

Dou Xiankang

List of Publications by Year in descending order

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121
papers

2,248
citations

249298

26
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355658

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122
all docs

122
docs citations

122
times ranked

1528
citing authors

#	ARTICLE	IF	CITATIONS
1	Secondary 12â€­Day Planetary Wave in the Mesospheric Water Vapor During the 2016/2017 Unusual Canadian Stratospheric Warming. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	3
2	The Impact of the Quasiâ€­Biennial Oscillation on the Mesosphere and Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
3	Comparison between the Mesospheric Winds Observed by Two Collocated Meteor Radars at Low Latitudes. <i>Remote Sensing</i> , 2022, 14, 2354.	1.8	6
4	Ionospheric Nighttime Enhancements in the Equatorial Region as Revealed by the Beidou Geostationary TEC Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
5	Using GNSS radio occultation data to derive critical frequencies of the ionospheric sporadic E layer in real time. <i>GPS Solutions</i> , 2021, 25, 1.	2.2	9
6	First Observations of Antarctic Mesospheric Tidal Wind Responses to Recurrent Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089957.	1.5	10
7	Interhemispheric transport of metallic ions within ionospheric sporadic <i>E</i> layers by the lower thermospheric meridional circulation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4219-4230.	1.9	24
8	Multivariate Analysis on the Ionospheric Responses to Planetary Waves During the 2019 Antarctic SSW Event. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028588.	0.8	6
9	Climatology of Interhemispheric Mesopause Temperatures Using the Highâ€­Latitude and Middleâ€­Latitude Meteor Radars. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034301.	1.2	4
10	Nonâ€­line-of-sight imaging over 1.43 km. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	64
11	The sporadic sodium layer: a possible tracer for the conjunction between the upper and lower atmospheres. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11927-11940.	1.9	6
12	A Signature of 27 day Solar Rotation in the Concentration of Metallic Ions within the Terrestrial Ionosphere. <i>Astrophysical Journal</i> , 2021, 916, 106.	1.6	12
13	Characteristics of Medium-Scale Traveling Ionospheric Disturbances and Ionospheric Irregularities at Mid-Latitudes Revealed by the Total Electron Content Associated With the Beidou Geostationary Satellite. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 6424-6430.	2.7	4
14	On the Westward Quasiâ€­8â€­Day Planetary Waves in the Middle Atmosphere During Arctic Sudden Stratospheric Warmings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035071.	1.2	7
15	Responses of the Ionosphere and MLT Neutral Winds in the Asianâ€­Australian sector to the 2019 Southern Hemisphere Sudden Stratospheric Warming. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028653.	0.8	6
16	Unexpected Decrease in TW3 Amplitude During Antarctic Sudden Stratospheric Warming Events as Revealed by SDâ€­WACCMâ€­X. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029050.	0.8	3
17	Ionospheric Diurnal Doubleâ€­Maxima Patterns Observed by the TEC From Beidou Geostationary Satellites in the Asianâ€­Australian Sector During 2016â€­2018. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	6
18	Impact of Solar Activity on Global Atmospheric Circulation Based on SD-WACCM-X Simulations from 2002 to 2019. <i>Atmosphere</i> , 2021, 12, 1526.	1.0	1

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19	Global Effects of a Polar Solar Eclipse on the Coupled Magnetosphere-Ionosphere System. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	10
20	A New Mechanism for the Generation of Quasi-6-Day and Quasi-10-Day Waves During the 2019 Antarctic Sudden Stratospheric Warming. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035568.	1.2	5
21	Eastward-propagating planetary waves in the polar middle atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17495-17512.	1.9	6
22	Quasi-Two-Day Waves in the Northern Hemisphere Observed by TIMED/SABER Measurements During 2002-2019. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	4
23	Can the Madden-Julian Oscillation Affect the Antarctic Total Column Ozone?. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088886.	1.5	2
24	Derivation of global ionospheric Sporadic E critical frequency (f_oE_s) data from the amplitude variations in GPS/GNSS radio occultations. <i>Royal Society Open Science</i> , 2020, 7, 200320.	1.1	24
25	Prominent Daytime TEC Enhancements Under the Quiescent Condition of January 2017. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088398.	1.5	11
26	Different Peak Response Time of Daytime Thermospheric Neutral Species to the 27-Day Solar EUV Flux Variations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027840.	0.8	8
27	A Machine Learning Approach to Derive Long-Term Trends of Thermospheric Density. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087140.	1.5	14
28	Tidal Variations in the Ionosphere and Mesosphere Over Eastern China During 2014. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027526.	0.8	0
29	Response of the High-latitude Upper Mesosphere to Energetic Electron Precipitation. <i>Astrophysical Journal</i> , 2020, 893, 55.	1.6	3
30	Responses of middle atmospheric circulation to the 2009 major sudden stratospheric warming. <i>Earth and Planetary Physics</i> , 2020, 4, 1-7.	0.4	4
31	Response of the Northern Stratosphere to the Madden-Julian Oscillation During Boreal Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5314-5331.	1.2	15
32	Climatology of the mesopause relative density using a global distribution of meteor radars. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7567-7581.	1.9	14
33	A Simulation Study on the Time Delay of Daytime Thermospheric Temperature Response to the 27-Day Solar EUV Flux Variation. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9184-9193.	0.8	10
34	Topside Ionospheric Conditions During the 7-8 September 2017 Geomagnetic Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9381-9404.	0.8	25
35	Ionospheric Interhemispheric Asymmetry Induced by Planetary Wave Under Solar Minimum Condition. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9302-9314.	0.8	3
36	Thermospheric Density Cells at High Latitudes as Observed by GOCE Satellite: Preliminary Results. <i>Geophysical Research Letters</i> , 2019, 46, 11615-11621.	1.5	2

