Jorge Chau

List of Publications by Year
in descending order

208	6,233	87843 38	95218 68
papers	citations	h-index	g-index

234	234	234	2215
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unexpected connections between the stratosphere and ionosphere. Geophysical Research Letters, 2010, 37, .	1.5	241
2	Penetration of the solar wind electric field into the magnetosphere/ionosphere system. Geophysical Research Letters, 2003, 30, .	1.5	236
3	Quiet variability of equatorial E Ã— B drifts during a sudden stratospheric warming event. Geophysical Research Letters, 2009, 36, .	1.5	229
4	Impact of sudden stratospheric warmings on equatorial ionization anomaly. Journal of Geophysical Research, 2010, 115, .	3.3	197
5	Equatorial Ionospheric Electric Fields During the November 2004 Magnetic Storm. Journal of Geophysical Research, 2007, 112, .	3.3	188
6	Lunarâ€dependent equatorial ionospheric electrodynamic effects during sudden stratospheric warmings. Journal of Geophysical Research, 2010, 115, .	3.3	187
7	Equatorial and Low Latitude Ionospheric Effects During Sudden Stratospheric Warming Events. Space Science Reviews, 2012, 168, 385-417.	3.7	183
8	Daytime verticalEÃ—Bdrift velocities inferred from ground-based magnetometer observations at low latitudes. Space Weather, 2004, 2, n/a-n/a.	1.3	174
9	Equatorial spread-F initiation: Post-sunset vortex, thermospheric winds, gravity waves. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 2416-2427.	0.6	124
10	Penetration electric fields: Efficiency and characteristic time scale. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 1135-1146.	0.6	118
11	Quiet time ionospheric variability over Arecibo during sudden stratospheric warming events. Journal of Geophysical Research, 2010, 115, .	3.3	109
12	Ionospheric effects of sudden stratospheric warming during moderateâ€toâ€high solar activity: Case study of January 2013. Geophysical Research Letters, 2013, 40, 4982-4986.	1.5	102
13	Enhanced lunar semidiurnal equatorial vertical plasma drifts during sudden stratospheric warmings. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	93
14	Observations of meteor-head echoes using the Jicamarca 50MHz radar in interferometer mode. Atmospheric Chemistry and Physics, 2004, 4, 511-521.	1.9	89
15	Modeling the global micrometeor input function in the upper atmosphere observed by high power and large aperture radars. Journal of Geophysical Research, 2006, 111, .	3.3	86
16	Daytime vertical and zonal velocities from 150-km echoes: Their relevance toF-region dynamics. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	83
17	Forecasting the occurrence of ionospheric scintillation activity in the equatorial ionosphere on a day-to-day basis. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1567-1572.	0.6	81
18	Ionosphere variability during the 2009 SSW: Influence of the lunar semidiurnal tide and mechanisms producing electron density variability. Journal of Geophysical Research: Space Physics, 2014, 119, 3828-3843.	0.8	78

#	Article	IF	Citations
19	Upper mesospheric lunar tides over middle and high latitudes during sudden stratospheric warming events. Journal of Geophysical Research: Space Physics, 2015, 120, 3084-3096.	0.8	74
20	How Sudden Stratospheric Warming Affects the Whole Atmosphere. Eos, 2018, 99, .	0.1	72
21	CEDAR Electrodynamics Thermosphere Ionosphere (ETI) Challenge for systematic assessment of ionosphere/thermosphere models: NmF2, hmF2, and vertical drift using groundâ€based observations. Space Weather, 2011, 9, .	1.3	71
22	Optimal aperture synthesis radar imaging. Radio Science, 2006, 41, n/a-n/a.	0.8	66
23	Global, low-latitude, verticalEÃ—Bdrift velocities inferred from daytime magnetometer observations. Space Weather, 2006, 4, n/a-n/a.	1.3	65
24	The Lowâ€Łatitude Ionosphere Sensor Network: Initial results. Radio Science, 2012, 47, .	0.8	65
