

# V, Sivakumar

## List of Publications by Year in descending order

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99  
papers

1,599  
citations

331670

21  
h-index

361022

35  
g-index

104  
all docs

104  
docs citations

104  
times ranked

1609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of k-means and hierarchical clustering techniques for analysis of air pollution: A review (1980â€“2019). Atmospheric Pollution Research, 2020, 11, 40-56.	3.8	263
2	Aerosol climatology and discrimination of aerosol types retrieved from MODIS, MISR and OMI over Durban (29.88Â°S, 31.02Â°E), South Africa. Atmospheric Environment, 2015, 117, 9-18.	4.1	68
3	Global (50Â°Sâ€“50Â°N) distribution of water vapor observed by COSMIC GPS RO: Comparison with GPS radiosonde, NCEP, ERA-Interim, and JRA-25 reanalysis data sets. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1849-1860.	1.6	65
4	Inferring wavelength dependence of AOD and Å‹ngstrÅ‹m exponent over a sub-tropical station in South Africa using AERONET data: Influence of meteorology, long-range transport and curvature effect. Science of the Total Environment, 2013, 461-462, 397-408.	8.0	64
5	Long-term (2003â€“2013) climatological trends and variations in aerosol optical parameters retrieved from MODIS over three stations in South Africa. Atmospheric Environment, 2014, 95, 400-408.	4.1	60
6	Analysis of Diurnal and Seasonal Behavior of Surface Ozone and Its Precursors (NOx) at a Semi-Arid Rural Site in Southern India. Aerosol and Air Quality Research, 2012, 12, 1081-1094.	2.1	60
7	Aerosol climatology over South Africa based on 10 years of Multiangle Imaging Spectroradiometer (MISR) data. Journal of Geophysical Research, 2011, 116, .	3.3	47
8	Global temperature estimates in the troposphere and stratosphere: a validation study of COSMIC/FORMOSAT-3 measurements. Atmospheric Chemistry and Physics, 2009, 9, 897-908.	4.9	44
9	Statistical characteristics of VHF radar observations of low latitude E-region field-aligned irregularities over Gadanki. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1615-1626.	1.6	37
10	Direct radiative forcing of urban aerosols over Pretoria (25.75Â°S, 28.28Â°E) using AERONET Sunphotometer data: First scientific results and environmental impact. Journal of Environmental Sciences, 2014, 26, 2459-2474.	6.1	37
11	Temporal characteristics of columnar aerosol optical properties and radiative forcing (2011â€“2015) measured at AERONETâ€™s Pretoria_CSIR_DPSS site in South Africa. Atmospheric Environment, 2017, 165, 274-289.	4.1	36
12	Identification and Classification of Different Aerosol Types over a Subtropical Rural Site in Mpumalanga, South Africa: Seasonal Variations as Retrieved from the AERONET Sunphotometer. Aerosol and Air Quality Research, 2014, 14, 108-123.	2.1	35
13	Altitude profiles of temperature from 4 to 80 km over the tropics from MST radar and lidar. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 1327-1337.	1.6	34
14	Rayleigh lidar observation of a warm stratopause over a tropical site, Gadanki (13.5Â° N; 79.2Â° E). Atmospheric Chemistry and Physics, 2004, 4, 1989-1996.	4.9	34
15	Global distribution of aerosol optical depth in 2015 using CALIPSO level 3 data. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 173, 150-159.	1.6	28
16	Lidar observations of middle atmospheric gravity wave activity over a low-latitude site (Gadanki, 13.5Â° Tj ETQq0 Q 0 rgBT /Qverlock 10	1.6	27
17	Intercomparison and assessment of long-term (2004â€“2013) multiple satellite aerosol products over two contrasting sites in South Africa. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 148, 82-95.	1.6	27
18	Diurnal and seasonal variability of TKE dissipation rate in the ABL over a tropical station using UHF wind profiler. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 419-430.	1.6	25

