

Sachchida N Tripathi

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105 papers	4,413 citations	36 h-index	64 g-index
109 ext. papers	5,067 ext. citations	5.9 avg, IF	5.61 L-index

#	Paper	IF	Citations
105	Variability of aerosol parameters over Kanpur, northern India. <i>Journal of Geophysical Research</i> , 2004 , 109,		304
104	Influence of dust storms on the aerosol optical properties over the Indo-Gangetic basin. <i>Journal of Geophysical Research</i> , 2004 , 109,		288
103	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. <i>Journal of Geophysical Research</i> , 2010 , 115,		276
102	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,		235
101	A 1 year record of carbonaceous aerosols from an urban site in the Indo-Gangetic Plain: Characterization, sources, and temporal variability. <i>Journal of Geophysical Research</i> , 2010 , 115,		170
100	Temporal trends in atmospheric PM ₁₀ /PM _{2.5} /elemental carbon, organic carbon, water-soluble organic carbon, and optical properties: impact of biomass burning emissions in the Indo-Gangetic Plain. <i>Environmental Science & Technology</i> , 2012 , 46, 686-95	10.3	154
99	Field evaluation of low-cost particulate matter sensors in high- and low-concentration environments. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 4823-4846	4	143
98	Aerosol properties over the Indo-Gangetic Plain: A mesoscale perspective from the TIGERZ experiment. <i>Journal of Geophysical Research</i> , 2011 , 116,		122
97	Pre-monsoon aerosol characteristics over the Indo-Gangetic Basin: implications to climatic impact. <i>Annales Geophysicae</i> , 2011 , 29, 789-804	2	105
96	Role of atmospheric ammonia in the formation of inorganic secondary particulate matter: A study at Kanpur, India. <i>Journal of Atmospheric Chemistry</i> , 2007 , 58, 1-17	3.2	104
95	Aerosol direct radiative effects over Kanpur in the Indo-Gangetic basin, northern India: Long-term (2001-2005) observations and implications to regional climate. <i>Journal of Geophysical Research</i> , 2008 , 113,		103
94	Four-year measurements of trace gases (SO ₂ , NO _x , CO, and O ₃) at an urban location, Kanpur, in Northern India. <i>Journal of Atmospheric Chemistry</i> , 2014 , 71, 283-301	3.2	95
93	Aerosol black carbon radiative forcing at an industrial city in northern India. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	94
92	Measurements of atmospheric parameters during Indian Space Research Organization Geosphere Biosphere Programme Land Campaign II at a typical location in the Ganga basin: 1. Physical and optical properties. <i>Journal of Geophysical Research</i> , 2006 , 111,		93
91	Dust events in Kanpur, northern India: Chemical evidence for source and implications to radiative forcing. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	91
90	Measurements of atmospheric parameters during Indian Space Research Organization Geosphere Biosphere Program Land Campaign II at a typical location in the Ganga Basin: 2. Chemical properties. <i>Journal of Geophysical Research</i> , 2006 , 111,		78
89	Fog- and cloud-induced aerosol modification observed by the Aerosol Robotic Network (AERONET). <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		70