25	Sporadic meteor sources as observed by the Jicamarca high-power large-aperture VHF radar. Icarus, 2007, 188, 162-174.	1.1	56
26	Variations of low-latitude geomagnetic fields andDstindex caused by magnetospheric substorms. Journal of Geophysical Research, 2004, 109, .	3.3	52
27	Climatology of postsunset equatorial spread F over Jicamarca. Journal of Geophysical Research, 2009, 114, .	3.3	52
28	Multistation digisonde observations of equatorial spread F in South America. Annales Geophysicae, 2004, 22, 3145-3153.	0.6	51
29	Onset conditions for equatorial spreadFdetermined during EQUIS II. Geophysical Research Letters, 2005, 32, .	1.5	50
30	Analysis and Hindcast Experiments of the 2009 Sudden Stratospheric Warming in WACCMX+DART. Journal of Geophysical Research: Space Physics, 2018, 123, 3131-3153.	0.8	50
31	Observations and modeling of post-midnight uplifts near the magnetic equator. Annales Geophysicae, 2006, 24, 1317-1331.	0.6	49
32	A multistatic and multifrequency novel approach for specular meteor radars to improve wind measurements in the MLT region. Radio Science, 2015, 50, 431-442.	0.8	46
33	Exceptionally strong summer-like zonal wind reversal in the upper mesosphere during winter 2015/16. Annales Geophysicae, 2017, 35, 711-720.	0.6	46
34	Validation of ICONâ€MIGHTI Thermospheric Wind Observations: 2. Greenâ€Line Comparisons to Specular Meteor Radars. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028947.	0.8	45
35	Bottom-type scattering layers and equatorial spread <i>F</i>. Annales Geophysicae, 2004, 22, 4061-4069.	0.6	44
36	Effects of large horizontal winds on the equatorial electrojet. Journal of Geophysical Research, 2002, 107, SIA 27-1-SIA 27-12.	3.3	41

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37	Full profile incoherent scatter analysis at Jicamarca. Annales Geophysicae, 2008, 26, 59-75.	0.6	40
38	Statistics of 150-km echoes over Jicamarca based on low-power VHF observations. Annales Geophysicae, 2006, 24, 1305-1310.	0.6	39
39	Rocket and radar investigation of background electrodynamics and bottom-type scattering layers at the onset of equatorial spread <i>F</i>. Annales Geophysicae, 2006, 24, 1387-1400.	0.6	39
40	Statistical characteristics of low-latitude ionospheric field-aligned irregularities obtained with the Piura VHF radar. Annales Geophysicae, 2002, 20, 1203-1212.	0.6	37
41	Comparison of zonal neutral winds with equatorial plasma bubble and plasma drift velocities. Journal of Geophysical Research: Space Physics, 2013, 118, 1802-1812.	0.8	37
42	Neutral density variation from specular meteor echo observations spanning one solar cycle. Geophysical Research Letters, 2014, 41, 6919-6925.	1.5	37
43	Low-latitude quasiperiodic echoes observed with the Piura VHF Radar in theEregion. Geophysical Research Letters, 1999, 26, 2167-2170.	1.5	36
44	Remote sensing lower thermosphere wind profiles using nonâ€specular meteor echoes. Geophysical Research Letters, 2009, 36, .	1.5	36
45	FIRST VERY LOW FREQUENCY DETECTION OF SHORT REPEATED BURSTS FROM MAGNETAR SGR J1550â€“5418. Astrophysical Journal Letters, 2010, 721, L24-L27.	3.0	36
46	Retrieving horizontally resolved wind fields using multi-static meteor radar observations. Atmospheric Measurement Techniques, 2018, 11, 4891-4907.	1.2	36
47	SOUTHTRAC-GW: An Airborne Field Campaign to Explore Gravity Wave Dynamics at the Worldâ€™s Strongest Hotspot. Bulletin of the American Meteorological Society, 2021, 102, E871-E893.	1.7	36
48	Comparison of ionosonde and incoherent scatter drift measurements at the magnetic equator. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	34
49	High-resolution observations of mesospheric layers with the Jicamarca VHF radar. Advances in Space Research, 2007, 40, 734-743.	1.2	34
50	Multimodel comparison of the ionosphere variability during the 2009 sudden stratosphere warming. Journal of Geophysical Research: Space Physics, 2016, 121, 7204-7225.	0.8	34
