

Subramanian Gurubaran

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114
papers

1,770
citations

23
h-index

34
g-index

118
ext. papers

1,947
ext. citations

2.5
avg, IF

4.53
L-index

#	Paper	IF	Citations
114	Variabilities of mesospheric tides and equatorial electrojet strength during major stratospheric warming events. <i>Annales Geophysicae</i> , 2009 , 27, 4125-4130	2	85
113	Duskside enhancement of equatorial zonal electric field response to convection electric fields during the St. Patrick's Day storm on 17 March 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 538-548	2.6	74
112	Planetary wave coupling (58-day waves) in the low-latitude atmosphere-ionosphere system. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008 , 70, 101-122	2	64
111	Seasonal variabilities of low-latitude mesospheric winds. <i>Annales Geophysicae</i> , 1998 , 16, 197-204	2	60
110	Fast and ultrafast Kelvin wave modulations of the equatorial evening F region vertical drift and spread F development. <i>Earth, Planets and Space</i> , 2015 , 67,	2.9	56
109	Mesosphere/lower thermosphere prevailing wind model. <i>Advances in Space Research</i> , 2004 , 34, 1755-1762	2.4	49
108	Stratospheric warming effects on the tropical mesospheric temperature field. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 2309-2337	2	47
107	Interannual variability of diurnal tide in the tropical mesopause region: A signature of the El Nino-Southern Oscillation (ENSO). <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	46
106	The mesospheric quasi-2-day wave over Tirunelveli (8.7°N). <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001 , 63, 975-985	2	46
105	Variabilities of mesospheric tides during sudden stratospheric warming events of 2006 and 2009 and their relationship with ozone and water vapour. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012 , 78-79, 108-115	2	43
104	The geospace response to variable inputs from the lower atmosphere: a review of the progress made by Task Group 4 of CAWSES-II. <i>Progress in Earth and Planetary Science</i> , 2015 , 2,	3.9	36
103	The equatorial counter electrojet: Part of a worldwide current system?. <i>Geophysical Research Letters</i> , 2002 , 29, 51-1-51-4	4.9	36
102	Radar observations of long-term variability of mesosphere and lower thermosphere winds over Tirunelveli (8.7°N, 77.8°E). <i>Journal of Geophysical Research</i> , 2007 , 112,		34
101	On the application of differential phase measurements to study the zonal large scale wave structure (LSWS) in the ionospheric electron content. <i>Radio Science</i> , 2012 , 47, n/a-n/a	1.4	32
100	Long-term variability in the mesospheric tidal winds observed by MF Radar over Tirunelveli (8.7°N, 77.8°E). <i>Geophysical Research Letters</i> , 1999 , 26, 1113-1116	4.9	30
99	Long-term variability of mean winds in the mesosphere and lower thermosphere at low latitudes. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26
98	On the importance of wave-like structures in the occurrence of equatorial plasma bubbles: A case study. <i>Journal of Geophysical Research</i> , 2012 , 117,		26