88	Estimation of aerosol optical properties and radiative effects in the Ganga basin, northern India, during the wintertime. <i>Journal of Geophysical Research</i> , 2007 , 112,		68
87	Applications of Electrified Dust and Dust Devil Electrodynamics to Martian Atmospheric Electricity. <i>Space Science Reviews</i> , 2016 , 203, 299-345	7.5	61
86	Study of MPLNET-Derived Aerosol Climatology over Kanpur, India, and Validation of CALIPSO Level 2 Version 3 Backscatter and Extinction Products. <i>Journal of Atmospheric and Oceanic Technology</i> , 2012 , 29, 1285-1294	2	59
85	SPARTAN: a global network to evaluate and enhance satellite-based estimates of ground-level particulate matter for global health applications. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 505-524	4	56
84	CCN closure study: Effects of aerosol chemical composition and mixing state. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 766-783	4.4	54
83	Contribution of Brown Carbon to Direct Radiative Forcing over the Indo-Gangetic Plain. <i>Environmental Science & Technology</i> , 2015 , 49, 10474-81	10.3	53
82	Real-time measurements of ambient aerosols in a polluted Indian city: Sources, characteristics, and processing of organic aerosols during foggy and nonfoggy periods. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 9006-9019	4.4	53
81	Probable mixing state of aerosols in the Indo-Gangetic Basin, northern India. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	53
80	Retrieving the composition and concentration of aerosols over the Indo-Gangetic basin using CALIOP and AERONET data. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	52
79	Investigation of the aerosol-cloud-rainfall association over the Indian summer monsoon region. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5185-5204	6.8	48
78	A parameterization of ion-induced nucleation of sulphuric acid and water for atmospheric conditions. <i>Journal of Geophysical Research</i> , 2005 , 110,		46
77	Observations of new particle formation at two distinct Indian subcontinental urban locations. <i>Atmospheric Environment</i> , 2014 , 96, 370-379	5.3	45
76	Refractive Index and Absorption Attribution of Highly Absorbing Brown Carbon Aerosols from an Urban Indian City-Kanpur. <i>Scientific Reports</i> , 2016 , 6, 37735	4.9	44
75	Latitudinal variation of aerosol properties from Indo-Gangetic Plain to central Himalayan foothills during TIGERZ campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4750-4769	4.4	43
74	Modeling optical properties of mineral dust over the Indian Desert. <i>Journal of Geophysical Research</i> , 2008 , 113,		41
73	Real-time measurement and source apportionment of elements in Delhi's atmosphere. <i>Science of the Total Environment</i> , 2020 , 742, 140332	10.2	40
72	Global Sources of Fine Particulate Matter: Interpretation of PM Chemical Composition Observed by SPARTAN using a Global Chemical Transport Model. <i>Environmental Science & Technology</i> , 2018 , 52, 11670-11681	10.3	40
71	Aerosol-induced intensification of cooling effect of clouds during Indian summer monsoon. <i>Nature Communications</i> , 2018 , 9, 3754	17.4	39

70	Enhanced layer of black carbon in a north Indian industrial city. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	37
69	Elevated aerosol layers and their radiative impact over Kanpur during monsoon onset period. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7936-7957	4.4	36
68	Observation-based 3-D view of aerosol radiative properties over Indian Continental Tropical Convergence Zone: implications to regional climate. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 971-989	3.3	34
67	Chemical characterization of PM and source apportionment of organic aerosol in New Delhi, India. <i>Science of the Total Environment</i> , 2020 , 745, 140924	10.2	34
66	Evidence for the role of ion-induced particle formation during an atmospheric nucleation event observed in Tropospheric Ozone Production about the Spring Equinox (TOPSE). <i>Journal of Geophysical Research</i> , 2006 , 111,		31
65	Dust charging and electrical conductivity in the day and nighttime atmosphere of Mars. <i>Journal of Geophysical Research</i> , 2008 , 113,		30
64	Implications of particle composition and shape to dust radiative effect: A case study from the Great Indian Desert. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	30
63	Examination of monitoring approaches for ambient air pollution: A case study for India. <i>Atmospheric Environment</i> , 2019 , 216, 116940	5.3	29
62	Highly charged cloud particles in the atmosphere of Venus. <i>Journal of Geophysical Research</i> , 2009 , 114,		29
61	Understanding Diurnality and Inter-Seasonality of a Sub-tropical Urban Heat Island. <i>Boundary-Layer Meteorology</i> , 2017 , 163, 287-309	3.4	28
60	Inter-seasonal variability in size-resolved CCN properties at Kanpur, India. <i>Atmospheric Environment</i> , 2014 , 85, 161-168	5.3	27
59	Comparison of experimental and modeled absorption enhancement by black carbon (BC) cored polydisperse aerosols under hygroscopic conditions. <i>Environmental Science & Technology</i> , 2012 , 46, 8082-9	10.3	27
58	An overview of the physico-chemical characteristics of dust at Kanpur in the central Indo-Gangetic basin. <i>Atmospheric Environment</i> , 2014 , 97, 386-396	5.3	25
57	Harmonisation of nanoparticle concentration measurements using GRIMM and TSI scanning mobility particle sizers. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	25
56	Characterization of organic residues of size-resolved fog droplets and their atmospheric implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 4317-4332	4.4	23
55	First Surface Measurement of Cloud Condensation Nuclei over Kanpur, IGP: Role of Long Range Transport. <i>Aerosol Science and Technology</i> , 2012 , 46, 973-982	3.4	22
54	Absorbing Refractive Index and Direct Radiative Forcing of Atmospheric Brown Carbon over Gangetic Plain. <i>ACS Earth and Space Chemistry</i> , 2018 , 2, 31-37	3.2	22
53	Aerosol-cloud associations over Gangetic Basin during a typical monsoon depression event using WRF-Chem simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 10,974-10,995	4.4	21

