

K Krishna Moorthy

List of Publications by Year in descending order

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187
papers

8,711
citations

44069

48
h-index

60623

81
g-index

206
all docs

206
docs citations

206
times ranked

3724
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiative effects of natural aerosols: A review. Atmospheric Environment, 2005, 39, 2089-2110.	4.1	450
2	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
3	Maritime Aerosol Network as a component of Aerosol Robotic Network. Journal of Geophysical Research, 2009, 114, .	3.3	258
4	Aerosol radiative forcing due to enhanced black carbon at an urban site in India. Geophysical Research Letters, 2002, 29, 27-1-27-4.	4.0	219
5	Trends in aerosol optical depth over Indian region: Potential causes and impact indicators. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,794.	3.3	195
6	Aerosol black carbon over a tropical coastal station in India. Geophysical Research Letters, 2002, 29, 13-1-13-4.	4.0	192
7	Integrated Campaign for Aerosols, gases and Radiation Budget (ICARB): An overview. Journal of Earth System Science, 2008, 117, 243-262.	1.3	178
8	Aerosol characteristics at a high-altitude location in central Himalayas: Optical properties and radiative forcing. Journal of Geophysical Research, 2006, 111, .	3.3	177
9	Buildup of aerosols over the Indian Region. Geophysical Research Letters, 2013, 40, 1011-1014.	4.0	171
10	Spatial distribution of aerosol black carbon over India during pre-monsoon season. Atmospheric Environment, 2009, 43, 1071-1078.	4.1	166
11	Characteristics of aerosol black carbon mass concentration over a high altitude location in the Central Himalayas from multi-year measurements. Atmospheric Research, 2010, 96, 510-521.	4.1	162
12	Climate implications of large warming by elevated aerosol over India. Geophysical Research Letters, 2008, 35, .	4.0	157
13	Maritime aerosol network as a component of AERONET – first results and comparison with global aerosol models and satellite retrievals. Atmospheric Measurement Techniques, 2011, 4, 583-597.	3.1	152
14	Aerosol temporal characteristics and its impact on shortwave radiative forcing at a location in the northeast of India. Journal of Geophysical Research, 2010, 115, .	3.3	144
15	Aerosol Characteristics and Radiative Impacts over the Arabian Sea during the Intermonsoon Season: Results from ARMEX Field Campaign. Journals of the Atmospheric Sciences, 2005, 62, 192-206.	1.7	133
16	Investigations of marine aerosols over the tropical Indian Ocean. Journal of Geophysical Research, 1997, 102, 18827-18842.	3.3	126
17	Black carbon aerosols over the Himalayas: direct and surface albedo forcing. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 19738.	1.6	118
18	Spatial and vertical heterogeneities in aerosol properties over oceanic regions around India: Implications for radiative forcing. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 2131-2145.	2.7	116

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19	Aerosol optical depth, physical properties and radiative forcing over the Arabian Sea. <i>Meteorology and Atmospheric Physics</i> , 2006, 91, 45-62.	2.0	103
20	Chemical, microphysical, and radiative effects of Indian Ocean aerosols. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 20-1-AAC 20-13.	3.3	100
21	Simulation of South Asian aerosols for regional climate studies. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	100
22	Characteristics of aerosol spectral optical depths over Manora Peak: A high-altitude station in the central Himalayas. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	98
23	Dust absorption over the "Great Indian Desert" inferred using ground-based and satellite remote sensing. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	98
24	Free tropospheric black carbon aerosol measurements using high altitude balloon: Do BC layers build "their own homes" up in the atmosphere?. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	98
25	Altitude profiles of aerosol BC, derived from aircraft measurements over an inland urban location in India. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	91
26	Temporal heterogeneity in aerosol characteristics and the resulting radiative impact at a tropical coastal station " Part 1: Microphysical and optical properties. <i>Annales Geophysicae</i> , 2007, 25, 2293-2308.	1.6	91
27	Climatology of columnar aerosol properties and the influence of synoptic conditions: First-time results from the northeastern region of India. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	89
28	High altitude (~4520 m amsl) measurements of black carbon aerosols over western trans-Himalayas: Seasonal heterogeneity and source apportionment. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	87
29	Aerosol black carbon over Arabian Sea during intermonsoon and summer monsoon seasons. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	83
30	Aerosol spectral optical depths over the Bay of Bengal: Role of transport. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	82
31	Wintertime spatial characteristics of boundary layer aerosols over peninsular India. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	80
32	Size Distribution of Coastal Aerosols: Effects of Local Sources and Sinks. <i>Journal of Applied Meteorology and Climatology</i> , 1991, 30, 844-852.	1.7	77
33	Aerosol optical depths over peninsular India and adjoining oceans during the INDOEX campaigns: Spatial, temporal, and spectral characteristics. <i>Journal of Geophysical Research</i> , 2001, 106, 28539-28554.	3.3	72
34	A study of PM, PM10 and PM2.5 concentration at a tropical coastal station. <i>Atmospheric Research</i> , 2002, 61, 149-167.	4.1	70
35	Heterogeneity in pre-monsoon aerosol types over the Arabian Sea deduced from ship-borne measurements of spectral AODs. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4893-4908.	4.9	70
36	Aerosol black carbon over Bay of Bengal observed from an island location, Port Blair: Temporal features and long-range transport. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	69