97	MF radar observations of 6.5-day wave in the equatorial mesosphere and lower thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004 , 66, 507-515	2	24
96	Signatures of quasi-2-day planetary waves in the equatorial electrojet: results from simultaneous observations of mesospheric winds and geomagnetic field variations at low latitudes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001 , 63, 813-821	2	24
95	O I 630.0-nm dayglow in the region of equatorial ionization anomaly: Temporal variability and its causative mechanism. <i>Journal of Geophysical Research</i> , 1992 , 97, 13715		24
94	Long-term tendencies in the mesosphere/lower thermosphere mean winds and tides as observed by medium-frequency radar at Tirunelveli (8.7°N, 77.8°E). <i>Journal of Geophysical Research</i> , 2010 , 115,		23
93	A case study of a mesospheric bore event observed with an all-sky airglow imager at Tirunelveli (8.7°N). <i>Journal of Geophysical Research</i> , 2009 , 114,		23
92	A case study of the mesospheric 6.5-day wave observed by radar systems. <i>Journal of Geophysical Research</i> , 2008 , 113,		23
91	Radar observations of the 3.5-day ultra-fast Kelvin wave in the low-latitude mesopause region. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002 , 64, 1241-1250	2	22
90	Mesosphere and lower thermosphere zonal wind variations over low latitudes: Relation to local stratospheric zonal winds and global circulation anomalies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5913-5927	4.4	21
89	A statistical study of satellite traces and evolution of equatorial spread F. <i>Earth, Planets and Space</i> , 2014 , 66,	2.9	21
88	Effects of prolonged southward interplanetary magnetic field on low-latitude ionospheric electron density. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5764-5776	2.6	19
87	Signatures of equatorial electrojet in the mesospheric partial reflection drifts over magnetic equator. <i>Geophysical Research Letters</i> , 2000 , 27, 943-946	4.9	19
86	First results from ground-based daytime optical investigation of the development of the equatorial ionization anomaly. <i>Annales Geophysicae</i> , 1996 , 14, 238-245	2	19
85	Advanced meteor radar installed at Tirupati: System details and comparison with different radars. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 11,893-11,904	4.4	18
84	On the tropospheric origin of Mesosphere Lower Thermosphere region intraseasonal wind variability. <i>Journal of Geophysical Research</i> , 2007 , 112,		18
83	Structural changes in the tidal components in mesospheric winds as observed by the MF radar during afternoon counter electrojet events. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002 , 64, 1455-1463	2	18
82	Zonal velocity of the equatorial plasma bubbles over Kolhapur, India. <i>Annales Geophysicae</i> , 2013 , 31, 2077-2084	2	17
81	On the occurrence and variability of the terdiurnal tide in the equatorial mesosphere and lower thermosphere and a comparison with the Kyushu-GCM. <i>Journal of Geophysical Research</i> , 2011 , 116,		17
80	QBO influences on the variability of planetary waves in the equatorial mesopause region. <i>Earth, Planets and Space</i> , 2003 , 55, 687-696	2.9	17

79	Co-ordinated thermospheric and F-region measurements from low latitudes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1991 , 53, 515-519		16
78	Two-dimensional high-resolution imaging of the equatorial plasma fountain. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1993 , 55, 1661-1665		16
77	A study on the night time equatorward movement of ionization anomaly using thermospheric airglow imaging technique. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013 , 103, 113-120	2	15
76	Airglow imaging observations of small-scale structures driven by convective instability in the upper mesosphere over Tirunelveli (8.7°N). <i>Journal of Geophysical Research</i> , 2010 , 115,		15
75	Low-latitude mesospheric mean winds observed by Gadanki mesosphere-stratosphere-troposphere (MST) radar and comparison with rocket, High Resolution Doppler Imager (HRDI), and MF radar measurements and HWM93. <i>Journal of Geophysical Research</i> , 2008 , 113,		15
74	First results on daytime mesopause OH rotational temperatures using ground-based photometry from equatorial latitudes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1999 , 61, 1131-1142	2	15
73	Planetary wave-tidal interactions over the equatorial mesosphere-lower thermosphere region and their possible implications for the equatorial electrojet. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		14
72	Radar observations of the diurnal tide in the tropical mesosphere-lower thermosphere region: Longitudinal variabilities. <i>Earth, Planets and Space</i> , 2009 , 61, 513-524	2.9	14
71	Evidence for the Influence of DE3 Tide on the Occurrence of Equatorial Counter-electrojet. <i>Geophysical Research Letters</i> , 2018 , 45, 2145-2150	4.9	13
70	Occurrence of equatorial plasma bubbles over Kolhapur. <i>Advances in Space Research</i> , 2014 , 54, 435-442	2.4	13
69	Mesospheric planetary wave signatures in the equatorial electrojet. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		13
68	Observational evidences on the influences of tropical lower atmospheric ~20 day oscillation on the ionospheric equatorial electrojet. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006 , 68, 523-538 ²		13
67	Mean winds observed with Indian MST radar over tropical mesosphere and comparison with various techniques. <i>Annales Geophysicae</i> , 2001 , 19, 1027-1038	2	13
66	Some new insights of the characteristics of equatorial plasma bubbles obtained from Indian region. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 156, 80-86	2	12
65	Statistical characteristics of high frequency gravity waves observed by OH airglow imaging from Tirunelveli (8.7°N). <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013 , 92, 43-50	2	12
64	On the pre-midnight ascent of F-layer in the June solstice during the deep solar minimum in 2008 over the Indian sector. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014 , 121, 177-187	2	12
63	Longitudinal variability in intraseasonal oscillation in the tropical mesosphere and lower thermosphere region. <i>Journal of Geophysical Research</i> , 2009 , 114,		12
62	Fairweather atmospheric electricity at Antarctica during local summer as observed from Indian station, Maitri. <i>Journal of Earth System Science</i> , 2007 , 116, 179-186	1.8	12

