

# Sarangam Vijaya Bhaskara Rao

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

1,520  
citations

279701

23  
h-index

377752

34  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precipitation climatology over India: validation with observations and reanalysis datasets and spatial trends. <i>Climate Dynamics</i> , 2016, 46, 541-556.	1.7	117
2	Diurnal variability of stability indices observed using radiosonde observations over a tropical station: Comparison with microwave radiometer measurements. <i>Atmospheric Research</i> , 2013, 124, 21-33.	1.8	61
3	Northeast monsoon rainfall variability over south peninsular India and its teleconnections. <i>Theoretical and Applied Climatology</i> , 2012, 108, 73-83.	1.3	53
4	Differences in Atmospheric Boundary-Layer Characteristics Between Wet and Dry Episodes of the Indian Summer Monsoon. <i>Boundary-Layer Meteorology</i> , 2014, 153, 217-236.	1.2	50
5	MST radar and radiosonde observations of inertia-gravity wave climatology over tropical stations: Source mechanisms. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
6	Diurnal and seasonal variability of turbulence parameters observed with Indian mesosphere-stratosphere-troposphere radar. <i>Radio Science</i> , 2001, 36, 1439-1457.	0.8	46
7	Morphology of the vertical structure of precipitation over India and adjoining oceans based on long-term measurements of TRMM PR. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8433-8449.	1.2	45
8	Validation of ICON-MIGHTI Thermospheric Wind Observations: 2. Green-Line Comparisons to Specular Meteor Radars. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028947.	0.8	45
9	Evidence for tropospheric wind shear excitation of high-phase-speed gravity waves reaching the mesosphere using the ray-tracing technique. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2709-2721.	1.9	44
10	Analysis of variations of cloud and aerosol properties associated with active and break spells of Indian summer monsoon using MODIS data. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	43
11	Effects of agriculture crop residue burning on aerosol properties and long-range transport over northern India: A study using satellite data and model simulations. <i>Atmospheric Research</i> , 2016, 178-179, 155-163.	1.8	43
12	Turbulence characteristics over tropical station Gadanki (13.5°N, 79.2°E) estimated using high-resolution GPS radiosonde data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	39
13	Long-term variability of the low latitude mesospheric SAO and QBO and their relation with stratospheric QBO. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	37
14	Mean thermal structure of the low-latitude middle atmosphere studied using Gadanki Rayleigh lidar, Rocket, and SABER/TIMED observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	35
15	Characteristics of the Tropical Easterly Jet: Long-term trends and their features during active and break monsoon phases. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	35
16	Gravity wave characteristics observed over a tropical station using high-resolution GPS radiosonde soundings. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	35
17	Long-term trend analysis and climatology of tropical cirrus clouds using 16 years of lidar data set over Southern India. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13833-13848.	1.9	31
18	Differences in the Climatological Characteristics of Precipitation between Active and Break Spells of the Indian Summer Monsoon. <i>Journal of Climate</i> , 2016, 29, 7797-7814.	1.2	31