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19	Study on the impact of sudden stratosphere warming in the upper mesosphere-lower thermosphere regions using satellite and HF radar measurements. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3397-3404.	4.9	24
20	Lidar observed characteristics of the tropical cirrus clouds. <i>Radio Science</i> , 2003, 38, n/a-n/a.	1.6	23
21	Variability and trend in ozone over the southern tropics and subtropics. <i>Annales Geophysicae</i> , 2018, 36, 381-404.	1.6	23
22	Variability in aerosol optical properties and radiative forcing over Gorongosa (18.97oS, 34.35oE) in Mozambique. <i>Meteorology and Atmospheric Physics</i> , 2015, 127, 217-228.	2.0	22
23	Aerosol-Cloud-Precipitation Interactions over Major Cities in South Africa: Impact on Regional Environment and Climate Change. <i>Aerosol and Air Quality Research</i> , 2016, 16, 195-211.	2.1	20
24	Simultaneous MST radar and radiosonde measurements at Gadanki (13.5°N, 79.2°E) 2. Determination of various atmospheric turbulence parameters. <i>Radio Science</i> , 2003, 38, n/a-n/a.	1.6	18
25	Tropopause Characteristics and Variability from 11 yr of SHADOZ Observations in the Southern Tropics and Subtropics. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 1403-1416.	1.5	17
26	Mineral dust aerosol distributions, its direct and semi-direct effects over South Africa based on regional climate model simulation. <i>Journal of Arid Environments</i> , 2015, 114, 22-40.	2.4	17
27	Long-range transport of SO <sub>2</sub> over South Africa: A case study of the Calbuco volcanic eruption in April 2015. <i>Atmospheric Environment</i> , 2018, 185, 78-90.	4.1	17
28	Tropopause characteristics over a southern subtropical site, Reunion Island (21°S, 55°E): Using radiosonde-ozonesonde data. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	16
29	Temperature variability and trends in the UT-LS over a subtropical site: Reunion (20.8° S, 55.5° E). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8563-8574.	4.9	16
30	Rayleigh LIDAR and satellite (HALOE, SABER, CHAMP and COSMIC) measurements of stratosphere-mesosphere temperature over a southern sub-tropical site, Reunion (20.8° S; 55.5° E): climatology and comparison study. <i>Annales Geophysicae</i> , 2011, 29, 649-662.	1.6	16
31	Sunburn Risk Among Children and Outdoor Workers in South Africa and Reunion Island Coastal Sites. <i>Photochemistry and Photobiology</i> , 2013, 89, 1226-1233.	2.5	15
32	Simulation of biomass burning aerosols mass distributions and their direct and semi-direct effects over South Africa using a regional climate model. <i>Meteorology and Atmospheric Physics</i> , 2014, 125, 177-195.	2.0	15
33	Characterisation of aerosol constituents from wildfires using satellites and model data: a case study in Knysna, South Africa. <i>International Journal of Remote Sensing</i> , 2019, 40, 4743-4761.	2.9	15
34	Investigating the Long-Range Transport of Aerosol Plumes Following the Amazon Fires (August 2019): A Multi-Instrumental Approach from Ground-Based and Satellite Observations. <i>Remote Sensing</i> , 2020, 12, 3846.	4.0	14
35	Multi-year analysis of aerosol optical properties and implications to radiative forcing over urban Pretoria, South Africa. <i>Theoretical and Applied Climatology</i> , 2020, 141, 343-357.	2.8	14
36	Shear instability as a source of the daytime quasi-periodic radar echoes observed by the Gadanki VHF radar. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	13

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37	A comprehensive study on middle atmospheric thermal structure over a tropic and sub-tropic stations. <i>Advances in Space Research</i> , 2006, 37, 2278-2283.	2.6	13
38	Stratospheric ozone climatology and variability over a southern subtropical site: Reunion Island (21° S). <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006, 68, 901-910.	1.6	13
39	Long-term trends observed in the middle atmosphere temperatures using ground based LIDARs and satellite borne measurements. <i>Annales Geophysicae</i> , 2014, 32, 301-317.	1.6	12
40	Statistical analysis of the long-range transport of the 2015 Calbuco volcanic plume from ground-based and space-borne observations. <i>Annales Geophysicae</i> , 2020, 38, 395-420.	1.6	12
41	Rayleigh lidar observations of planetary waves in the middle atmosphere over Gadanki (13.5° N, 79.2° E). <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006, 68, 901-910.	1.6	11
42	Ozone Variability and Trend Estimates from 20-Years of Ground-Based and Satellite Observations at Irene Station, South Africa. <i>Atmosphere</i> , 2020, 11, 1216.	2.3	11
43	Comparison of total column ozone obtained by the IASI-MetOp satellite with ground-based and OMI satellite observations in the southern tropics and subtropics. <i>Annales Geophysicae</i> , 2015, 33, 1135-1146.	1.6	11
44	Evaluation of Regional Climatic Model Simulated Aerosol Optical Properties over South Africa Using Ground-Based and Satellite Observations. <i>ISRN Atmospheric Sciences</i> , 2013, 2013, 1-17.	0.4	10
45	MATLAB modelling and examination of the effect of heat capacity of basin and glass cover on performance of solar still by thermal models. <i>International Journal of Ambient Energy</i> , 2018, 39, 1-10.	2.5	10
46	Study on Temporal Variations of Surface Temperature and Rainfall at Conakry Airport, Guinea: 1960–2016. <i>Climate</i> , 2019, 7, 93.	2.8	10
47	A Literature Review of the Impacts of Heat Stress on Human Health across Africa. <i>Sustainability</i> , 2021, 13, 5312.	3.2	9
48	Lidar observations of sodium layer over low latitude, Gadanki (13.5° N, 79.2° E): seasonal and nocturnal variations. <i>Annales Geophysicae</i> , 2009, 27, 3811-3823.	1.6	9
49	Measurements of atmospheric turbulence with the dual-beamwidth method using the MST radar at Gadanki, India. <i>Annales Geophysicae</i> , 2004, 22, 3291-3297.	1.6	8
50	A superposed epoch study of the effects of solar wind stream interface events on the upper mesospheric and lower thermospheric temperature. <i>Advances in Space Research</i> , 2014, 54, 1732-1742.	2.6	7
51	Investigation of various aerosols over different locations in South Africa using satellite, model simulations and LIDAR. <i>Meteorological Applications</i> , 2019, 26, 275-287.	2.1	7
52	Ship-Borne Measurements of Columnar and Surface Aerosol Loading over the Bay of Bengal during W-ICARB Campaign: Role of Airmass Transport, Latitudinal and Longitudinal Gradients. <i>Aerosol and Air Quality Research</i> , 2013, 13, 818-837.	2.1	7
53	Characteristics and Long-Term Trends of Heat Stress for South Africa. <i>Sustainability</i> , 2021, 13, 13249.	3.2	7
54	Long-range transport of volcanic aerosols over South Africa: a case study of the Calbuco volcanic eruption in Chile during April 2015. <i>Southern African Geographical Journal</i> , 2018, 100, 349-363.	1.8	6