61	Mean winds, tides, and gravity waves during the westward phase of the mesopause semiannual oscillation (MSAO). <i>Journal of Geophysical Research</i> , 2001 , 106, 31817-31824		12
60	Ionospheric response to major storm of 17th March 2015 using multi-instrument data over low latitude station Kolhapur (16.8°N, 74.2°E, 10.6° dip. Lat.). <i>Advances in Space Research</i> , 2018 , 62, 624-637	2.4	12
59	An unusual reduction in the mesospheric semi-diurnal tidal amplitude over Tirunelveli (8.7°N, 77.8°E) prior to the 2011 minor warming and its relationship with stratospheric ozone. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012 , 89, 27-32	2	11
58	Effect of meridional winds and neutral temperatures on the F layer heights over low latitudes. <i>Journal of Geophysical Research</i> , 1993 , 98, 11629		11
57	Quantitative assessment of drivers of recent global temperature variability: an information theoretic approach. <i>Climate Dynamics</i> , 2017 , 49, 3877-3886	4.2	10
56	First observation of interhemispheric asymmetry in the EPBs during the St. Patrick's Day geomagnetic storm of 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6679-6688	2.6	10
55	Nightglow imaging of different types of events, including a mesospheric bore observed on the night of February 15, 2007 from Tirunelveli (8.7°N). <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012 , 78-79, 70-83	2	10
54	Lower stratospheric gravity wave activity over Gadanki (13.5°N, 79.2°E) during the stratospheric sudden warming of 2009: Link with potential vorticity intrusion near Indian sector. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013 , 94, 54-64	2	10
53	Seasonal, inter-annual and solar cycle variability of the quasi two day wave in the low-latitude mesosphere and lower thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 152-153, 20-29	2	10
52	Influence of gravity waves and tides on mesospheric temperature inversion layers: simultaneous Rayleigh lidar and MF radar observations. <i>Annales Geophysicae</i> , 2008 , 26, 3731-3739	2	10
51	Investigation on the mesopause energetics and its possible implications on the equatorial MLTI processes through coordinated daytime airglow and radar measurements. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	10
50	Shrinking equatorial plasma bubbles. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6924-6935		9
49	Simultaneous optical measurements of equatorial plasma bubble (EPB) from Kolhapur (16.8°N, 74.2°E) and Gadanki (13.5°N, 79.2°E). <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014 , 121, 196-205		9
48	First observational evidence for opposite zonal electric fields in equatorial E and F region altitudes during a geomagnetic storm period. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		9
47	Instrumentation for the surface measurements of atmospheric electrical parameters at Maitri, Antarctica: First results. <i>Earth, Planets and Space</i> , 2010 , 62, 545-549	2.9	9
46	Comparative study of MLT mean winds using MF radars located at 16.8°N and 8.7°N. <i>Journal of Earth System Science</i> , 2010 , 119, 461-470	1.8	9
45	Diurnal variation of atmospheric Maxwell current over the low-latitude continental station, Tirunelveli, India (8.7°N, 77.8°E). <i>Earth, Planets and Space</i> , 2007 , 59, 429-435	2.9	9
44	Evidence for direct solar control of the mesopause dynamics through dayglow and radar measurements. <i>Annales Geophysicae</i> , 2004 , 22, 3299-3303	2	9