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37	Large-scale Horizontally Enhanced Sodium Layers Coobserved in the Midlatitude Region of China. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7614-7628.	0.8	7
38	Middle-Latitudinal Band Structure Observed in the Nighttime Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5857-5873.	0.8	29
39	The 27-Day Solar Rotational Cycle Response in the Mesospheric Metal Layers at Low Latitudes. <i>Geophysical Research Letters</i> , 2019, 46, 7199-7206.	1.5	6
40	Empirical Orthogonal Function Analysis and Modeling of the Topside Ionospheric and Plasmaspheric TECs. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3681-3698.	0.8	5
41	The global climatology of the intensity of the ionospheric sporadic E layer. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4139-4151.	1.9	51
42	Daytime Periodic Wave-like Structures in the Ionosphere Observed at Low Latitudes over the Asian-Australian Sector Using Total Electron Content from Beidou Geostationary Satellites. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2312-2322.	0.8	16
43	The intensification of metallic layered phenomena above thunderstorms through the modulation of atmospheric tides. <i>Scientific Reports</i> , 2019, 9, 17907.	1.6	10
44	Long-lived high-frequency gravity waves in the atmospheric boundary layer: observations and simulations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15431-15446.	1.9	28
45	Climatology and Anomaly of the Quasi-Two Day Wave Behaviors During 2003-2018 Austral Summer Periods. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 544-556.	0.8	12
46	Climatology of the Quasi-Day Wave in the Mesopause Region and Its Modulations on Total Electron Content During 2003-2017. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 573-583.	0.8	13
47	Ionospheric Variability Due to Tides and Quasi-Two Day Wave Interactions. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1554-1565.	0.8	21
48	An Exospheric Temperature Model Based On CHAMP Observations and TIEGCM Simulations. <i>Space Weather</i> , 2018, 16, 147-156.	1.3	29
49	Was Magnetic Storm the Only Driver of the Long-Duration Enhancements of Daytime Total Electron Content in the Asian-Australian Sector Between 7 and 12 September 2017?. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3217-3232.	0.8	87
50	Nighttime Medium-Scale Traveling Ionospheric Disturbances From Airglow Imager and Global Navigation Satellite Systems Observations. <i>Geophysical Research Letters</i> , 2018, 45, 31-38.	1.5	52
51	High- and Middle-Latitude Neutral Mesospheric Density Response to Geomagnetic Storms. <i>Geophysical Research Letters</i> , 2018, 45, 436-444.	1.5	23
52	On the Relation Between Soft Electron Precipitations in the Cusp Region and Solar Wind Coupling Functions. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 211-226.	0.8	1
53	Sudden Sodium Layers: Their Appearance and Disappearance. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5102-5118.	0.8	6
54	Does the Peak Response of the Ionospheric F_2 Region Plasma Lag the Peak of 27-Day Solar Flux Variation by Multiple Days?. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7906-7916.	0.8	24