51	Interferometric and dual beam observations of daytime Spread-F-like irregularities over Jicamarca. Geophysical Research Letters, 2001, 28, 3581-3584.	1.5	33
52	Polar mesospheric horizontal divergence and relative vorticity measurements using multiple specular meteor radars. Radio Science, 2017, 52, 811-828.	0.8	33
53	Observed diurnal and seasonal behavior of the micrometeor flux using the Arecibo and Jicamarca radars. Journal of Atmospheric and Solar-Terrestrial Physics, 2005, 67, 1196-1210.	0.6	31
54	Combined radar observations of equatorial electrojet irregularities at Jicamarca. Annales Geophysicae, 2007, 25, 457-473.	0.6	31

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55	Nonspecular meteor trails from nonâ€fieldâ€aligned irregularities: Can they be explained by presence of charged meteor dust?. Geophysical Research Letters, 2014, 41, 3336-3343.	1.5	31
56	Climatology of semidiurnal lunar and solar tides at middle and high latitudes: Interhemispheric comparison. Journal of Geophysical Research: Space Physics, 2017, 122, 7750-7760.	0.8	31
57	Possible ionospheric preconditioning by shear flow leading to equatorial spread <i>F</i>. Annales Geophysicae, 2005, 23, 2647-2655.	0.6	30
58	Application of Manleyâ€Rowe Relation in Analyzing Nonlinear Interactions Between Planetary Waves and the Solar Semidiurnal Tide During 2009 Sudden Stratospheric Warming Event. Journal of Geophysical Research: Space Physics, 2017, 122, 10,783.	0.8	30
59	Low-latitude field-aligned irregularities observed in theEregion with the Piura VHF radar: First results. Radio Science, 1999, 34, 983-990.	0.8	29
60	Persistence of a Kelvin-Helmholtz instability complex in the upper troposphere. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	29
61	Relations Between Semidiurnal Tidal Variants Through Diagnosing the Zonal Wavenumber Using a Phase Differencing Technique Based on Two Groundâ€Based Detectors. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4015-4026.	1.2	29
62	A comparison of 11-year mesospheric and lower thermospheric winds determined by meteor and MF radar at 69 Â°â€¯N. Annales Geophysicae, 2017, 35, 893-906.	0.6	28
63	Observing Mesospheric Turbulence With Specular Meteor Radars: A Novel Method for Estimating Secondâ€Order Statistics of Wind Velocity. Earth and Space Science, 2019, 6, 1171-1195.	1.1	28
64	Equatorial quasiperiodic echoes from field-aligned irregularities observed over Jicamarca. Geophysical Research Letters, 2001, 28, 207-209.	1.5	27
65	Three-dimensional coherent radar imaging at Jicamarca: comparison of different inversion techniques. Journal of Atmospheric and Solar-Terrestrial Physics, 2001, 63, 253-261.	0.6	27
66	Topside measurements at Jicamarca during solar minimum. Annales Geophysicae, 2009, 27, 427-439.	0.6	27
67	Altitudinal dependence of evening equatorial F region vertical plasma drifts. Journal of Geophysical Research: Space Physics, 2014, 119, 5877-5890.	0.8	27
68	Coded continuous wave meteor radar. Atmospheric Measurement Techniques, 2016, 9, 829-839.	1.2	27
69	Lunar atmospheric tidal effects in the plasma drifts observed by the Low-Latitude Ionospheric Sensor Network. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	26
70	Discovery of two distinct types of equatorial 150 km radar echoes. Geophysical Research Letters, 2013, 40, 4509-4514.	1.5	26
71	Results of the first continuous meteor head echo survey at polar latitudes. Icarus, 2017, 297, 1-13.	1.1	26
72	A meteoroid stream survey using meteor head echo observations from the Middle Atmosphere ALOMAR Radar System (MAARSY). Icarus, 2018, 309, 177-186.	1.1	26

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73	Mesospheric semidiurnal tides and near-12â€‰h waves through jointly analyzing observations of five specular meteor radars from three longitudinal sectors at boreal midlatitudes. Atmospheric Chemistry and Physics, 2019, 19, 5993-6006.	1.9	26