43	A comparative study of atmospheric Maxwell current and electric field from a low latitude station, Tirunelveli. <i>Earth, Planets and Space</i> , 2003 , 55, 697-703	2.9	9
42	A comparison of ground-based hydroxyl airglow temperatures with SABER/TIMED measurements over 23°N, India. <i>Annales Geophysicae</i> , 2017 , 35, 353-363	2	8
41	Measurement of atmospheric air-earth current density from a tropical station using improvised Wilson's plate antenna. <i>Earth, Planets and Space</i> , 2009 , 61, 919-926	2.9	8
40	First results of fair-weather atmospheric electricity measurements in Northeast India. <i>Journal of Earth System Science</i> , 2010 , 119, 221-228	1.8	8
39	Lower E-region MF radar spaced antenna measurements over magnetic equator. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002 , 64, 1445-1453	2	8
38	First results of OI 630.0 nm dayglow measurements from equatorial latitudes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1991 , 53, 521-528		8
37	Variability of diurnal tide in the MLT region over Tirunelveli (8.7°N), India: Consistency between ground- and space-based observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 2696-2713	4.4	7
36	Direct observational evidence for the merging of equatorial plasma bubbles. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7923-7931	2.6	7
35	Fresh and evolutionary-type field-aligned irregularities generated near sunrise terminator due to overshielding electric fields. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5922-5930	2.6	7
34	Coincident Airglow, VHF Radar, and Ionosonde Observations of Electrified Medium-Scale Traveling Ionospheric Disturbances in the Equatorial Latitudes. <i>Geophysical Research Letters</i> , 2019 , 46, 7173-7181	4.9	6
33	Anomalous diurnal variation of atmospheric potential gradient and air-Earth current density observed at Maitri, Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,593-12,614	4.4	6
32	Study of wave signatures observed in thermospheric airglow imaging over the dip equatorial region. <i>Advances in Space Research</i> , 2018 , 62, 1762-1774	2.4	6
31	An overview of CAWSES-India program with emphasis to equatorial atmospheric coupling processes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012 , 75-76, 98-114	2	6
30	A brief overview on the special issue on CAWSES-India Phase II program. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014 , 121, 141-144	2	6
29	On the linkage of mesospheric planetary waves with those of the lower atmosphere and ionosphere: A case study from Indian low latitudes. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		6
28	First results from the CAWSES-India Tidal Campaign. <i>Annales Geophysicae</i> , 2008 , 26, 2323-2331	2	6
27	A Case Study of Tidal and Planetary Wave Coupling in the Equatorial Atmosphere-Ionosphere System Over India: Preliminary Results 2011 , 177-187		6
26	Airglow Measurements of Gravity Wave Propagation and Damping over Kolhapur (16.5°N, 74.2°E). <i>International Journal of Geophysics</i> , 2014 , 2014, 1-9	2	5

