135.6nm emission in the nighttime ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 10116-10135	2.5	21
72	Measured and modeled ionospheric densities, temperatures, and winds during the international polar year. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		22
71	Interpretation of Dynamics Explorer far UV images of the quiet time thermosphere. <i>Journal of Geophysical Research</i> , 1995 , 100, 5777		22
70	Global Ultraviolet Imager (GUVI) for the NASA Thermosphere-Ionosphere-Mesosphere Energetics and Dynamics (TIMED) mission 1994 , 2266, 451		20
69	The scattering rate of solar 834 Å radiation by magnetospheric O+ and O++. <i>Geophysical Research Letters</i> , 1990 , 17, 1613-1616	4.8	21
68	Ionospheric total electron content: Spatial patterns of variability. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,367-10,402	2.5	20
67	Oxygen atom Rydberg emission in the equatorial ionosphere from radiative recombination. <i>Journal of Geophysical Research</i> , 2004 , 109,		20
66	Quenching rate coefficients for O+(2P) derived from middle ultraviolet airglow. <i>Journal of Geophysical Research</i> , 2003 , 108,		19
65	The O I 3d ² D ^o - 2p4 ² P Transition at 1026 Å in the Day Airglow. <i>Journal of Geophysical Research</i> , 1987 , 92, 8767		19
64	Balmer alpha distributions over a solar cycle: Comparison of observations with theory. <i>Journal of Geophysical Research</i> , 1971 , 76, 1006-1016		19
63	Discrete inverse theory for 834-Å ionospheric remote sensing. <i>Radio Science</i> , 1997 , 32, 1973-1984	1.3	18
62	Can molecular diffusion explain Space Shuttle plume spreading?. <i>Geophysical Research Letters</i> , 2010 , 37,	4.8	17
61	Resolution of the discrepancy between Balmer H emission rates, the solar Lyman H flux, and models of geocoronal hydrogen concentration. <i>Journal of Geophysical Research</i> , 1976 , 81, 5587-5590		17
60	Angle-dependent frequency redistribution - Internal source case. <i>Astrophysical Journal</i> , 1981 , 250, 376	4.7	16
59	Constraining and validating the Oct/Nov 2003 X-class EUV flare enhancements with observations of FUV dayglow and E-region electron densities. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		16

58	On the N ₂ Lyman-Birge-Hopfield Band Nightglow. <i>Journal of Geophysical Research</i> , 1983 , 88, 4929		16
57	Lyman- β imagery of Comet Kohoutek. <i>Icarus</i> , 1974 , 23, 526-537	3.7	16
56	Temporal variations of solar Lyman alpha. <i>Journal of Geophysical Research</i> , 1969 , 74, 6487-6490		16
55	Simultaneous measurements of the hydrogen airglow emissions of Lyman alpha, Lyman beta, and Balmer alpha. <i>Journal of Geophysical Research</i> , 1971 , 76, 7734-7744		16
54	Inversion of plasmaspheric EUV remote sensing data from the STP 72-1 satellite. <i>Journal of Geophysical Research</i> , 1998 , 103, 17505-17518		15
53	The Π - Σ transition in atomic oxygen: A new method of measuring the O abundance in planetary thermospheres. <i>Geophysical Research Letters</i> , 1985 , 12, 601-604	4.8	15
52	Atmospheric quantal emissions: A review of recent results. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1985 , 47, 623-642		15
51	The seasonal-latitudinal variation of exospheric helium from He 584-A Dayglow emissions. <i>Journal of Geophysical Research</i> , 1979 , 84, 1914		14
50	Bright polar mesospheric clouds formed by main engine exhaust from the space shuttle's final launch. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		14
49	Disturbed O/N ₂ Ratios and their Transport to Middle and Low Latitudes. <i>Geophysical Monograph Series</i> , 2013 , 221-234	1.1	14
48	Investigation of the causes of the longitudinal variation of the electron density in the Weddell Sea Anomaly. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6562-6583	2.5	14
47	An analysis of the effects of N ₂ absorption on the O ⁺ 834- \AA Emission from rocket observations. <i>Journal of Geophysical Research</i> , 1989 , 94, 17281		14
46	Predictions of the hydrogen Lyman β coma of Comet Halley. <i>Icarus</i> , 1985 , 62, 521-537	3.7	14
45	Verification of large-scale rapid transport in the lower thermosphere: Tracking the exhaust plume of STS-107 from launch to the Antarctic. <i>Journal of Geophysical Research</i> , 2011 , 116,		13
44	A Monte Carlo Study of Frequency Redistribution in an Externally Excited Medium. <i>Astrophysical Journal</i> , 1978 , 219, 262	4.7	13
43	Analysis of the helium component of the local interstellar medium. <i>Astrophysical Journal</i> , 1979 , 227, 816-827	4.7	13
42	Theoretical tools for studies of low-frequency thermospheric variability. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5853-5873	2.5	12
41	A study of space shuttle plumes in the lower thermosphere. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		12

