

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	Wintertime aerosol characteristics over the Indo-Gangetic Plain (IGP): Impacts of local boundary layer processes and long-range transport. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	287
2	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
3	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
4	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
5	Increasing Arabian dust activity and the Indian summer monsoon. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8051-8064.	4.9	113
6	Simulation of South Asian aerosols for regional climate studies. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	100
7	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. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	67
8	Characteristics of spectral aerosol optical depths over India during ICARB. <i>Journal of Earth System Science</i> , 2008, 117, 303-313.	1.3	55
9	Optical and physical characteristics of Bay of Bengal aerosols during 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
10	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
11	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
12	Sources of black carbon aerosols in South Asia and surrounding regions during the Integrated Campaign for Aerosols, Gases and Radiation Budget (ICARB). <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5415-5428.	4.9	48
13	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
14	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
15	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
16	Seasonal variation of vertical distribution of aerosol single scattering albedo over Indian sub-continent: RAWEX aircraft observations. <i>Atmospheric Environment</i> , 2016, 125, 312-323.	4.1	38
17	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
18	Physical and optical properties of aerosols in a free tropospheric environment: Results from long-term observations over western trans-Himalayas. <i>Atmospheric Environment</i> , 2014, 84, 262-274.	4.1	37

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19	Spatial distribution and spectral characteristics of aerosol single scattering albedo over the Bay of Bengal inferred from shipborne measurements. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	36
20	Direct radiative effects of aerosols over South Asia from observations and modeling. <i>Climate Dynamics</i> , 2017, 49, 1411-1428.	3.8	33
21	Long-Range Transport of Mineral Dust to the Northeast Indian Ocean: Regional versus Remote Sources and the Implications. <i>Journal of Climate</i> , 2019, 32, 1525-1549.	3.2	33
22	Vertical Structure of Aerosols and Mineral Dust Over the Bay of Bengal From Multisatellite Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,845.	3.3	30
23	Black carbon and carbon monoxide over Bay of Bengal during W_ICARB: Source characteristics. <i>Atmospheric Environment</i> , 2014, 94, 508-517.	4.1	29
24	Aerosol black carbon over Svalbard regions of Arctic. <i>Polar Science</i> , 2016, 10, 60-70.	1.2	28
25	CCN characteristics over a tropical coastal station during south-west monsoon: observations and closure studies. <i>Atmospheric Environment</i> , 2017, 164, 299-308.	4.1	28
26	Seasonal changes in aerosol characteristics over Arabian Sea and their consequence on aerosol short-wave radiative forcing: Results from ARMEX field campaign. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 820-834.	1.6	26
27	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
28	The optical and physical properties of atmospheric aerosols over the Indian Antarctic stations during southern hemispheric summer of the International Polar Year 2007â€“2008. <i>Annales Geophysicae</i> , 2011, 29, 109-121.	1.6	25
29	Modeling of the Effects of Wintertime Aerosols on Boundary Layer Properties Over the Indo Gangetic Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4141-4157.	3.3	25
30	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
31	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
32	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
33	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
34	Radiative properties of Bay of Bengal aerosols: Spatial distinctiveness and source impacts. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
35	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
36	Surprising observation of large anthropogenic aerosol fraction over the â€œnearâ€ristineâ€southern Bay of Bengal: Climate implications. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	19

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37	Large-scale enhancement in aerosol absorption in the lower free troposphere over continental India during spring. <i>Geophysical Research Letters</i> , 2016, 43, 11,453.	4.0	19
38	CCN activation properties at a tropical hill station in Western Ghats during south-west summer monsoon: Vertical heterogeneity. <i>Atmospheric Research</i> , 2018, 214, 36-45.	4.1	17
39	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
40	Scavenging ratio of black carbon in the Arctic and the Antarctic. <i>Polar Science</i> , 2018, 16, 10-22.	1.2	16
41	Recent Regime Shifts in Mineral Dust Trends Over South Asia From Long-Term CALIPSO Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 4485-4489.	6.3	16
42	Spatial gradient of aerosol mass concentrations and size distributions over southeastern Arabian Sea and equatorial Indian Ocean during ICARB-2018. <i>Atmospheric Environment</i> , 2019, 213, 727-738.	4.1	16
43	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
44	Characterisation of Absorbing Aerosols Using Ground and Satellite Data at an Urban Location, Hyderabad. <i>Aerosol and Air Quality Research</i> , 2016, 16, 1427-1440.	2.1	15
45	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
46	Influence of circulation parameters on the AOD variations over the Bay of Bengal during ICARB. <i>Journal of Earth System Science</i> , 2008, 117, 353-360.	1.3	14
47	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
48	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
49	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
50	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
51	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
52	Implications of multiple scattering on the assessment of black carbon aerosol radiative forcing. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 148, 134-140.	2.3	7
53	Amplification of South Asian haze by water vapour-aerosol interactions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14457-14471.	4.9	6
54	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

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55	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
56	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
57	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
58	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
59	Mineral dust characterization over the Himalayan cryosphere using space-borne lidar depolarization observations. , 2020, , .		0