

Sl. No.	Authors	Title of Paper	Name of Journal	Volume (if applicable)	Number (if applicable)	Page Numbers	Year of Publication	DOI (if available)
1.	Satheesh, S. K.; Krishnamoorthy, K.	Future Earth: science for the people	CURRENT SCIENCE	113	9	1639-1640	2017	
2.	Govardhan, Gaurav; Satheesh, S.K; Nanjundiah, Ravi; Krishnamoorthy K., and S.S. Babu	Possible climatic implications of high-altitude black carbon emissions	ATMOSPHERIC CHEMISTRY AND PHYSICS	17	15	9623-9644	2017	
3.	Anand, N.; Satheesh, S. K.; Moorthy, K. Krishna	Dependence of atmospheric refractive index structure parameter (C-n(2)) on the residence time and vertical distribution of aerosols	OPTICS LETTERS	42	14	2714-2717	2017	
4.	Anil V Kulkarni, Shailesh Nayak, S Pratibha	Variability of Glaciers and Snow Cover Book: Observed Climate Variability and Change over the Indian Region”	Springer Singapore			193-219	2017	
5.	Gulab Singh, Ashutosh Verma, Sanjeev Kumar, Ashwagosh Ganju, Yoshio Yamaguchi, Anil V Kulkarni	Snowpack Density Retrieval Using Fully Polarimetric TerraSAR-X Data in the Himalayas	IEEE Transactions on Geoscience and Remote Sensing	PP	99		2017	10.1109/TGRS.2017.2725979, 2017
6.	KK Singh, HS Negi, A Kumar, AV Kulkarni, SK Dewali, P Datt, A Ganju, S Kumar	Estimation of snow accumulation on Samudra Tapu glacier, Western Himalaya using airborne ground penetrating radar	Current Science	112	6	1208-1218	2017	
7.	Prateek Gantayat, Anil V Kulkarni, J Srinivasan, Maurice J	Numerical modelling of past retreat and future	Annals of Glaciology			01-Sep	2017	10.1017/aog.20

	Schmeits	evolution of Chhota Shigri glacier in Western Indian Himalaya						17.21, 2017
8.	Rupal M Brahmabhatt, IM Bahuguna, BP Rathore, Anil V Kulkarni, Rajesh D Shah, AS Rajawat, Jeffrey S Kargel,	Significance of glacio-morphological factors in glacier retreat: a case study of part of Chenab basin, Himalaya	Journal of Mountain Science	14(1)		128-141	2017	
9.	Sayli Atul Tawde, Anil V Kulkarni, Govindasamy Bala	An estimate of glacier mass balance for the Chandra basin, western Himalaya, for the period 1984–2012	Annals of Glaciology				2017	10.1017/aog.2017.18, 2017
10.	Vinay Kumar Gaddam, Anil V Kulkarni, Anil Kumar Gupta,	Reconstruction of Specific mass balance for glaciers in Western Himalaya using Seasonal Sensitivity Characteristic (s)	Journal of Earth System Science, Springer India	126			2017	
11.	Shashank Bhushan , Tajdarul H. Syed , Anil V. Kulkarni, Prateek Gantayat, and Vibhor Agarwal	Quantifying Changes in the Gangotri Glacier of Central Himalaya: Evidence for Increasing Mass loss and decreasing velocity	IEEE journal of selected topics in applied earth observations and remote sensing	10	Jan-00		2017	
12.	G Vinay Kumar, Anil V Kulkarni, Anil Kumar Gupta, Parmanand Sharma	Mass balance estimation using geodetic method for glaciers in Baspa basin, Western Himalaya	CURRENT SCIENCE	113	3	486-492	2017	
13.	A K Seshadri and S Chakravarty	Dynamics versus optimization in nonconvex	Current Science	112		220-222	2017	