74	Novel specular meteor radar systems using coherent MIMO techniques to study the mesosphere and lower thermosphere. Atmospheric Measurement Techniques, 2019, 12, 2113-2127.	1.2	26
75	The spectral properties of low latitude daytime electric fields inferred from magnetometer observations. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 1160-1173.	0.6	25
76	Estimating E region density profiles from radio occultation measurements assisted by IDA4D. Journal of Geophysical Research, 2009, 114, .	3.3	25
77	Spectacular low- and mid-latitude electrical fields and neutral winds during a superstorm. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 285-291.	0.6	25
78	Multistatic Specular Meteor Radar Network in Peru: System Description and Initial Results. Earth and Space Science, 2021, 8, e2020EA001293.	1.1	25
79	InferringEregion electron density profiles at Jicamarca from Faraday rotation of coherent scatter. Journal of Geophysical Research, 2001, 106, 30371-30380.	3.3	24
80	Unexpected spectral characteristics of VHF radar signals from 150-km region over Jicamarca. Geophysical Research Letters, 2004, 31, .	1.5	24
81	Interhemispheric Meridional Circulation During Sudden Stratospheric Warming. Journal of Geophysical Research: Space Physics, 2019, 124, 7112-7122.	0.8	24
82	Observations of the April 2002 geomagnetic storm by the global network of incoherent scatter radars. Annales Geophysicae, 2005, 23, 163-181.	0.6	23
83	First definitive observations of meteor shower particles using a high-power large-aperture radar. Icarus, 2008, 194, 23-29.	1.1	23
84	Determination of meteor-head echo trajectories using the interferometric capabilities of MAARSY. Annales Geophysicae, 2013, 31, 1843-1851.	0.6	23
85	Coherent MIMO to Improve Aperture Synthesis Radar Imaging of Field-Aligned Irregularities: First Results at Jicamarca. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2980-2990.	2.7	23
86	Seasonal variability of atmospheric tides in the mesosphere and lower thermosphere: meteor radar data and simulations. Annales Geophysicae, 2018, 36, 825-830.	0.6	23
87	Empirical Phase Calibration for Multistatic Specular Meteor Radars Using a Beamforming Approach. Radio Science, 2019, 54, 60-71.	0.8	23
88	A high-resolution study of mesospheric fine structure with the Jicamarca MST radar. Annales Geophysicae, 2006, 24, 1281-1293.	0.6	22
89	Quasiâ€biennial oscillation modulation of the middleâ€and highâ€latitude mesospheric semidiurnal tides during Augustâ€“September. Journal of Geophysical Research: Space Physics, 2016, 121, 4869-4879.	0.8	22
90	Phase calibration approaches for radar interferometry and imaging configurations: equatorial spread F results. Annales Geophysicae, 2008, 26, 2333-2343.	0.6	22

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91	High altitude large-scale plasma waves in the equatorial electrojet at twilight. Annales Geophysicae, 2004, 22, 4071-4076.	0.6	21
92	Enhancing the spatiotemporal features of polar mesosphere summer echoes using coherent MIMO and radar imaging at MAARSY. Atmospheric Measurement Techniques, 2019, 12, 955-969.	1.2	21
93	Comparing F region ionospheric irregularity observations from C/NOFS and Jicamarca. Geophysical Research Letters, 2009, 36, .	1.5	20
94	Characterization of a Double Mesospheric Bore Over Europe. Journal of Geophysical Research: Space Physics, 2017, 122, 9738-9750.	0.8	20
95	First Jicamarca radar observations of two-streamEregion irregularities under daytime counter equatorial electrojet conditions. Journal of Geophysical Research, 2002, 107, SIA 18-1-SIA 18-8.	3.3	19
96	First E- and D-region incoherent scatter spectra observed over Jicamarca. Annales Geophysicae, 2006, 24, 1295-1303.	0.6	19