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55	Qualitative Study on the Observations of Emissions, Transport, and the Influence of Climatic Factors from Sugarcane Burning: A South African Perspective. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7672.	2.6	6
56	Ozone climatology and variability over Irene, South Africa determined by ground based and satellite observations. Part 1: Vertical variations in the troposphere and stratosphere. <i>Atmosfera</i> , 2017, 30, 337-353.	0.8	6
57	System description of the mobile LIDAR of the CSIR, South Africa. <i>South African Journal of Science</i> , 2010, 105, .	0.7	5
58	Observation of Clouds Using the CSIR Transportable LIDAR: A Case Study over Durban, South Africa. <i>Advances in Meteorology</i> , 2016, 2016, 1-9.	1.6	5
59	Long-term temporal and spatial analysis of SO <sub>2</sub> over Gauteng and Mpumalanga monitoring sites of South Africa. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 191, 105044.	1.6	5
60	Ground-based in situ measurements of near-surface aerosol mass concentration over Anantapur: Heterogeneity in source impacts. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 235-246.	4.3	4
61	Observational evidence of planetary wave influences on ozone enhancements over upper troposphere North Africa. <i>Atmospheric Research</i> , 2013, 129-130, 1-19.	4.1	4
62	Simulation of anthropogenic aerosols mass distributions and analysing their direct and semi-direct effects over South Africa using RegCM4. <i>International Journal of Climatology</i> , 2015, 35, 3515-3539.	3.5	4
63	Influence of aerosol-cloud interaction on austral summer precipitation over Southern Africa during ENSO events. <i>Atmospheric Research</i> , 2018, 202, 1-9.	4.1	4
64	Stratosphere-Troposphere Exchange and O <sub>3</sub> Variability in the Lower Stratosphere and Upper Troposphere over the Irene SHADOZ Site, South Africa. <i>Atmosphere</i> , 2020, 11, 586.	2.3	4
65	The Influence of Meteorology and Air Transport on CO <sub>2</sub> Atmospheric Distribution over South Africa. <i>Atmosphere</i> , 2020, 11, 287.	2.3	4
66	Investigating diffuse irradiance variation under different cloud conditions in Durban, using k-means clustering. <i>Journal of Energy in Southern Africa</i> , 2019, 30, 22-32.	0.8	4
67	Ozone climatology and its variability from ground based and satellite observations over Irene, South Africa (25.5° S; 28.1° E) – Part 2: Total column ozone variations. <i>Atmosfera</i> , 2018, 31, 11-24.	0.8	4
68	Evidence of Polar Mesosphere Summer Echoes Observed by SuperDARN SANA HF Radar in Antarctica. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2015, 26, 431.	0.6	4
69	A Case Study of Energy Deposition and Absorption by Magnetic Cloud Electrons and Protons over the High Latitude Stations: Effects on the Mesosphere and Lower Thermosphere. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2014, 25, 219.	0.6	3
70	Simulation of bulk aerosol direct radiative effects and its climatic feedbacks in South Africa using RegCM4. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 142, 1-19.	1.6	3
71	Statistical analysis of the mesospheric inversion layers over two symmetrical tropical sites: Réunion (20.8° S, 55.5° E) and Mauna Loa (19.5° N, 155.6° W). <i>Annales Geophysicae</i> , 2017, 35, 1177-1194.	1.6	3
72	Study on blazing wildfires at the outeniqua pass in South Africa during the october/november 2018 period. <i>Remote Sensing Applications: Society and Environment</i> , 2021, 21, 100464.	1.5	3