		environmental economics problems with a single welfare function						
14.	A K Seshadri	Origin of path-independence between cumulative CO ₂ emissions and global warming	Climate Dynamics			Jan-19	2017	10.1007/s00382-016-3519-3
15.	Sharma, J., S. Upgupta, M. Jayaraman, R. K. Chaturvedi, G. Bala and N.H. Ravindranath	Assessment of inherent vulnerability of forests at landscape level: a case study from Western Ghats in India	Mitigation and Adaptation Strategies for Global Change	22	1	29-44	2017	
16.	Rajiv K Chaturvedi and Mitavachan Hiremath	An alternate energy future for India; its implications for India's climate pledge and the global goal of limiting warming to safe levels	Current Science	113		1028-1031	2017	
17.	Sharma J, Upgupta S, Jayaraman M, Rajiv K Chaturvedi, Bala G, Ravindranath NH	Vulnerability of forests in India: a national scale assessment	Environmental Management	60		544-553	2017	
18.	Asbjørn Aaheim, Anton Orlov, Rajiv K Chaturvedi, Priya Joshi, Anitha Sagadevan, N.H. Ravindranath	Lost benefits and carbon uptake by protection of Indian plantations	Mitigation and Adaptation Strategies for Global Change				2017	10.1007/s11027-017-9746-z
19.	Ravindranath NH, Rajiv K Chaturvedi and Poornima, N	Paris Agreement; Research, Monitoring and Reporting	Current Science	112(5)		916-922	2017	

		Requirements for India						
20.	M. Shravanth Vasisht, G.A. Vashista, Sheela K. Ramasesha and J.Srinivasan	Rail coaches with rooftop solar photovoltaic systems: A feasibility study	ENERGY	118		684-691	2017	10.1016/j.energy.2016.10.103.
21.	Piyush.D.N., Goyal.j and J.Srinivasan	Retrieval of cloud ice water path using SAPHIR on board Megha-Tropiques over the tropical ocean	Advances in Space Research	59		1895-1906	2017	
22.	Vishal Dixit and J.Srinivasan	The role of boundary layer momentum advection in the mean location of ITCZ.	Journal of Earth System Science	126			2017	
23.	Shailendra Kumar and G. S. Bhat, 2017	Vertical structure of orographic precipitating clouds observed over South Asia during the summer monsoon season	J. Earth System Sic.	126:114				https://doi.org/10.1007/s12040-017-0897-9
24.	Sonali P., D. Nagesh Kumar and R.S. Nanjundiah	Intercomparison of CMIP5 and CMIP3 Simulations of the 20th Century Maximum and Minimum Temperatures over India and Detection of Climatic Trends	Theoretical and Applied Climatology Springer	Vol. 128,	No. 1	465-489	2017	DOI: 10.1007/s00704-015-1716-3
25.	K. Srinivasa Raju, Sonali P. and D. Nagesh Kumar	Ranking of CMIP5 based Global Climate Models for India using Compromise Programming	Theoretical and Applied Climatology, Springer	Vol. 128	No. 3	563-574	2017	10.1007/s00704-015-1721-6
26.	L. Karthikeyana, Pan Ming, Niko Wanders, D. Nagesh	Four Decades of Microwave Satellite Soil Moisture	Advances in Water Resources,	Vol. 109		106-120	2017	DOI: 10.1016/j.advw

	Kumar and Eric F. Wood	Observations: Part 1. A Review of Retrieval Algorithms	Elsevier					atres.2017.09.006
27.	L. Karthikeyana, Pan Ming, Niko Wanders, D. Nagesh Kumar and Eric F. Wood	Four Decades of Microwave Satellite Soil Moisture Observations: Part 2. Product Validation and Inter-satellite Comparisons	Advances in Water Resources, Elsevier	Vol. 109		236-252	2017	DOI: 10.1016/j.advwatres.2017.09.010
28.	Sonali Pattanayak, Ravi S Nanjundiah and D Nagesh Kumar	Linkage between global sea surface temperature and hydroclimatology of a major river basin of India before and after 1980	Environmental Research Letters	Vol. 12	124002	1-10	2017	DOI: 10.1088/1748-9326/aa9664
29.	Shwetha H R and D Nagesh Kumar,	Estimation of daily vegetation coefficients using MODIS data for clear and cloudy sky conditions	International Journal of Remote Sensing Taylor & Francis, in press				2017	
30.	Reshmidevi T V., D Nagesh Kumar, R Mehrotra and A Sharma	Estimation of the climate change impact on a catchment water balance using an ensemble of GCMs	Journal of Hydrology, Elsevier, in press				2017	DOI: 10.1016/j.jhydrol.2017.02.016
31.	Srinivasa Raju K, D Nagesh Kumar, Anmol Jalali	Prioritization of Sub-catchments of a River Basin using DEM and Fuzzy VIKOR	IWA Publishing, UK, in press, H2 Open Journal, Open Access				2017	DOI: 10.2166/h2oj.2017.001
32.	Shailza Sharma and Mujumdar, P.P.	Increasing Frequency and Spatial Extent of	Scientific Reports (Nature	Vol.7,	15582		2017	doi:10.1038/s41598-017-