97	Nonspecular meteor trail altitude distributions and durations observed by a 50 MHz highâ€power radar. Journal of Geophysical Research, 2010, 115, .	3.3	19
98	Simultaneous optical and meteor head echo measurements using the Middle Atmosphere Alomar Radar System (MAARSY): Data collection and preliminary analysis. Planetary and Space Science, 2017, 141, 25-34.	0.9	19
99	Semidiurnal solar tide differences between fall and spring transition times in the Northern Hemisphere. Annales Geophysicae, 2018, 36, 999-1008.	0.6	19
100	Zonal wind velocity profiles in the equatorial electrojet derived from phase velocities of type II radar echoes. Journal of Geophysical Research, 2005, 110, .	3.3	18
101	DandEregion incoherent scatter radar density measurements over Jicamarca. Journal of Geophysical Research, 2005, 110, .	3.3	18
102	Interplanetary electric fields and their relationship to low-latitude electric fields under disturbed conditions. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 1147-1159.	0.6	18
103	Nighttime vertical plasma drifts and the occurrence of sunrise undulation at the dip equator: A study using Jicamarca incoherent backscatter radar measurements. Geophysical Research Letters, 2013, 40, 5570-5575.	1.5	18
104	Observation of Kelvinâ€“Helmholtz instabilities and gravity waves in the summer mesopause above Andenes in Northern Norway. Atmospheric Chemistry and Physics, 2018, 18, 6721-6732.	1.9	18
105	Fourâ€Dimensional Quantification of Kelvinâ€Helmholtz Instabilities in the Polar Summer Mesosphere Using Volumetric Radar Imaging. Geophysical Research Letters, 2020, 47, e2019GL086081.	1.5	18
106	Tropospheric measurements of turbulence and characteristics of Bragg scatterers using the Jicamarca VHF radar. Radio Science, 2000, 35, 179-193.	0.8	17
107	Multi-longitude case studies comparing the interplanetary and equatorial ionospheric electric fields using an empirical model. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 1174-1181.	0.6	17
108	Day to night variation in meteor trail measurements: Evidence for a new theory of plasma trail evolution. Geophysical Research Letters, 2008, 35, .	1.5	17

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109	Sparse Signal Recovery in MIMO Specular Meteor Radars With Waveform Diversity. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 10088-10098.	2.7	17
110	Imaging radar observations and nonlocal theory of large-scale plasma waves in the equatorial electrojet. Annales Geophysicae, 2002, 20, 1167-1179.	0.6	16
111	Naturally enhanced ion-line spectra around the equatorial 150-km region. Annales Geophysicae, 2009, 27, 933-942.	0.6	16
112	On the characteristics of 150-km echoes observed in the Brazilian longitude sector by the 30 MHz SÃ£o LuÃs radar. Annales Geophysicae, 2011, 29, 1905-1916.	0.6	16
113	Equatorial ionospheric electrodynamic perturbations during Southern Hemisphere stratospheric warming events. Journal of Geophysical Research: Space Physics, 2013, 118, 1190-1195.	0.8	16
114	MAARSY multiple receiver phase calibration using radio sources. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 118, 55-63.	0.6	16
115	Quasiâ€10â€Day Wave and Semidiurnal Tide Nonlinear Interactions During the Southern Hemispheric SSW 2019 Observed in the Northern Hemispheric Mesosphere. Geophysical Research Letters, 2020, 47, e2020GL091453.	1.5	16
116	A theoretical framework for the changing spectral properties of meterâ€scale Farleyâ€Buneman waves between 90 and 125Âkm altitudes. Journal of Geophysical Research: Space Physics, 2016, 121, 10,341.	0.8	15
117	Unusual 5 m E region fieldâ€aligned irregularities observed from Northern Germany during the magnetic storm of 17 March 2015. Journal of Geophysical Research: Space Physics, 2016, 121, 10,316.	0.8	15
118	Highâ€Order Solar Migrating Tides Quench at SSW Onsets. Geophysical Research Letters, 2020, 47, e2019GL086778.	1.5	15