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73	MEAN OZONE AND WATER VAPOR HEIGHT PROFILES FOR SOUTHERN HEMISPHERE REGION USING RADIOSONDE/OZONESONDE AND HALOE SATELITE DATA. , 0, , 263-270.		3
74	Quality control of solar radiation data within the South African Weather Service solar radiometric network. Journal of Energy in Southern Africa, 2019, 30, 51-63.	0.8	3
75	Weather pattern associated with climate change during Canadian Arctic wildfires: A case study in July 2019. Remote Sensing Applications: Society and Environment, 2022, 25, 100698.	1.5	3
76	Simultaneous MST radar and radiosonde measurements at Gadanki (13.5°N, 79.2°E) 1. Causative mechanism and characteristics of radar backscatterers at VHF. Radio Science, 2003, 38, n/a-n/a.	1.6	2
77	INFERENCES OF $\hat{\alpha}$ -STABLE DISTRIBUTION OF THE UNDERLYING NOISE COMPONENTS IN GEODETIC DATA. South African Journal of Geology, 2011, 114, 541-548.	1.2	2
78	Observations of a middle atmosphere thermal structure over Durban using a ground-based Rayleigh LIDAR and satellite data. South African Journal of Science, 2012, 108, .	0.7	2
79	Aerosol radiative forcing from spectral solar attenuation measurements due to aerosol loading using AERONET over pretoria in South Africa. , 2013, , .		2
80	A comparison of outer electron radiation belt dropouts during solar wind stream interface and magnetic cloud driven storms. Journal of Earth System Science, 2017, 126, 1.	1.3	2
81	SO <sub>2</sub> seasonal variation and assessment of Ozone Monitoring Instrument (OMI) measurements at Sharpeville (27.86°E; 26.68°S) a South African ground-based station. International Journal of Remote Sensing, 2017, 38, 6680-6696.	2.9	2
82	Analysis of Austral Summer and Winter Rainfall Variability in South Africa Using Ensemble Empirical Mode Decomposition. IFAC-PapersOnLine, 2018, 51, 132-137.	0.9	2
83	De-noising LiDAR signal using wavelet technique. Proceedings of SPIE, 2007, 6681, 192.	0.8	1
84	Rayleigh Lidar investigation of stratospheric sudden warming over a low latitude station, Gadanki (13.5°N; 79.2°E): a statistical study. , 2007, , .		1
85	Retrieval of atmospheric boundary layer height by CSIRNLC mobile lidar, pretoria (25.5°S; 28.1°E) 1 0.784314 rgBT /Overl		1
86	Latitudinal variations of aerosols in the MABL over Bay of Bengal. , 2012, , .		1
87	Season Specific Daily Diffuse Solar Radiation Fraction Parameterizations for India. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.8	1
88	Effect of Heat Capacity of Basin Material and Glass Cover on Distillate Yield of Single Slope Passive Solar still – A Theoretical Investigation. Applied Mechanics and Materials, 0, 787, 43-47.	0.2	1
89	Study on carbon dioxide atmospheric distribution over the Southwest Indian Ocean islands using satellite data: Part 1 –“ Climatology and seasonal results. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 179, 569-579.	1.6	1
90	Study on carbon dioxide atmospheric distribution over the Southwest Indian Ocean islands using satellite data: Part 2 –“the influence of meteorology and air transportation. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 179, 580-590.	1.6	1

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91	PMSE long term observations using SuperDARN SANA HF radar measurements. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 371-383.	0.6	1
92	CSIR-NLC mobile LIDAR &#x2014; first scientific result. , 2009, , .		0
93	CSIR-NLC mobile LIDAR for atmosphere remote sensing. , 2009, , .		0
94	Vicarious calibration campaign in Argentina for radiometric calibration of a multispectral imager onboard Sumbandila Satellite. , 2011, , .		0
95	Extracting gravity wave parameters during the September 2002 Southern Hemisphere major sudden stratospheric warming using a SANA HF imaging riometer. Annales Geophysicae, 2013, 31, 1709-1719.	1.6	0
96	Refurbishment of durban fixed ukzn lidar for atmospheric studies â€“ current status. EPJ Web of Conferences, 2018, 176, 05056.	0.3	0
97	Surface Temperature Trend Estimation over 12 Sites in Guinea Using 57 Years of Ground-Based Data. Climate, 2020, 8, 68.	2.8	0
98	The first national scale spatial and temporal analysis of surface CO <sub>2</sub> over South Africa utilising satellite retrievals. Southern African Geographical Journal, 2022, 104, 137-154.	1.8	0
99	Investigation on particulate matter 2.5 (PM <sub>2.5</sub> ) for the past two decades in the central part of Iran, using background meteorological parameters. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	0