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37	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
38	Characterization of aerosol black carbon over a tropical semi-arid region of Anantapur, India. Atmospheric Research, 2011, 100, 12-27.	4.1	67
39	Spatial and temporal heterogeneity in aerosol properties and radiative forcing over Bay of Bengal: Sources and role of aerosol transport. Journal of Geophysical Research, 2006, 111, .	3.3	65
40	Investigations of aerosol black carbon from a semi-urban site in the Indo-Gangetic Plain region. Atmospheric Environment, 2016, 125, 346-359.	4.1	65
41	Aerosol black carbon characteristics over Central India: Temporal variation and its dependence on mixed layer height. Atmospheric Research, 2014, 147-148, 27-37.	4.1	60
42	Multi-year investigations of near surface and columnar aerosols over Dibrugarh, northeastern location of India: Heterogeneity in source impacts. Atmospheric Environment, 2011, 45, 1714-1724.	4.1	58
43	Vertical distribution of aerosols over an urban continental site in India inferred using a micro pulse lidar. Geophysical Research Letters, 2006, 33, .	4.0	55
44	Characteristics of spectral aerosol optical depths over India during ICARB. Journal of Earth System Science, 2008, 117, 303-313.	1.3	55
45	Multi-decadal variation of the net downward shortwave radiation over south Asia: The solar dimming effect. Atmospheric Environment, 2012, 50, 360-372.	4.1	55
46	Temporal heterogeneity in aerosol characteristics and the resulting radiative impacts at a tropical coastal station – Part 2: Direct short wave radiative forcing. Annales Geophysicae, 2007, 25, 2309-2320.	1.6	54
47	Performance evaluation of chemistry transport models over India. Atmospheric Environment, 2013, 71, 210-225.	4.1	54
48	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. Journal of Geophysical Research, 2010, 115, .	3.3	53
49	Aircraft measurements of aerosol black carbon from a coastal location in the north-east part of peninsular India during ICARB. Journal of Earth System Science, 2008, 117, 263-271.	1.3	52
50	Radiative effects of aerosols at an urban location in southern India: Observations versus model. Atmospheric Environment, 2010, 44, 5295-5304.	4.1	51
51	Wintertime aerosol characteristics at a north Indian site Kharagpur in the Indo-Gangetic plains located at the outflow region into Bay of Bengal. Journal of Geophysical Research, 2006, 111, .	3.3	49
52	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. Journal of Geophysical Research, 2009, 114, .	3.3	49
53	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
54	Black carbon aerosols in a tropical semi-urban coastal environment: Effects of boundary layer dynamics and long range transport. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 116-125.	1.6	46