		Concurrent Meteorological Droughts and Heatwaves in India	Publishing Group)					15896-3
33.	Chandra Rupa, R., and Mujumdar, P.P.	Quantification of Uncertainty in Spatial Return Levels of Urban Precipitation Extremes	ASCE Journal of Hydrologic Engineering	Vol.23(1)	04017053		2017	doi: 10.1061/(ASCE)HE.1943-5584.0001583
34.	A. Kumar, M.K. Verma and J. Sukhatme	Phenomenology of two-dimensional stably stratified turbulence under large-scale forcing	Journal of Turbulence					DOI:10.1080/14685248.2016.1271123
35.	Bhattacharya A, Chakraborty A, Venugopal V	Role of aerosols in modulating cloud properties during active–break cycle of Indian summer monsoon	Climate Dynamics 2nd ed. Springer Berlin Heidelberg	1:49		5-6	2017	
36.	Karmakar N, Chakraborty A, Nanjundiah RS	Increased sporadic extremes decrease the intraseasonal variability in the Indian summer monsoon rainfall	Scientific Reports: Springer US			1-7	2017	
37.	Chakraborty A, Agrawal S	Role of west Asian surface pressure in summer monsoon onset over central India.	Environ Res Lett.	Vol.12(7): 074002–9			2017	
38.	Arushi PV, Chakraborty A, Nanjundiah RS	Orographic control of the Bay of Bengal cold pool rainfall.	Indian Acad Sci (Earth Planet Sci). Springer India					

39.	Karmakar N, Chakraborty A, Nanjundiah RS	Space-Time Evolution of the Low- and High-Frequency Intraseasonal Modes of the Indian Summer Monsoon	Mon Weather Rev.	145(2)		413-35	2017	
40.	Ghosh R, Chakraborty A, Nanjundiah RS	Relative role of pre-monsoon conditions and intraseasonal oscillations in determining early-vs-late Indian monsoon intensity in a GCM	Theoretical and Applied Climatology; In Press					
41.	Karmarkar N., Chakraborty A., Nanjundiah R.S	Increased sporadic extremes decrease the intraseasonal variability in the Indian summer monsoon rainfall	Scientific Reports.	7:7824		1-7	2017	DOI:10.1038/s41598-017-07529-6
42.	Jahfer S., Vinaychandran P.N., Nanjundiah R.S	Long-term impact of Amazon river runoff on northern hemispheric climate	Scientific Reports	7:10989		1-9	2017	DOI:10.1038/s41598-017-10750-y
43.	Govardhan G., Satheesh S.K., Nanjundiah R. , Moorthy K.K., Babu S.S	Possible climatic implications of high-altitude black carbon emissions	Atmospheric Chemistry and Physics.			9623-9644	2017	DOI:10.5194/acp-17-9623-2017
44.	Kashyap, A, S S Vadhiyar, R S Nanjundiah, P N Vinayachandran	Asynchronous and Synchronous Models of Executions on Intel Xeon Phi Coprocessor Systems for High Performance of	Journal of Parallel and Distributed Computing	Vol.102		199-212	2017	

		Long Wave Radiation Calculations in Atmosphere models						
45.	Anandhi A, N Omani, I Chaubey, R Horton, D Bader and R S Nanjundiah	Synthetic Scenarios from CMIP5 Model Simulations for Climate Change Impact Assessments in Managed Ecosystems and Water Resources	Case Study in South Asian Countries Transactions of the ASABE	59(6)		1715-1731	2017	doi: 10.13031/trans.59.11585.
46.	S. Jahfer, P. N. Vinayachandran, R. S. Nanjundiah	Long-term impact of Amazon river runoff on northern hemispheric climate	Nature Scientific Reports	7: 10989			2017	DOI:10.1038/s41598-017-10750-y