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55	Assessment of the Simulation of Gravity Waves Generation by a Tropical Cyclone in the High-Resolution WACCM and the WRF. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2214-2227.	1.3	11
56	The Morphology of the 6-Day Wave in Both the Neutral Atmosphere and F_2 Region Ionosphere Under Solar Minimum Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4232-4240.	0.8	30
57	The Effect of the Madden-Julian Oscillation on the Mesospheric Migrating Diurnal Tide: A Study Using SD-WACCM. <i>Geophysical Research Letters</i> , 2018, 45, 5105-5114.	1.5	19
58	Seasonal variations of thermospheric mass density at dawn/dusk from GOCE observations. <i>Annales Geophysicae</i> , 2018, 36, 489-496.	0.6	11
59	Investigation of the Abnormal Quasi 2-Day Wave Activities During the Sudden Stratospheric Warming Period of January 2006. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6031-6041.	0.8	16
60	An Empirical Dayglow Model for the Lyman- α Birge-Hopfield Long Band Derived From the Polar Ultraviolet Imager Data. <i>Space Weather</i> , 2018, 16, 1101-1113.	1.3	2
61	Response of Mesospheric HO_2 and O_3 to Large Solar Proton Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5738-5746.	0.8	5
62	Global Responses of the Coupled Thermosphere and Ionosphere System to the August 2017 Great American Solar Eclipse. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7040-7050.	0.8	52
63	Auroral Energy Flux Distribution Over the Nightside Auroral Oval Observed by the DMSP F16/SSUSI: Seasonal, Geomagnetic, and Solar Activity Dependences. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4457-4466.	0.8	3
64	Multiyear Observations of Gravity Wave Momentum Fluxes in the Midlatitude Mesosphere and Lower Thermosphere Region by Meteor Radar. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5684-5703.	0.8	14
65	Brillouin optical time domain reflectometry for fast detection of dynamic strain incorporating double-edge technique. <i>Optics Communications</i> , 2017, 398, 95-100.	1.0	21
66	Daytime ionospheric longitudinal gradients seen in the observations from a regional BeiDou GEO receiver network. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6552-6561.	0.8	29
67	On the wave number 2 eastward propagating quasi 2-day wave at middle and high latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4489-4499.	0.8	11
68	An exospheric temperature model from CHAMP thermospheric density. <i>Space Weather</i> , 2017, 15, 343-351.	1.3	17
69	An overturning-like thermospheric Na layer and its relevance to ionospheric field aligned irregularity and sporadic E. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 162, 151-161.	0.6	4
70	The Modulation of the Quasi 2-Day Wave on Total Electron Content as Revealed by BeiDou GEO and Meteor Radar Observations Over Central China. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,651-10,657.	0.8	5
71	The Enhancement of Neutral Metal Na Layer Above Thunderstorms. <i>Geophysical Research Letters</i> , 2017, 44, 9555-9563.	1.5	21
72	Response of neutral mesospheric density to geomagnetic forcing. <i>Geophysical Research Letters</i> , 2017, 44, 8647-8655.	1.5	23

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73	The Response of the Southern Hemisphere Middle Atmosphere to the Madden-Julian Oscillation during Austral Winter Using the Specified-Dynamics Whole Atmosphere Community Climate Model. <i>Journal of Climate</i> , 2017, 30, 8317-8333.	1.2	15
74	First observation of mesosphere response to the solar wind high-speed streams. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9080-9088.	0.8	20
75	Longitudinal variations of topside ionospheric and plasmaspheric TEC. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6737-6760.	0.8	26
76	COSMIC GPS observations of topographic gravity waves in the stratosphere around the Tibetan Plateau. <i>Science China Earth Sciences</i> , 2017, 60, 188-197.	2.3	8
77	The quasi-2-day wave activities during 2007 austral summer period as revealed by Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2743-2754.	0.8	19
78	Long-duration depletion in the topside ionospheric total electron content during the recovery phase of the March 2015 strong storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4733-4747.	0.8	52
79	The quasi-2-day wave activities during 2007 boreal summer period as revealed by Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7256-7268.	0.8	11
80	Universal time variations of the auroral hemispheric power and their interhemispheric asymmetry from TIMED/GUVI observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,258-10,268.	0.8	6
81	A review of latitudinal characteristics of sporadic sodium layers, including new results from the Chinese Meridian Project. <i>Earth-Science Reviews</i> , 2016, 162, 83-106.	4.0	15
82	A numerical study of nighttime ionospheric variations in the American sector during 28-29 October 2003. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8985-8994.	0.8	10
83	Statistical analysis of nighttime medium-scale traveling ionospheric disturbances using airglow images and GPS observations over central China. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8887-8899.	0.8	40
84	Can atomic oxygen production explain the ionospheric annual asymmetry?. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7238-7244.	0.8	14
85	Contrasting behavior of the F2 peak and the topside ionosphere in response to the 2 October 2013 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,549-10,563.	0.8	20
86	Southern Hemisphere Summer Mesopause Responses to El Niño-Southern Oscillation. <i>Journal of Climate</i> , 2016, 29, 6319-6328.	1.2	23
87	Solar activity dependence of nightside aurora in winter conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1619-1626.	0.8	12
88	Influence of the sudden stratospheric warming on quasi-2-day waves. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4885-4896.	1.9	19
89	Estimation of mesopause temperatures at low latitudes using the Kunming meteor radar. <i>Radio Science</i> , 2016, 51, 130-141.	0.8	21
90	Determination of Differential Code Bias of GNSS Receiver Onboard Low Earth Orbit Satellite. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 4896-4905.	2.7	35