119	Interpretation of angle-of-arrival measurements in the lower atmosphere using spaced antenna radar systems. Radio Science, 1998, 33, 517-533.	0.8	14
120	Meteor-head echo observations using an antenna compression approach with the 450MHz Poker Flat Incoherent Scatter Radar. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 636-643.	0.6	14
121	On the role of anisotropic MF/HF scattering in mesospheric wind estimation. Earth, Planets and Space, 2018, 70, .	0.9	14
122	Can VHF radars at polar latitudes measure mean vertical winds in the presence of PMSE?. Atmospheric Chemistry and Physics, 2019, 19, 4485-4497.	1.9	14
123	Radar Observation of Extreme Vertical Drafts in the Polar Summer Mesosphere. Geophysical Research Letters, 2021, 48, e2021GL094918.	1.5	14
124	Radar cross sections for mesospheric echoes at Jicamarca. Annales Geophysicae, 2009, 27, 2675-2684.	0.6	14
125	First results of the refurbished SOUSY radar: Tropopause altitude climatology at 78Â°N, 16Â°E, 2008. Radio Science, 2009, 44, .	0.8	13
126	Anomalous Behavior of the Equatorial Ionization Anomaly During the 2 July 2019 Solar Eclipse. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027909.	0.8	13

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127	Migrating Semidiurnal Tide During the September Equinox Transition in the Northern Hemisphere. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033822.	1.2	13
128	First Studies of Mesosphere and Lower Thermosphere Dynamics Using a Multistatic Specular Meteor Radar Network Over Southern Patagonia. Earth and Space Science, 2021, 8, e2020EA001356.	1.1	13
129	Quasiâ€2â€Day Wave in Lowâ€Latitude Atmospheric Winds as Viewed From the Ground and Space During Januaryâ€“March, 2020. Geophysical Research Letters, 2021, 48, e2021GL093466.	1.5	13
130	Meteor velocity determination with plasma physics. Atmospheric Chemistry and Physics, 2004, 4, 817-824.	1.9	12
131	Radioâ€tomographic images of postmidnight equatorial plasma depletions. Geophysical Research Letters, 2014, 41, 13-19.	1.5	12
132	On the angular dependence and scattering model of polar mesospheric summer echoes at VHF. Journal of Geophysical Research D: Atmospheres, 2016, 121, 278-288.	1.2	12
133	Solar Flare Effects on 150â€km Echoes Observed Over Jicamarca: WACCMâ€X Simulations. Geophysical Research Letters, 2019, 46, 10951-10958.	1.5	12
134	Two decades of long-term observations of polar mesospheric echoes at 69Â°N. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 216, 105576.	0.6	12
135	Electron density profiles in the equatorialEregion ionosphere derived from a bistatic coherent scatter radar experiment in PerÃº. Geophysical Research Letters, 2005, 32, .	1.5	11
136	Turbulent kinetic energy dissipation rates and eddy diffusivities in the tropical mesosphere using Jicamarca radar data. Advances in Space Research, 2007, 40, 744-750.	1.2	11
137	A multi-beam incoherent scatter radar technique for the estimation of ionospheric electron density and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0005.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>T</mml:mi></mml:mrow><mml:mrow><mml:mi>e</mml:mi></mml:mrow></mml:msub></mml:math> profiles at Jicamarca. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 105-106, 214-229.	0.6	11
138	The 16â€Day Planetary Wave Triggers the SW1â€Tidalâ€Like Signatures During 2009 Sudden Stratospheric Warming. Geophysical Research Letters, 2018, 45, 12,631.	1.5	11
139	Middleâ€and Highâ€Latitude Mesosphere and Lower Thermosphere Mean Winds and Tides in Response to Strong Polarâ€Night Jet Oscillations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9262-9276.	1.2	11
140	On the Balance Between Plasma and Magnetic Pressure Across Equatorial Plasma Depletions. Journal of Geophysical Research: Space Physics, 2019, 124, 5936-5944.	0.8	11
141	A statistical comparison of VHF techniques to study clear-air vertical velocities in the lower atmosphere using the Jicamarca radar. Radio Science, 1998, 33, 1565-1583.	0.8	10