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55	Aerosol number size distributions over a coastal semi urban location: Seasonal changes and ultrafine particle bursts. <i>Science of the Total Environment</i> , 2016, 563-564, 351-365.	8.0	46
56	Decreasing Trend in Black Carbon Aerosols Over the Indian Region. <i>Geophysical Research Letters</i> , 2019, 46, 2903-2910.	4.0	45
57	Night-time ionospheric scintillations at the magnetic equator. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1979, 41, 123-134.	0.9	44
58	Characteristics of aerosols over a remote island, Minicoy in the Arabian Sea: Optical properties and retrieved size characteristics. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 81-109.	2.7	44
59	Radiative effects of absorbing aerosols over northeastern India: Observations and model simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1132-1157.	3.3	44
60	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
61	Weekly periodicities of aerosol properties observed at an urban location in India. <i>Atmospheric Research</i> , 2011, 101, 307-313.	4.1	42
62	Potential Source Regions Contributing to Seasonal Variations of Black Carbon Aerosols over Anantapur in Southeast India. <i>Aerosol and Air Quality Research</i> , 2012, 12, 344-358.	2.1	41
63	Spatial Gradients in Aerosol Characteristics over the Arabian Sea and Indian Ocean. <i>Journal of Geophysical Research</i> , 1998, 103, 26183-26192.	3.3	40
64	Contribution of sea-salt to aerosol optical depth over the Arabian Sea derived from MODIS observations. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	40
65	Aerosol physical properties and Radiative forcing at the outflow region from the Indo-Gangetic plains during typical clear and hazy periods of wintertime. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	40
66	Contrasting aerosol characteristics and radiative forcing over Hyderabad, India due to seasonal mesoscale and synoptic-scale processes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 434-450.	2.7	40
67	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
68	Aerosol characteristics in north-east India using ARFINET spectral optical depth measurements. <i>Atmospheric Environment</i> , 2016, 125, 461-473.	4.1	39
69	Impact of Precipitation on Aerosol Spectral Optical Depth and Retrieved Size Distributions: A Case Study. <i>Journal of Applied Meteorology and Climatology</i> , 2004, 43, 902-914.	1.7	38
70	Optical, radiative, and source characteristics of aerosols at Minicoy, a remote island in the southern Arabian Sea. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	38
71	Absorption characteristics of aerosols over the northwestern region of India: Distinct seasonal signatures of biomass burning aerosols and mineral dust. <i>Atmospheric Environment</i> , 2013, 73, 92-102.	4.1	38
72	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

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73	Large contrast in the vertical distribution of aerosol optical properties and radiative effects across the Indo-Gangetic Plain during the SWAAMI "RAWEX" campaign. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17669-17685.	4.9	38
74	Influence of Changes in the Prevailing Synoptic Conditions on the Response of Aerosol Characteristics to Land- and Sea-Breeze Circulations at a Coastal Station. <i>Boundary-Layer Meteorology</i> , 2003, 108, 145-161.	2.3	37
75	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
76	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
77	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
78	Estimation of the effect of long-range transport on seasonal variation of aerosols over northeastern India. <i>Annales Geophysicae</i> , 2008, 26, 1365-1377.	1.6	36
79	Fine and ultrafine particles at a near "free tropospheric environment over the high-altitude station Hanle in the Trans-Himalaya: New particle formation and size distribution. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	36
80	Seasonal contrast in size distributions and mixing state of black carbon and its association with PM _{2.5} ; chemical composition from the eastern coast of India. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3965-3985.	4.9	36
81	Sea-Breeze Front Effects on Boundary-layer Aerosols at a Tropical Coastal Station. <i>Journal of Applied Meteorology and Climatology</i> , 1993, 32, 1196-1205.	1.7	34
82	Measurements of aerosol optical depths and black carbon over Bay of Bengal during post-monsoon season. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	34
83	Temporal and spectral characteristics of aerosol optical depths in a semi-arid region of southern India. <i>Science of the Total Environment</i> , 2009, 407, 2673-2688.	8.0	34
84	Aerosol optical depths at Mohal-Kullu in the northwestern Indian Himalayan high altitude station during ICARB. <i>Journal of Earth System Science</i> , 2009, 118, 41-48.	1.3	34
85	Large latitudinal gradients and temporal heterogeneity in aerosol black carbon and its mass mixing ratio over southern and northern oceans observed during a trans-continental cruise experiment. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	33
86	Short-Period Modulations in Aerosol Optical Depths over the Central Himalayas: Role of Mesoscale Processes. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 1467-1475.	1.5	33
87	Direct radiative effects of aerosols over South Asia from observations and modeling. <i>Climate Dynamics</i> , 2017, 49, 1411-1428.	3.8	33
88	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
89	Surface changes in solar irradiance due to aerosols over central Himalayas. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	32
90	Chemical characteristics of PM ₁₀ aerosols and air mass trajectories over Bay of Bengal and Arabian Sea during ICARB. <i>Journal of Earth System Science</i> , 2008, 117, 345-352.	1.3	31