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19	Intriguing Aspects of the Monsoon Low-Level Jet over Peninsular India Revealed by High-Resolution GPS Radiosonde Observations. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 1413-1423.	0.6	28
20	Representation of monsoon intraseasonal oscillations in regional climate model: sensitivity to convective physics. <i>Climate Dynamics</i> , 2016, 47, 895-917.	1.7	27
21	Role of Coarse and Fine Mode Aerosols in MODIS AOD Retrieval: a case study over southern India. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 907-917.	1.2	26
22	Soil Moisture Variability in India: Relationship of Land Surface and Atmosphere Fields Using Maximum Covariance Analysis. <i>Remote Sensing</i> , 2019, 11, 335.	1.8	26
23	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.	1.2	24
24	Climatology of low-latitude mesospheric echo characteristics observed by Indian mesosphere, stratosphere, and troposphere radar. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	23
25	On increasing monsoon rainstorms over India. <i>Natural Hazards</i> , 2017, 85, 1743-1757.	1.6	23
26	Ionospheric variations over Indian low latitudes close to the equator and comparison with IRI-2012. <i>Annales Geophysicae</i> , 2015, 33, 997-1006.	0.6	22
27	Role of vertical structure of cloud microphysical properties on cloud radiative forcing over the Asian monsoon region. <i>Climate Dynamics</i> , 2015, 45, 3331-3345.	1.7	22
28	Effect of Southern Hemisphere Sudden Stratospheric Warmings on Antarctica Mesospheric Tides: First Observational Study. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2127-2140.	0.8	21
29	Some new aspects of low-latitude region QP echoes revealed by Gadanki radar: Are they due to Kelvin-Helmholtz instability or gravity waves?. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	20
30	Characteristics of cirrus clouds and tropical tropopause layer: Seasonal variation and long-term trends. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 121, 248-256.	0.6	20
31	Combined effect of MJO, ENSO and IOD on the intraseasonal variability of northeast monsoon rainfall over south peninsular India. <i>Climate Dynamics</i> , 2018, 51, 3865-3882.	1.7	20
32	Interannual Variability of Atmospheric Gravity Waves in the Martian Thermosphere: Effects of the 2018 Planet-Encircling Dust Event. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006649.	1.5	19
33	Interaction of a Low-Pressure System, an Offshore Trough, and Mid-Tropospheric Dry Air Intrusion: The Kerala Flood of August 2018. <i>Atmosphere</i> , 2020, 11, 740.	1.0	19
34	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, .	3.3	18
35	Aerosol climatology over an urban site, Tirupati (India) derived from columnar and surface measurements: First time results obtained from a 30-day campaign. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 1727-1738.	0.6	17
36	A comprehensive investigation on afternoon transition of the atmospheric boundary layer over a tropical rural site. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7605-7617.	1.9	15

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37	Low-latitude mesospheric vertical winds observed using VHF radar. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	14
38	First simultaneous observations of $F_3$ layer and E $\tilde{A}$ –B drift in Indian sector and modeling. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3527-3539.	0.8	13
39	On the nature of low-latitude $E_s$ influencing the genesis of equatorial plasma bubble. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 524-532.	0.8	13
40	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.	0.6	13
41	Quasi-2-Day Wave in Low-Latitude Atmospheric Winds as Viewed From the Ground and Space During January–March, 2020. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093466.	1.5	13
42	Dominance of chemical heating over dynamics in causing a few large mesospheric inversion layer events during January–February 2011. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6751-6765.	0.8	12
43	Low-latitude $E_s$ capable of controlling the onset of equatorial spread $F_2$ . <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1170-1179.	0.8	11
44	Impact of Misrepresentation of Freezing-Level Height by the TRMM Algorithm on Shallow Rain Statistics over India and Adjoining Oceans. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 2001-2008.	0.6	11
45	Lidar signal denoising methods- application to NARL Rayleigh lidar. <i>Journal of Optics (India)</i> , 2015, 44, 164-171.	0.8	11
46	Magnetically controlled density structures in the topside layer of the Martian ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5619-5629.	0.8	11
47	Performance Optimization of Operational WRF Model Configured for Indian Monsoon Region. <i>Earth Systems and Environment</i> , 2019, 3, 231-239.	3.0	11
48	Atmospheric circulation during active and break phases of Indian summer monsoon: A study using MST radar at Gadanki (13.5 $^{\circ}$ N, 79.2 $^{\circ}$ E). <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	10
49	Planetary wave-gravity wave interactions during mesospheric inversion layer events. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4503-4515.	0.8	10
50	Dust aerosol characterization and transport features based on combined ground-based, satellite and model-simulated data. <i>Aeolian Research</i> , 2016, 21, 75-85.	1.1	10
51	Onset of Indian summer monsoon over Gadanki (13.5 $^{\circ}$ N, 79.2 $^{\circ}$ E): Study using lower atmospheric wind profiler. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	9
52	Meteor Radar Estimations of Gravity Wave Momentum Fluxes: Evaluation Using Simulations and Observations Over Three Tropical Locations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7184-7201.	0.8	8
53	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, .	3.3	7
54	Investigation of convectively generated gravity wave characteristics and generation mechanisms during the passage of thunderstorm and squall line over Gadanki (13.5 $^{\circ}$ N, 79.2 $^{\circ}$ E). <i>Annales Geophysicae</i> , 2014, 32, 57-68.	0.6	7