40	Analysis of the solar O II/O III multiplets at 834 Å - Implications for the emission measure distribution in the vicinity of 40,000 K. <i>Astrophysical Journal</i> , 1991 , 369, 570	4-7	12
39	Comparison of Global Ultraviolet Imager limb and disk observations of column O/N ₂ during a geomagnetic storm. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		11
38	A methodology for using optimal MSIS parameters retrieved from SSULI data to compute satellite drag on LEO objects. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2000 , 62, 1317-1326	2	11
37	Instrumentation on the Remote Atmospheric and Ionospheric Detection System Experiment: extreme-ultraviolet spectrometer, photometer, and near-infrared spectrometer. <i>Optical Engineering</i> , 1993 , 32, 3054	1	11
36	Far-ultraviolet imaging spectrograph and scanning grating spectrometers for the Remote Atmospheric and Ionospheric Detection System. <i>Optical Engineering</i> , 1994 , 33, 430	1	11
35	Daytime O/N Retrieval Algorithm for the Ionospheric Connection Explorer (ICON). <i>Space Science Reviews</i> , 2018 , 214, 1	7-4	9
34	Inferring Nighttime Ionospheric Parameters With the Far Ultraviolet Imager Onboard the Ionospheric Connection Explorer. <i>Space Science Reviews</i> , 2018 , 214, 1	7-4	9
33	Model for generating global images of emission from the thermosphere. <i>Applied Optics</i> , 1994 , 33, 3578-3587		9
32	Absolute O and O ₂ concentrations in the thermosphere from SKYLAB occultation data. <i>Planetary and Space Science</i> , 1992 , 40, 1153-1166	2	9
31	Geocoronal Lyman β and Balmer ϵ emissions measured during the Apollo 16 mission. <i>Journal of Geophysical Research</i> , 1977 , 82, 737-739		9
30	Improved model of Mie scattering contribution to tropospheric and stratospheric photodissociation fluxes. <i>Applied Optics</i> , 1980 , 19, 1230-1	1-7	9
29	UV Molecular Spectroscopy from Electron Impact for Applications to Planetary Atmospheres and Astrophysics 2010 , 761-804		8
28	Similarity transformation-based analysis of atmospheric models, data, and inverse remote sensing algorithms. <i>Journal of Geophysical Research</i> , 2001 , 106, 15519-15532		8
27	High-altitude measurement of the Lyman alpha nightglow at solar minimum. <i>Journal of Geophysical Research</i> , 1970 , 75, 4224-4229		8
26	Space shuttle exhaust plumes in the lower thermosphere: Advective transport and diffusive spreading. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014 , 108, 50-60	2	7
25	Analytical representation of g factors for rapid, accurate calculation of excitation rates in the dayside thermosphere. <i>Journal of Geophysical Research</i> , 1997 , 102, 14485-14498		7
24	The 200- to 300-nm radiation field in the stratosphere: Comparison of models with observation. <i>Journal of Geophysical Research</i> , 1993 , 98, 2741-2745		7
23	Issues relating to H ₂ in the 1304 Å far u.v. dayglow. <i>Planetary and Space Science</i> , 1987 , 35, 1297-1299		7

22	On the fast zonal transport of the STS-121 space shuttle exhaust plume in the lower thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013 , 94, 19-27	2	6
21	Thermal plasmaspheric morphology: Effect of geomagnetic and solar activity. <i>Journal of Geophysical Research</i> , 1999 , 104, 10285-10294		6
20	A search for small comets with the Naval Space Command radar. <i>Journal of Geophysical Research</i> , 1999 , 104, 12637-12643		6
19	Imagers for the magnetosphere, aurora, and plasmasphere. <i>Optical Engineering</i> , 1994 , 33, 391	1	6
18	Annual and Semiannual Oscillations of Thermospheric Composition in TIMED/GUVI Limb Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 3067	2.5	5
17	Observations of hydrogen Lyman α emission from missile trails. <i>Journal of Geophysical Research</i> , 1999 , 104, 10101-10109		5
16	Enhanced empirical models of the thermosphere. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 2000 , 25, 537-542		4
15	Thermospheric aurora and airglow. <i>Reviews of Geophysics</i> , 1987 , 25, 471	22.6	5
14	Investigation of the Causes of the Longitudinal and Solar Cycle Variation of the Electron Density in the Bering Sea and Weddell Sea Anomalies. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7825-7842	2.5	4
13	Atomic oxygen photoionization rates computed with high resolution cross sections and solar fluxes. <i>Geophysical Research Letters</i> , 2007 , 34,	4.8	4
12	A study of partial frequency redistribution of monochromatic source radiation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1981 , 25, 137-143	2.1	4
11	On the latitudinal variation of the semiannual oscillation in received solar radiation and temperature. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019 , 194, 105098	2	3
10	The Thermospheric Column O/N Ratio. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029059		3
9	Multiple Scattering of Hydrogen Ly α Radiation in the Coma of Comet Hyakutake (C/1996 B2). <i>Astrophysical Journal</i> , 2000 , 531, 599-611	4.7	3
8	Rocket twilight observations of H I 1216 A horizon brightening near 150 kilometers. <i>Journal of Geophysical Research</i> , 1971 , 76, 2437-2440		3
7	Far-Ultraviolet Studies of Missile Trails 1976 ,		2
6	Reply [to Comment on A search for small comets with the Naval Space Command Radar] by S. Knowles et al. <i>Journal of Geophysical Research</i> , 1999 , 104, 22609-22611		2
5	The Remote Atmospheric And Ionospheric Detection System 1986 ,		2

4	Low latitude airglow. <i>Reviews of Geophysics</i> , 1979 , 17, 485	22.6	2
3	Geospace imaging using Thomson scattering. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 132-142	2	1
2	Similarity transformations for fitting of geophysical properties: Application to altitude profiles of upper atmospheric species. <i>Journal of Geophysical Research</i> , 2000 , 105, 18599-18608		1
1	First results from the retrieved column O/N ratio from the Ionospheric Connection Explorer (ICON): Evidence of the impacts of nonmigrating tides. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029575	2.5	