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91	Optical properties and CCN activity of aerosols in a high-altitude Himalayan environment: Results from RAWEX-GVAX. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2453-2469.	3.3	31
92	Microwave radiometer observations of interannual water vapor variability and vertical structure over a tropical station. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4585-4599.	3.3	31
93	Vertical profiles of aerosol black carbon in the atmospheric boundary layer over a tropical coastal station: Perturbations during an annular solar eclipse. <i>Atmospheric Research</i> , 2011, 99, 471-478.	4.1	30
94	Aerosol characteristics over coastal regions of the Arabian Sea. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1997, 49, 417-428.	1.6	29
95	Meridional gradients in aerosol vertical distribution over Indian Mainland: Observations and model simulations. <i>Atmospheric Environment</i> , 2016, 125, 337-345.	4.1	29
96	Interannual Variations of Aerosol Optical Depth over Coastal India: Relation to Synoptic Meteorology. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 1066-1077.	1.7	28
97	Monsoon sensitivity to aerosol direct radiative forcing in the community atmosphere model. <i>Journal of Earth System Science</i> , 2012, 121, 867-889.	1.3	28
98	Aerosol black carbon over Svalbard regions of Arctic. <i>Polar Science</i> , 2016, 10, 60-70.	1.2	28
99	Validation of MODIS derived aerosol optical depth and an investigation on aerosol transport over the South East Arabian Sea during ARMEX-II. <i>Annales Geophysicae</i> , 2009, 27, 2285-2296.	1.6	27
100	Analysis of optical properties of atmospheric aerosols inferred from spectral AODs and Å...ngstrÅm wavelength exponent. <i>Atmospheric Environment</i> , 2011, 45, 1275-1285.	4.1	27
101	Aerosol characteristics over coastal regions of the Arabian Sea. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1997, 49, 417-428.	1.6	26
102	Physical and optical characteristics of atmospheric aerosols during ICARB at Manora Peak, Nainital: A sparsely inhabited, high-altitude location in the Himalayas. <i>Journal of Earth System Science</i> , 2008, 117, 399-405.	1.3	26
103	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
104	Evolution of Aerosol Research in India and the RAWEX-GVAX: An Overview. <i>Current Science</i> , 2016, 111, 53.	0.8	26
105	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
106	The formation and growth of ultrafine particles in two contrasting environments: a case study. <i>Annales Geophysicae</i> , 2014, 32, 817-830.	1.6	24
107	Latitudinal variation of aerosol optical depths from northern Arabian Sea to Antarctica. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	23
108	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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109	Altitude variation of aerosol properties over the Himalayan range inferred from spatial measurements. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 1747-1761.	1.6	22
110	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
111	Time evolution of the optical effects and aerosol characteristics of Mt. Pinatubo origin from ground-based observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1996, 58, 1101-1116.	0.9	21
112	Radiative properties of Bay of Bengal aerosols: Spatial distinctiveness and source impacts. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
113	Microwave Radiometric Observation of a Waterspout Over Coastal Arabian Sea. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1075-1079.	3.1	21
114	Performance of free-space optical communication systems: effect of aerosol-induced lower atmospheric warming. <i>Optics Express</i> , 2019, 27, 11303.	3.4	21
115	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
116	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
117	Spatial heterogeneities in aerosol size distribution over Bay of Bengal during Winter-ICARB Experiment. <i>Atmospheric Environment</i> , 2011, 45, 4695-4706.	4.1	19
118	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
119	Aerosol characteristics at a remote island: Minicoy in southern Arabian Sea. <i>Journal of Earth System Science</i> , 2008, 117, 389-397.	1.3	18
120	Aerosol microphysics over a tropical coastal station inferred from the spectral dependence of Angstrom wavelength exponent and inversion of spectral aerosol optical depths. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1846-1857.	1.6	18
121	Possible climatic implications of high-altitude black carbon emissions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9623-9644.	4.9	18
122	Spectral and temporal characteristics of aerosol optical depth over a wet tropical location in North East India. <i>Advances in Space Research</i> , 2005, 35, 1423-1429.	2.6	17
123	How Good is the Assumption About Visible Surface Reflectance in MODIS Aerosol Retrieval Over Land? A Comparison With Aircraft Measurements Over an Urban Site in India. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 1990-1998.	6.3	17
124	Size segregated mass concentration and size distribution of near surface aerosols over a tropical Indian semi-arid station, Anantapur: Impact of long range transport. <i>Science of the Total Environment</i> , 2009, 407, 5589-5604.	8.0	17
125	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.	1.6	17
126	Entanglement of near-surface optical turbulence to atmospheric boundary layer dynamics and particulate concentration: implications for optical wireless communication systems. <i>Applied Optics</i> , 2020, 59, 1471.	1.8	17