52	Combined effects of organic aerosol loading and fog processing on organic aerosols oxidation, composition, and evolution. <i>Science of the Total Environment</i> , 2016 , 573, 690-698	10.2	21
51	Interaction of convective organization with monsoon precipitation, atmosphere, surface and sea: The 2016 INCOMPASS field campaign in India. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 , 146, 2828-2852	6.4	21
50	Laboratory observations of temperature and humidity dependencies of nucleation and growth rates of sub-3 nm particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1919-1929	4.4	20
49	Real-Time Measurements of PM _{2.5} Oxidative Potential Using a Dithiothreitol Assay in Delhi, India. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 504-510	11	20
48	Numerical predictions of aerosol charging and electrical conductivity of the lower atmosphere of Mars. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	20
47	Why airborne transmission hasn't been conclusive in case of COVID-19? An atmospheric science perspective. <i>Science of the Total Environment</i> , 2021 , 773, 145525	10.2	20
46	Aerosol and Urban Land Use Effect on Rainfall Around Cities in Indo-Gangetic Basin From Observations and Cloud Resolving Model Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 3645-3667	4.4	19
45	Variation in chemical composition and sources of PM during the COVID-19 lockdown in Delhi. <i>Environment International</i> , 2021 , 153, 106541	12.9	19
44	Source characterization of volatile organic compounds measured by proton-transfer-reaction time-of-flight mass spectrometers in Delhi, India. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9753-9770	6.8	18
43	Intensive allochthonous inputs along the Ganges River and their effect on microbial community composition and dynamics. <i>Environmental Microbiology</i> , 2019 , 21, 182-196	5.2	18
42	Atmospheric ions and new particle formation events at a tropical location, Pune, India. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 3140-3156	6.4	17
41	Profiles of Ion and Aerosol Interactions in Planetary Atmospheres. <i>Space Science Reviews</i> , 2008 , 137, 193-211	7.5	17
40	Climatological trends in satellite-derived aerosol optical depth over North India and its relationship with crop residue burning: Rural-urban contrast. <i>Science of the Total Environment</i> , 2020 , 748, 140963	10.2	17
39	Gaussian process regression model for dynamically calibrating and surveilling a wireless low-cost particulate matter sensor network in Delhi. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5161-5181	4	16
38	Realtime chemical characterization of post monsoon organic aerosols in a polluted urban city: Sources, composition, and comparison with other seasons. <i>Environmental Pollution</i> , 2018 , 232, 310-321	9.3	16
37	Long-term trends in air quality in major cities in the UK and India: a view from space. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 6275-6296	6.8	15
36	Highly time resolved chemical characterization of submicron organic aerosols at a polluted urban location. <i>Environmental Sciences: Processes and Impacts</i> , 2016 , 18, 1285-1296	4.3	15
35	Variations in Black Carbon concentration and sources during COVID-19 lockdown in Delhi. <i>Chemosphere</i> , 2021 , 270, 129435	8.4	14