25	Unusual optical observations of OI greenline during a geospace event on 1 February 2008. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		5
24	Intraseasonal oscillation (ISO) in the MLT zonal wind over Kolhapur (16.8°N) and Tirunelveli (8.7°N). <i>Annales Geophysicae</i> , 2012 , 30, 1623-1631	2	5
23	On the electric field control of the MF radar scatterers in the lower E region over the magnetic equator. <i>Geophysical Research Letters</i> , 2007 , 34,	4-9	5
22	Effects of neutral temperature on meridional winds estimated from ionospheric data. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1995 , 57, 1095-1101		5
21	Unseasonal development of post-sunset F-region irregularities over Southeast Asia on 28 July 2014: 2. Forcing from below?. <i>Progress in Earth and Planetary Science</i> , 2018 , 5,	3-9	5
20	Simultaneous measurement of OI 557.7 nm, O ⁺ (0, 1) Atmospheric Band and OH (6, 2) Meinel Band nightglow at Kolhapur (17°N), India. <i>Annales Geophysicae</i> , 2013 , 31, 197-208	2	4
19	High-frequency gravity waves observed in the low-latitude mesosphere-lower thermosphere (MLT) region and their possible relationship to lower-atmospheric convection. <i>Journal of Geophysical Research</i> , 2011 , 116,		3
18	Global electric circuit parameters and their variability observed over Maitri, Antarctica. <i>Journal of the Geological Society of India</i> , 2011 , 78, 199-210	1-3	3
17	Apposite of atmospheric electric parameters with the energy coupling function (Ω) during geomagnetic storms at high latitude. <i>Atmospheric Research</i> , 2009 , 91, 201-205	5-4	3
16	Comment on Initial results from SKiYMET meteor radar at Thumba (8.5°N, 77°E): 1. Comparison of wind measurements with MF spaced antenna radar system By Karanam Kishore Kumar et al.. <i>Radio Science</i> , 2009 , 44, n/a-n/a	1-4	3
15	Temperature variability in the tropical mesosphere during the northern hemisphere winter. <i>Advances in Space Research</i> , 2008 , 41, 1435-1446	2-4	3
14	Lower E-region echoes over the magnetic equator as observed by the MF radar at Tirunelveli (8.7°N, 77.8°E) and their relationship to Ω and Ω . <i>Annales Geophysicae</i> , 2008 , 26, 2459-2470	2	3
13	Comparison of the dynamical response of low latitude middle atmosphere to the major stratospheric warming events in the Northern and Southern Hemispheres. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016 , 146, 205-214	2	3
12	Long term variabilities and tendencies of mesospheric lunar semidiurnal tide over Tirunelveli (8.7°N, 77.8°E). <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 163, 46-53	2	2
11	A Possible Explanation of Interhemispheric Asymmetry of Equatorial Plasma Bubbles in Airglow Images. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027592	2.6	2
10	A high-altitude balloon experiment to probe stratospheric electric fields from low latitudes. <i>Annales Geophysicae</i> , 2017 , 35, 189-201	2	2
9	Equatorial secondary cosmic ray observatory to study space weather and terrestrial events. <i>Advances in Space Research</i> , 2018 , 61, 2555-2568	2-4	2
8	Observations of Plasma Blobs by OI 630 nm Using ASI and Photometer over Kolhapur, India. <i>Earth, Moon and Planets</i> , 2014 , 112, 89-101	0.6	2

7	A comparison study of zonal drift velocities measurements as seen by MF spaced antenna and HF Doppler radar in the Indian dip equatorial mesospheric and lower thermospheric (80–100 km) region. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a	2
6	Observations of OI 557.7 nm nightglow at Kolhapur (17°N), India. <i>Annales Geophysicae</i> , 2011 , 29, 1873-1884	2
5	Variabilities in the thermospheric temperatures in the region of the crest of the equatorial ionization anomaly – case study. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1995 , 57, 695-703	1
4	The study of equatorial plasma bubble during January to April 2012 over Kolhapur (India). <i>Annals of Geophysics</i> , 2016 , 59,	1.1 1
3	First results of convectively generated long-period Kelvin waves in the low-latitude mesosphere during Indian summer monsoon. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010 , 72, 1204-1217	0
2	Observation of mesospheric wave using collocated OH airglow temperature and radar wind measurements over Indian low latitude. <i>Advances in Space Research</i> , 2019 , 64, 1865-1875	2.4
1	A comparison of optically measured daytime OH temperatures over the tropics during solar maximum and minimum periods. <i>Earth, Planets and Space</i> , 2010 , 62, 647-653	2.9