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55	Some new aspects of the transient ionization layer of comet Siding Spring origin in the Martian upper atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3592-3602.	0.8	7
56	Gravity Wave Source Spectra Appropriation for Mesosphere Lower Thermosphere Using Meteor Radar Observations and GROGRAT Model Simulations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089390.	1.5	7
57	Morphology and seasonal characteristics of low latitude E-region quasiperiodic echoes studied using large database of Gadanki radar observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	6
58	Unusual behavior of the low latitude ionosphere in the Indian sector during the deep solar minimum in 2009. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6830-6843.	0.8	6
59	Magnetically Controlled Density Structures in the Martian Ionosphere: Are they Stably Recurring?. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5790-5806.	0.8	6
60	Validation of satellite and model aerosol optical depth and precipitable water vapour observations with AERONET data over Pune, India. <i>International Journal of Remote Sensing</i> , 2018, 39, 7643-7663.	1.3	6
61	Causative mechanisms for the occurrence of a triple layered mesospheric inversion event over low latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3930-3943.	0.8	5
62	An objective criterion for the identification of breaks in Indian summer monsoon rainfall. <i>Atmospheric Science Letters</i> , 2015, 16, 193-198.	0.8	5
63	Influence of solar cycle and chemistry on tropical (10°N–15°N) mesopause variabilities. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4038-4051.	0.8	5
64	Simulation of mid-latitude winter storms over the North Atlantic Ocean: impact of boundary layer parameterization schemes. <i>Climate Dynamics</i> , 2019, 53, 6785-6814.	1.7	5
65	Vertical Variation of Madden-Julian Oscillations in the Normal Monsoon Season as Revealed Through MST Radar Wind Data. <i>Meteorology and Atmospheric Physics</i> , 2000, 73, 55-59.	0.9	4
66	HF radio signal fading and atmospheric radio noise measurements at low latitudes. <i>Radio Science</i> , 2002, 37, 16-1-16-7.	0.8	4
67	Short period gravity wave momentum fluxes observed in the tropical troposphere, stratosphere and mesosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 105-106, 1-7.	0.6	4
68	Quiet time short period and day-to-day variations in E- and B-drift studied using 150 km radar echoes from Gadanki. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3053-3065.	0.8	4
69	Source spectra of the gravity waves obtained from momentum flux and kinetic energy over Indian region: Comparison between observations and model results. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 154, 1-9.	0.6	4
70	Enhanced Ionization in Magnetic Anomaly Regions of the Martian Lower Ionosphere Associated With Dust Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3007.	0.8	4
71	Stratospheric Quasi Biennial Oscillation Modulations of Migrating Diurnal Tide in the Mesosphere and Lower Thermosphere Over the Low and Equatorial Latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028970.	0.8	4
72	Low latitude quasi-periodic echoes studied using a large database of Gadanki radar observations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	3

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73	Anomalous Wind Circulation Observed during 1997/98 El Niño Using Indian MST Radar. Journal of Applied Meteorology and Climatology, 2007, 46, 112-119.	0.6	2
74	Isolated High-Density Structures in Magnetic Anomaly Regions of the Martian Lower Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 6296-6304.	0.8	2
75	Demonstration of the Temporal Evolution of Tropical Cyclone "Phailin" Using Gray-Zone Simulations and Decadal Variability of Cyclones over the Bay of Bengal in a Warming Climate. Oceans, 2021, 2, 648-674.	0.6	2
76	Acoustic sounder application: performance of three line-of-sight microwave links situated over hilly terrains in Southern India. International Journal of Remote Sensing, 1994, 15, 283-292.	1.3	1
77	A chemical perspective of day and night tropical (10°N–15°N) mesospheric inversion layers. Journal of Geophysical Research: Space Physics, 2017, 122, 3650-3664.	0.8	1
78	Disrupted Stratospheric QBO Signatures in the Diurnal Tides Over the Low-Latitude MLT Region. Geophysical Research Letters, 2021, 48, e2021GL093022.	1.5	1
79	Sensitivity to initial conditions on the simulation of extratropical cyclone "Gong" formed over North Atlantic. Journal of Earth System Science, 2021, 130, 1.	0.6	0
80	LOW-LATITUDE E-REGION QUASI-PERIODIC ECHOES STUDIED USING LONG-TERM RADAR OBSERVATIONS OVER GADANKI. , 2009, , 245-261.		0
81	Meteor radar estimation of Gravity Wave Variances and Momentum Fluxes in the mesosphere lower thermosphere: Evaluation of different methods using simulations and observations over three tropical locations. , 2019, , .		0
82	Climatological Changes in Soil Moisture during the 21st Century over the Indian Region Using CMIP5 and Satellite Observations. Remote Sensing, 2022, 14, 2108.	1.8	0