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127	A study of equatorial wave characteristics using rockets, balloons, lidar and radar. <i>Advances in Space Research</i> , 2003, 32, 813-818.	2.6	16
128	Temporal variation of aerosol optical depth and associated shortwave radiative forcing over a coastal site along the west coast of India. <i>Science of the Total Environment</i> , 2014, 468-469, 83-92.	8.0	16
129	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
130	Large scale modulations of spectral aerosol optical depths by atmospheric planetary waves. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	15
131	Role of circulation parameters in long range aerosol transport: Evidence from Winter-ICARB. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 77, 144-151.	1.6	15
132	Spring-Time Enhancement in Aerosol Burden over a High-Altitude Location in Western Trans-Himalaya: Results from Long-Term Observations. <i>Current Science</i> , 2016, 111, 117.	0.8	15
133	Airborne in situ measurements of aerosol size distributions and black carbon across the Indo-Gangetic Plain during SWAAMIâ€“RAWEX. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8593-8610.	4.9	15
134	Variability of remote sensing reflectance and implications for optical remote sensingâ€“A study along the eastern and northeastern waters of Arabian Sea. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	14
135	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
136	A study on the variations of optical and physical properties of aerosols over a tropical semi-arid station during grassland fire. <i>Atmospheric Research</i> , 2010, 95, 77-87.	4.1	14
137	Spatial heterogeneities in aerosol properties over Bay of Bengal inferred from ship-borne and MODIS observations during ICARB-W cruise campaign: Implications to radiative forcing. <i>Atmospheric Environment</i> , 2011, 45, 404-412.	4.1	14
138	Spatial distribution and vertical structure of the MABL aerosols over Bay of Bengal during winter: Results from W-ICARB experiment. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 430-438.	1.6	14
139	Multi-year investigations of aerosols from an island station, Port Blair, in the Bay of Bengal: climatology and source impacts. <i>Annales Geophysicae</i> , 2012, 30, 1113-1127.	1.6	14
140	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
141	Dependence of atmospheric refractive index structure parameter (Cn2) on the residence time and vertical distribution of aerosols. <i>Optics Letters</i> , 2017, 42, 2714.	3.3	14
142	ICARB: an integrated campaign for aerosols, gases, and radiation budget over India. , 2006, 6408, 127.		13
143	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
144	Rapid response of atmospheric <sc>BC</sc> to anthropogenic sources: observational evidence. <i>Atmospheric Science Letters</i> , 2014, 15, 166-171.	1.9	13

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145	The Unusual Severe Dust Storm of May 2018 Over Northern India: Genesis, Propagation, and Associated Conditions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032369.	3.3	13
146	Boundary layer aerosols at Trivandrum tropical coast. <i>Advances in Space Research</i> , 2004, 34, 838-844.	2.6	12
147	Inter-comparison and performance evaluation of chemistry transport models over Indian region. <i>Atmospheric Environment</i> , 2016, 125, 486-504.	4.1	12
148	Distinctive roles of elevated absorbing aerosol layers on free-space optical communication systems. <i>Applied Optics</i> , 2018, 57, 7152.	1.8	11
149	The role of low-frequency intraseasonal oscillations in the anomalous Indian summer monsoon rainfall of 2002. <i>Journal of Earth System Science</i> , 2007, 116, 149-157.	1.3	10
150	Vertical and Horizontal Gradients in Aerosol Black Carbon and Its Mass Fraction to Composite Aerosols over the East Coast of Peninsular India from Aircraft Measurements. <i>Advances in Meteorology</i> , 2010, 2010, 1-7.	1.6	10
151	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
152	Simulations of black carbon over the Indian region: improvements and implications of diurnality in emissions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8229-8241.	4.9	10
153	Assessment of regional aerosol radiative effects under the SWAAMI campaign – Part 1: Quality-enhanced estimation of columnar aerosol extinction and absorption over the Indian subcontinent. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11865-11886.	4.9	10
154	Enhanced optical pulse broadening in free-space optical links due to the radiative effects of atmospheric aerosols. <i>Optics Express</i> , 2021, 29, 865.	3.4	10
155	An Investigation of Aerosol Size Distribution Properties at Dibrugarh: North-Eastern India. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009, 20, 521.	0.6	9
156	Vertical profile of aerosol single scattering albedo over west coast of India during W_ICARB. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 876-882.	1.6	9
157	New Directions: Elevated layers of anthropogenic aerosols aggravate stratospheric ozone loss?. <i>Atmospheric Environment</i> , 2013, 79, 879-882.	4.1	9
158	Spatio-temporal variations in aerosol properties over the oceanic regions between coastal India and Antarctica. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 104, 18-28.	1.6	9
159	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
160	Vertical profiles of submicron aerosol single scattering albedo over the Indian region immediately before monsoon onset and during its development: research from the SWAAMI field campaign. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4031-4046.	4.9	9
161	Latitudinal distribution of aerosol black carbon and its mass fraction to composite aerosols over peninsular India during winter season. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	8
162	Impact of a mountain grassland fire on the concentration of aerosol black carbon and carbon monoxide near the surface at a remote coastal location. <i>Atmospheric Research</i> , 2008, 88, 46-55.	4.1	8