142	Patches of polar mesospheric summer echoes characterized from radar imaging observations with MAARSY. Annales Geophysicae, 2016, 34, 1231-1241.	0.6	10
143	Gravity Waveâ€Induced Ionospheric Irregularities in the Postsunset Equatorial Valley Region. Journal of Geophysical Research: Space Physics, 2017, 122, 11,579.	0.8	10
144	Mesospheric gravity wave activity estimated via airglow imagery, multistatic meteor radar, and SABER data taken during the SIMONeâ€“2018 campaign. Atmospheric Chemistry and Physics, 2021, 21, 13631-13654.	1.9	10

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145	Near-infrared sky background fluctuations at mid- and low latitudes. Experimental Astronomy, 2008, 22, 87.	1.6	9
146	PMSE strength during enhanced D region electron densities: Faraday rotation and absorption effects at VHF frequencies. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 118, 113-118.	0.6	9
147	Experimental Evidence of Arctic Summer Mesospheric Upwelling and Its Connection to Cold Summer Mesopause. Geophysical Research Letters, 2017, 44, 9151-9158.	1.5	9
148	Zonal Wave Number Diagnosis of Rossby Waveâ€Like Oscillations Using Paired Groundâ€Based Radars. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031599.	1.2	9
149	Antenna compression using binary phase coding. Radio Science, 2001, 36, 45-51.	0.8	8
150	An imaging interferometry capability for the EISCAT Svalbard Radar. Annales Geophysicae, 2005, 23, 221-230.	0.6	8
151	Radar imaging with EISCAT 3D. Annales Geophysicae, 2021, 39, 119-134.	0.6	8
152	Sounding rocket project â€œPMWEâ€•for investigation of polar mesosphere winter echoes. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 218, 105596.	0.6	8
153	Comparison of MLT Momentum Fluxes Over the Andes at Four Different Latitudinal Sectors Using Multistatic Radar Configurations. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	8
154	Multi-static spatial and angular studies of polar mesospheric summer echoes combining MAARSY and KAIRA. Atmospheric Chemistry and Physics, 2018, 18, 9547-9560.	1.9	7
155	Long-term studies of mesosphere and lower-thermosphere summer length definitions based on mean zonal wind features observed for more than one solar cycle at middle and high latitudes in the Northern Hemisphere. Annales Geophysicae, 2022, 40, 23-35.	0.6	7
156	Improved spectral observations of equatorial spread F echoes at Jicamarca using aperiodic transmitter coding. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1543-1548.	0.6	6
157	Modeling the low-latitude ionospheric electron density and plasma turbulence in the November 2004 storm period. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 350-357.	0.6	6
158	On high timeâ€•range resolution observations of PMSE: Statistical characteristics. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6713-6722.	1.2	6
159	The Case for Combining a Large Lowâ€Band Very High Frequency Transmitter With Multiple Receiving Arrays for Geospace Research: A Geospace Radar. Radio Science, 2019, 54, 533-551.	0.8	6
160	VIPIR and 50 MHz Radar Studies of Gravity Wave Signatures in 150â€km Echoes Observed at Jicamarca. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027535.	0.8	6
161	Connecting large-scale velocity and temperature bursts with small-scale intermittency in stratified turbulence. Europhysics Letters, 2021, 135, 14001.	0.7	6
162	Geometric considerations of polar mesospheric summer echoes in tilted beams using coherent radar imaging. Advances in Radio Science, 0, 12, 197-203.	0.7	6

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163	A statistical comparison of horizontal winds obtained by a variety of spaced antenna techniques using the Jicamarca VHF radar. Radio Science, 1998, 33, 1669-1683.	0.8	5
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