

# Vijayakumar S Nair

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

2,214  
citations

236925

25  
h-index

243625

44  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1750  
citing authors

#	ARTICLE	IF	CITATIONS
1	Black carbon aerosols over the Himalayas: direct and surface albedo forcing. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 65, 19738.	1.6	118
2	Mesoscale variations of the chemical composition of submicron aerosols and its influence on the cloud condensation nuclei activation. <i>Atmospheric Environment</i> , 2022, 268, 118778.	4.1	5
3	Linkage between the absorbing aerosol-induced snow darkening effects over the Himalayas-Tibetan Plateau and the pre-monsoon climate over northern India. <i>Theoretical and Applied Climatology</i> , 2022, 147, 1033-1048.	2.8	6
4	Effects of Aerosol-Induced Snow Albedo Feedback on the Seasonal Snowmelt Over the Himalayan Region. <i>Water Resources Research</i> , 2022, 58, .	4.2	8
5	Deciphering the Role of Aerosol-Induced Snow Albedo Feedback on Dust Emission Over the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	3
6	Assessment of the vertical distribution of speciated aerosol absorption over South Asia using spaceborne LIDAR and ground-based observations. <i>Remote Sensing of Environment</i> , 2021, 253, 112164.	11.0	15
7	Effect of aerosol-induced snow darkening on the direct radiative effect of aerosols over the Himalayan region. <i>Environmental Research Letters</i> , 2021, 16, 064004.	5.2	17
8	Long-term changes in aerosol radiative properties over Ny-Ålesund: Results from Indian scientific expeditions to the Arctic. <i>Polar Science</i> , 2021, 30, 100700.	1.2	3
9	Mixing state of refractory black carbon aerosol in the South Asian outflow over the northern Indian Ocean during winter. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9173-9199.	4.9	16
10	Anthropogenic emissions from South Asia reverses the aerosol indirect effect over the northern Indian Ocean. <i>Scientific Reports</i> , 2020, 10, 18360.	3.3	25
11	Vertical distributions of the microscopic morphological characteristics and elemental composition of aerosols over India. <i>Journal of Atmospheric Chemistry</i> , 2020, 77, 117-140.	3.2	3
12	Particle number size distributions and new particle formation events over the northern Indian Ocean during continental outflow. <i>Atmospheric Environment</i> , 2020, 238, 117719.	4.1	22
13	Modeling of aerosol induced snow albedo feedbacks over the Himalayas and its implications on regional climate. <i>Climate Dynamics</i> , 2020, 54, 4191-4210.	3.8	39
14	Cloud condensation nuclei properties of South Asian outflow over the northern Indian Ocean during winter. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3135-3149.	4.9	26
15	Altitude profiles of cloud condensation nuclei characteristics across the Indo-Gangetic Plain prior to the onset of the Indian summer monsoon. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 561-576.	4.9	22
16	Mineral dust characterization over the Himalayan cryosphere using space-borne lidar depolarization observations. , 2020, , .		0
17	Amplification of South Asian haze by water vapour-aerosol interactions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14457-14471.	4.9	6
18	Seasonal contrast in the vertical profiles of aerosol number concentrations and size distributions over India: Implications from RAWEX aircraft campaign. <i>Journal of Earth System Science</i> , 2019, 128, 1.	1.3	9

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19	Recent Regime Shifts in Mineral Dust Trends Over South Asia From Long-Term CALIPSO Observations. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4485-4489.	6.3	16
20	Spatial gradient of aerosol mass concentrations and size distributions over southeastern Arabian Sea and equatorial Indian Ocean during ICARB-2018. Atmospheric Environment, 2019, 213, 727-738.	4.1	16
21	Modeling of the Effects of Wintertime Aerosols on Boundary Layer Properties Over the Indo Gangetic Plain. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4141-4157.	3.3	25
22	Long-Range Transport of Mineral Dust to the Northeast Indian Ocean: Regional versus Remote Sources and the Implications. Journal of Climate, 2019, 32, 1525-1549.	3.2	33
23	Scavenging ratio of black carbon in the Arctic and the Antarctic. Polar Science, 2018, 16, 10-22.	1.2	16
24	CCN activation properties at a tropical hill station in Western Ghats during south-west summer monsoon: Vertical heterogeneity. Atmospheric Research, 2018, 214, 36-45.	4.1	17
25	CCN characteristics over a tropical coastal station during south-west monsoon: observations and closure studies. Atmospheric Environment, 2017, 164, 299-308.	4.1	28
26	Direct radiative effects of aerosols over South Asia from observations and modeling. Climate Dynamics, 2017, 49, 1411-1428.	3.8	33
27	Vertical Structure of Aerosols and Mineral Dust Over the Bay of Bengal From Multisatellite Observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,845.	3.3	30
28	Characterisation of Absorbing Aerosols Using Ground and Satellite Data at an Urban Location, Hyderabad. Aerosol and Air Quality Research, 2016, 16, 1427-1440.	2.1	15
29	Large-scale enhancement in aerosol absorption in the lower free troposphere over continental India during spring. Geophysical Research Letters, 2016, 43, 11,453.	4.0	19
30	Seasonal variation of vertical distribution of aerosol single scattering albedo over Indian sub-continent: RAWEX aircraft observations. Atmospheric Environment, 2016, 125, 312-323.	4.1	38
31	Aerosol black carbon over Svalbard regions of Arctic. Polar Science, 2016, 10, 60-70.	1.2	28
32	Sources of black carbon aerosols in South Asia and surrounding regions during the Integrated Campaign for Aerosols, Gases and Radiation Budget (ICARB). Atmospheric Chemistry and Physics, 2015, 15, 5415-5428.	4.9	48
33	Increasing Arabian dust activity and the Indian summer monsoon. Atmospheric Chemistry and Physics, 2015, 15, 8051-8064.	4.9	113
34	Physical and optical properties of aerosols in a free tropospheric environment: Results from long-term observations over western trans-Himalayas. Atmospheric Environment, 2014, 84, 262-274.	4.1	37
35	Implications of multiple scattering on the assessment of black carbon aerosol radiative forcing. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 148, 134-140.	2.3	7
36	Black carbon and carbon monoxide over Bay of Bengal during W_ICARB: Source characteristics. Atmospheric Environment, 2014, 94, 508-517.	4.1	29