#	ARTICLE	IF	CITATIONS
163	Tropical Convective Cloud Characterization Using Ground-Based Microwave Radiometric Observations. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3774-3779.	6.3	8
164	Atmospheric Boundary Layer Characterization Using Multiyear Ground-Based Microwave Radiometric Observations Over a Tropical Coastal Station. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6877-6882.	6.3	8
165	Impact of a noon-time annular solar eclipse on the mixing layer height and vertical distribution of aerosols in the atmospheric boundary layer. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 74, 232-237.	1.6	7
166	Aerosol mass size distribution and black carbon over a high altitude location in Western Trans-Himalayas: Impact of a dust episode. Aeolian Research, 2014, 15, 161-168.	2.7	7
167	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
168	New estimates of aerosol radiative effects over India from surface and satellite observations. Atmospheric Research, 2022, 276, 106254.	4.1	7
169	A Detailed Study of Land Surface Microwave Emissivity Over the Indian Subcontinent. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3604-3612.	6.3	6
170	Signal statistics of equatorial nighttime ionospheric scintillations. Radio Science, 1980, 15, 1001-1007.	1.6	5
171	Aerosol characteristics at a continental urban station in southern India. International Journal of Environment and Waste Management, 2009, 4, 256.	0.3	5
172	Aerosol optical thickness and spatial variability along coastal and offshore waters of the eastern Arabian Sea. ICES Journal of Marine Science, 2011, 68, 745-750.	2.5	5
173	Anthropogenic aerosol fraction over the Indian region: model simulations versus multi-satellite data analysis. International Journal of Remote Sensing, 2016, 37, 782-804.	2.9	5
174	Quasi-biennial oscillations in spectral aerosol optical depth. Atmospheric Science Letters, 2009, 10, 279-284.	1.9	4
175	Zonal variations in the vertical distribution of atmospheric aerosols over the Indian region and the consequent radiative effects. Atmospheric Chemistry and Physics, 2022, 22, 6067-6085.	4.9	4
176	Reply to comment by S. Ramachandran on "Surface changes in solar irradiance due to aerosols over central Himalayas". Geophysical Research Letters, 2008, 35, .	4.0	3
177	Assessment of regional aerosol radiative effects under the SWAAMI campaign " Part 2: Clear-sky direct shortwave radiative forcing using multi-year assimilated data over the Indian subcontinent. Atmospheric Chemistry and Physics, 2020, 20, 14237-14252.	4.9	3
178	Short period variations of the aerosol mass concentrations over Bay of Bengal: Association with quasi-periodic variations in the Marine Atmospheric Boundary Layer parameters and fluxes. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 77, 78-84.	1.6	2
179	Ionospheric impact on the geopotential height profile of the temperature by balloon-borne GPS radiosondes?. Geophysical Research Letters, 2013, 40, 239-244.	4.0	2
180	Temporal heterogeneity in aerosol characteristics at a tropical coastal station and the resulting radiative impacts. , 2006, 6408, 230.		1

#	ARTICLE	IF	CITATIONS
181	Aerosol Number Size Distribution Measurements at Hanle, a Free Tropospheric High-Altitude Site in Western Himalayas. Journal of the Institute of Engineering, 2012, 8, 140-146.	0.3	1
182	Radiative effects of atmospheric aerosols on the average channel capacity of free-space optical communication systems. Applied Optics, 2021, 60, 9957.	1.8	1
183	Drift speeds of equatorial electrojet irregularities of kilometre and metre sizes. Journal of Atmospheric and Solar-Terrestrial Physics, 1986, 48, 649-653.	0.9	0
184	Wintertime characteristics of aerosol black carbon at a North Indian station: role of boundary layer processes. , 2006, , .		0
185	Aerosol black carbon over Bay of Bengal, observed from an island location, Port Blair: temporal features and long-range transport. , 2006, , .		0
186	Validation of ground-based microwave radiometer measurements over a tropical coastal station. , 2019, , .		0
187	Daytime Reduction in Near-Surface Optical Turbulence due to Black Carbon Aerosols. , 2021, , .		0