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91	Assessment of vertical TEC mapping functions for space-based GNSS observations. <i>GPS Solutions</i> , 2016, 20, 353-362.	2.2	63
92	Is the long-term variation of the estimated GPS differential code biases associated with ionospheric variability?. <i>GPS Solutions</i> , 2016, 20, 313-319.	2.2	36
93	Response of the topside and bottomside ionosphere at low and middle latitudes to the October 2003 superstorms. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6974-6986.	0.8	40
94	Sodium lidar-observed gravity wave breaking followed by an upward propagation of sporadic sodium layer over Hefei, China. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7958-7969.	0.8	9
95	A case study of typhoon-induced gravity waves and the orographic impacts related to Typhoon Mindulle (2004) over Taiwan. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9193-9207.	1.2	14
96	Signal of central Pacific El Niño in the Southern Hemispheric stratosphere during austral spring. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,438.	1.2	10
97	Feasibility study on the derivation of the O^{+} collision frequency from ionospheric field-aligned observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6029-6035.	0.8	7
98	Evidence for lightning-associated enhancement of the ionospheric sporadic E layer dependent on lightning stroke energy. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9202-9212.	0.8	23
99	Lidar observations of thermospheric Na layers up to 170 km with a descending tidal phase at Lijiang (26.7°N, 100.0°E), China. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9213-9220.	0.8	38
100	Evidence of nonlinear interaction between quasi 2-day wave and quasi-stationary wave. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1256-1263.	0.8	18
101	Quasi-stationary planetary waves in the middle atmosphere of Mars. <i>Science China Earth Sciences</i> , 2015, 58, 309-316.	2.3	5
102	Ionospheric vertical plasma drift perturbations due to the quasi 2 day wave. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3941-3948.	0.8	4
103	Temperature controlled icy dust reservoir of sodium: A possible mechanism for the formation of sporadic sodium layers. <i>Advances in Space Research</i> , 2015, 55, 2543-2565.	1.2	6
104	Observation of the neutral-ion coupling through 6-day planetary wave. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,376.	0.8	34
105	Ionospheric response to the ultrafast Kelvin wave in the MLT region. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1369-1380.	0.8	33
106	New aspects of the ionospheric response to the October 2003 superstorms from multiple-satellite observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2298-2317.	0.8	48
107	Midnight density maximum in the thermosphere from the CHAMP observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3741-3746.	0.8	12
108	Gravity wave characteristics in the mesopause region revealed from OH airglow imager observations over Northern Colorado. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 630-645.	0.8	20

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109	Lower thermospheric enhanced sodium layers observed at low latitude and possible formation: Case studies. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2409-2418.	0.8	49
110	Annual asymmetry in thermospheric density: Observations and simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2503-2510.	0.8	18
111	Sporadic and thermospheric enhanced sodium layers observed by a lidar chain over China. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6627-6643.	0.8	45
112	Observations of Quasi-Two-Day wave by TIMED/SABER and TIMED/TIDI. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1624-1639.	1.2	69
113	Influence of El Niño Southern Oscillation in the mesosphere. <i>Geophysical Research Letters</i> , 2013, 40, 3292-3296.	1.5	32
114	Long-term observations of the quasi two-day wave by Hawaii MF radar. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7886-7894.	0.8	26
115	Narrowband sodium lidar for the measurements of mesopause region temperature and wind. <i>Applied Optics</i> , 2012, 51, 5401.	0.9	39
116	Simulations of the equatorial thermosphere anomaly: Field-aligned ion drag effect. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	19
117	Annual and semiannual variations of thermospheric density: EOF analysis of CHAMP and GRACE data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	55
118	Terdiurnal migrating tide signature in ionospheric total electron content. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20
119	Meteor radar observed mesospheric semi-annual oscillation (SAO) and quasi-biennial oscillation (QBO) over Maui, Hawaii. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	11
120	Simulations of the equatorial thermosphere anomaly: Physical mechanisms for crest formation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	22
121	Latitudinal variations of middle thermosphere: Observations and modeling. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	8