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37	Seasonal variation in the spatial distribution of aerosol black carbon over Bay of Bengal: A synthesis of multi-campaign measurements. <i>Atmospheric Environment</i> , 2013, 64, 366-373.	4.1	13
38	Trends in aerosol optical depth over Indian region: Potential causes and impact indicators. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,794.	3.3	195
39	Spatial Gradients in Aerosol-Induced Atmospheric Heating and Surface Dimming over the Oceanic Regions around India: Anthropogenic or Natural?. <i>Journal of Climate</i> , 2013, 26, 7611-7621.	3.2	14
40	Influence of continental outflow and ocean biogeochemistry on the distribution of fine and ultrafine particles in the marine atmospheric boundary layer over Arabian Sea and Bay of Bengal. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7321-7331.	3.3	20
41	Simulation of South Asian aerosols for regional climate studies. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	100
42	Radiative properties of Bay of Bengal aerosols: Spatial distinctiveness and source impacts. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
43	Airborne measurements of aerosol scattering properties above the MABL over Bay of Bengal during W_ICARB – characteristics and spatial gradients. <i>Annales Geophysicae</i> , 2011, 29, 895-908.	1.6	10
44	The optical and physical properties of atmospheric aerosols over the Indian Antarctic stations during southern hemispheric summer of the International Polar Year 2007–2008. <i>Annales Geophysicae</i> , 2011, 29, 109-121.	1.6	25
45	Black carbon aerosols over coastal Antarctica and its scavenging by snow during the Southern Hemispheric summer. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	39
46	Surprising observation of large anthropogenic aerosol fraction over the –near–pristine–southern Bay of Bengal: Climate implications. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	19
47	Optical and physical characteristics of Bay of Bengal aerosols during W_ICARB: Spatial and vertical heterogeneities in the marine atmospheric boundary layer and in the vertical column. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	53
48	Vertical distribution of aerosols over the east coast of India inferred from airborne LIDAR measurements. <i>Annales Geophysicae</i> , 2009, 27, 4157-4169.	1.6	37
49	Optical and Physical Properties of Atmospheric Aerosols over the Bay of Bengal during ICARB. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 2640-2658.	1.7	43
50	Spatial and vertical heterogeneities in aerosol properties over oceanic regions around India: Implications for radiative forcing. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 2131-2145.	2.7	116
51	Vertical structure and horizontal gradients of aerosol extinction coefficients over coastal India inferred from airborne lidar measurements during the Integrated Campaign for Aerosol, Gases and Radiation Budget (ICARB) field campaign. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	49
52	Aircraft measurements of aerosol black carbon from a coastal location in the north-east part of peninsular India during ICARB. <i>Journal of Earth System Science</i> , 2008, 117, 263-271.	1.3	52
53	Characteristics of spectral aerosol optical depths over India during ICARB. <i>Journal of Earth System Science</i> , 2008, 117, 303-313.	1.3	55
54	Size segregated aerosol mass concentration measurements over the Arabian Sea during ICARB. <i>Journal of Earth System Science</i> , 2008, 117, 315-323.	1.3	23

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55	Influence of circulation parameters on the AOD variations over the Bay of Bengal during ICARB. Journal of Earth System Science, 2008, 117, 353-360.	1.3	14
56	Seasonal changes in aerosol characteristics over Arabian Sea and their consequence on aerosol short-wave radiative forcing: Results from ARMEX field campaign. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 820-834.	1.6	26
57	Spatial distribution and spectral characteristics of aerosol single scattering albedo over the Bay of Bengal inferred from shipborne measurements. Geophysical Research Letters, 2008, 35, .	4.0	36
58	Aerosol characteristics in the marine atmospheric boundary layer over the Bay of Bengal and Arabian Sea during ICARB: Spatial distribution and latitudinal and longitudinal gradients. Journal of Geophysical Research, 2008, 113, .	3.3	67
59	Wintertime aerosol characteristics over the Indo-Gangetic Plain (IGP): Impacts of local boundary layer processes and long-range transport. Journal of Geophysical Research, 2007, 112, .	3.3	287