34	Real-time characterization and source apportionment of fine particulate matter in the Delhi megacity area during late winter. <i>Science of the Total Environment</i> , 2021 , 770, 145324	10.2	14
33	Access to Household Water Quality Information Leads to Safer Water: A Cluster Randomized Controlled Trial in India. <i>Environmental Science & Technology</i> , 2018 , 52, 5319-5329	10.3	11
32	Robust statistical calibration and characterization of portable low-cost air quality monitoring sensors to quantify real-time O ₃ and NO ₂ concentrations in diverse environments. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 37-52	4	11
31	Quantitative assessment of AOD from 17 CMIP5 models based on satellite-derived AOD over India. <i>Annales Geophysicae</i> , 2016 , 34, 657-671	2	10
30	A photochemical model of the dust-loaded ionosphere of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 2335-2348	4.1	9
29	Biases in Model-Simulated Surface Energy Fluxes During the Indian Monsoon Onset Period. <i>Boundary-Layer Meteorology</i> , 2019 , 170, 323-348	3.4	9
28	Validation of Low-Cost Sensors in Measuring Real-Time PM Concentrations at Two Sites in Delhi National Capital Region. <i>Sensors</i> , 2020 , 20,	3.8	8
27	Detection and Quantification of Enteric Pathogens in Aerosols Near Open Wastewater Canals in Cities with Poor Sanitation. <i>Environmental Science & Technology</i> , 2021 , 55, 14758-14771	10.3	7
26	Evolution of Aerosol Size and Composition in the Indo-Gangetic Plain: Size-Resolved Analysis of High-Resolution Aerosol Mass Spectra. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 823-832	3.2	6
25	Vertical Structure and Radiative Forcing of Monsoon Clouds Over Kanpur During the 2016 INCOMPASS Field Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 2152-2174	4.4	6
24	Wintertime hygroscopic growth factors (HGFs) of accumulation mode particles and their linkage to chemical composition in a heavily polluted urban atmosphere of Kanpur at the Centre of IGP, India: Impact of ambient relative humidity. <i>Science of the Total Environment</i> , 2020 , 704, 135363	10.2	6
23	Spatial and temporal variability in energy and water vapour fluxes observed at seven sites on the Indian subcontinent during 2017. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 , 146, 2853-2866	6.4	6
22	The Indian COSMOS Network (ICON): Validating L-Band Remote Sensing and Modelled Soil Moisture Data Products. <i>Remote Sensing</i> , 2021 , 13, 537	5	6
21	Diurnal variability in the spectral characteristics and sources of water-soluble brown carbon aerosols over Delhi. <i>Science of the Total Environment</i> , 2021 , 794, 148589	10.2	6
20	Particle formation from vapors emitted from glowing wires: Theory and experiments. <i>Aerosol Science and Technology</i> , 2020 , 54, 243-261	3.4	5
19	Large global variations in measured airborne metal concentrations driven by anthropogenic sources. <i>Scientific Reports</i> , 2020 , 10, 21817	4.9	4
18	Effect of Biomass Burning on PM 2.5 Composition and Secondary Aerosol Formation During Post-Monsoon and Winter Haze Episodes in Delhi. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022 , 127,	4.4	4
17	Numerical study for production of space charge within the stratiform cloud. <i>Journal of Earth System Science</i> , 2010 , 119, 627-638	1.8	3

16	Extended-spectrum beta-lactamase (ESBL)-positive Escherichia coli presence in urban aquatic environments in Kanpur, India. <i>Journal of Water and Health</i> , 2020 , 18, 849-854	2.2	3
15	Domain Adaptation-Based Deep Calibration of Low-Cost PM ₁₀ Sensors. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	3
14	Aerosol Loading and Radiation Budget Perturbations in Densely Populated and Highly Polluted Indo-Gangetic Plain by COVID-19: Influences on Cloud Properties and Air Temperature.. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093796	4.9	3
13	An application of probability density function for the analysis of PM _{2.5} concentration during the COVID-19 lockdown period. <i>Science of the Total Environment</i> , 2021 , 782, 146681	10.2	3
12	On radiative forcing of sulphate aerosol produced from ion-promoted nucleation mechanisms in an atmospheric global model. <i>Meteorology and Atmospheric Physics</i> , 2011 , 112, 101-115	2	2
11	Current status of source apportionment of ambient aerosols in India. <i>Atmospheric Environment</i> , 2022 , 274, 118987	5.3	2
10	Air Pollution in New Delhi during Late Winter: An Overview of a Group of Campaign Studies Focusing on Composition and Sources. <i>Atmosphere</i> , 2021 , 12, 1432	2.7	2
9	Detection and quantification of enteric pathogens in aerosols near open wastewater canals in cities with poor sanitation		2
8	Interaction of cesium bound fission product compounds (CsI and CsOH) with abundant inorganic compounds of atmosphere: Effect on hygroscopic growth properties. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126356	12.8	2
7	Few-shot calibration of low-cost air pollution (PM _{2.5}) sensors using meta-learning 2022 , 1-1		2
6	Remote Sensing of Atmospheric Aerosols 2014 , 119-151		1
5	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures 2010 , 115,		1
4	Proliferation of Lung Epithelial Cells Is Regulated by the Mechanisms of Autophagy Upon Exposure of Soots. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 662597	5.7	1
3	SATVAM: Toward an IoT Cyber-Infrastructure for Low-Cost Urban Air Quality Monitoring 2019 ,		1
2	Evolution of size and composition of fine particulate matter in the Delhi megacity during later winter. <i>Atmospheric Environment</i> , 2021 , 267, 118752	5.3	1
1	Effect of charge on aerosol microphysics of particles emitted from a hot wire generator: Theory and experiments. <i>Aerosol Science and Technology</i> , 2021 , 55, 1084-1098	3.4	0