

# Sagnik Dey

## List of Publications by Citations

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97  
papers

4,491  
citations

35  
h-index

66  
g-index

114  
ext. papers

5,619  
ext. citations

7.5  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
97	Nations within a nation: variations in epidemiological transition across the states of India, 1990-2016 in the Global Burden of Disease Study. <i>Lancet, The</i> , <b>2017</b> , 390, 2437-2460	40	391
96	The impact of air pollution on deaths, disease burden, and life expectancy across the states of India: the Global Burden of Disease Study 2017. <i>Lancet Planetary Health, The</i> , <b>2019</b> , 3, e26-e39	9.8	335
95	Variability of aerosol parameters over Kanpur, northern India. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		304
94	Influence of dust storms on the aerosol optical properties over the Indo-Gangetic basin. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		288
93	A climatology of aerosol optical and microphysical properties over the Indian subcontinent from 9 years (2000-2008) of Multiangle Imaging Spectroradiometer (MISR) data. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		196
92	Variability of outdoor fine particulate (PM <sub>2.5</sub> ) concentration in the Indian Subcontinent: A remote sensing approach. <i>Remote Sensing of Environment</i> , <b>2012</b> , 127, 153-161	13.2	167
91	Comparison of MODIS and AERONET derived aerosol optical depth over the Ganga Basin, India. <i>Annales Geophysicae</i> , <b>2005</b> , 23, 1093-1101	2	143
90	Cause-specific premature death from ambient PM <sub>2.5</sub> exposure in India: Estimate adjusted for baseline mortality. <i>Environment International</i> , <b>2016</b> , 91, 283-90	12.9	130
89	The burden of chronic respiratory diseases and their heterogeneity across the states of India: the Global Burden of Disease Study 1990-2016. <i>The Lancet Global Health</i> , <b>2018</b> , 6, e1363-e1374	13.6	122
88	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> , <b>2008</b> , 113,		103
87	Aerosol black carbon radiative forcing at an industrial city in northern India. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	94
86	Indian annual ambient air quality standard is achievable by completely mitigating emissions from household sources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 10711-10716	11.5	93
85	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> , <b>2006</b> , 111,		93
84	Dust events in Kanpur, northern India: Chemical evidence for source and implications to radiative forcing. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	91
83	Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. <i>Nature</i> , <b>2019</b> , 574, 353-358.	358.4	87
82	Ambient PM exposure and expected premature mortality to 2100 in India under climate change scenarios. <i>Nature Communications</i> , <b>2018</b> , 9, 318	17.4	85
81	Inferring aerosol types over the Indo-Gangetic Basin from ground based sunphotometer measurements. <i>Atmospheric Research</i> , <b>2012</b> , 109-110, 64-75	5.4	79

80	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> , <b>2006</b> , 111,		78
79	Health and economic impact of air pollution in the states of India: the Global Burden of Disease Study 2019. <i>Lancet Planetary Health, The</i> , <b>2021</b> , 5, e25-e38	9.8	78
78	A decade of change in aerosol properties over the Indian subcontinent. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	77
77	Influence of aerosol composition on visibility in megacity Delhi. <i>Atmospheric Environment</i> , <b>2012</b> , 62, 367-373	3.3	68
76	Estimation of aerosol optical properties and radiative effects in the Ganga basin, northern India, during the wintertime. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		68
75	The vertical profile of atmospheric heating rate of black carbon aerosols at Kanpur in northern India. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 6909-6915	5.3	68
74	Global warming and local air pollution have reduced wheat yields in India. <i>Climatic Change</i> , <b>2017</b> , 140, 593-604	4.5	66
73	Traffic intervention policy fails to mitigate air pollution in megacity Delhi. <i>Environmental Science and Policy</i> , <b>2017</b> , 74, 8-13	6.2	58
72	Tracking ambient PM2.5 build-up in Delhi national capital region during the dry season over 15 years using a high-resolution (1 km) satellite aerosol dataset. <i>Atmospheric Environment</i> , <b>2019</b> , 204, 142-150	5.0	57
71	Probable mixing state of aerosols in the Indo-Gangetic Basin, northern India. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	53
70	Examining mineral dust transport over the Indian subcontinent using the regional climate model, RegCM4.1. <i>Atmospheric Research</i> , <b>2013</b> , 134, 64-76	5.4	44
69	Global, regional, and national progress towards Sustainable Development Goal 3.2 for neonatal and child health: all-cause and cause-specific mortality findings from the Global Burden of Disease Study 2019. <i>Lancet, The</i> , <b>2021</b> , 398, 870-905	4.0	43
68	Dust aerosol feedback on the Indian summer monsoon: Sensitivity to absorption property. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 9642-9652	4.4	42
67	Air pollution health research priorities for India: Perspectives of the Indo-U.S. Communities of Researchers. <i>Environment International</i> , <b>2018</b> , 119, 100-108	12.9	41
66	Subnational mapping of under-5 and neonatal mortality trends in India: the Global Burden of Disease Study 2000-17. <i>Lancet, The</i> , <b>2020</b> , 395, 1640-1658	4.0	38
65	Enhanced layer of black carbon in a north Indian industrial city. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	37
64	Comparison of chlorophyll distributions in the northeastern Arabian Sea and southern Bay of Bengal using IRS-P4 Ocean Color Monitor data. <i>Remote Sensing of Environment</i> , <b>2003</b> , 85, 424-428	13.2	37
63	Retrieval of black carbon and specific absorption over Kanpur city, northern India during 2001-2003 using AERONET data. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 445-456	5.3	35

62	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> , <b>2011</b> , 63, 971-989	3.3	34
61	Aerosol indirect effect over Indo-Gangetic plain. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 7037-7047	5.3	31
60	Implications of particle composition and shape to dust radiative effect: A case study from the Great Indian Desert. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	30
59	Examination of monitoring approaches for ambient air pollution: A case study for India. <i>Atmospheric Environment</i> , <b>2019</b> , 216, 116940	5.3	29
58	Impacts of aerosols on dynamics of Indian summer monsoon using a regional climate model. <i>Climate Dynamics</i> , <b>2015</b> , 44, 1685-1697	4.2	27
57	No one knows which city has the highest concentration of fine particulate matter. <i>Atmospheric Environment: X</i> , <b>2019</b> , 3, 100040	2.8	26
56	The association of early-life exposure to ambient PM and later-childhood height-for-age in India: an observational study. <i>Environmental Health</i> , <b>2019</b> , 18, 62	6	26
55	Anomalous increase of chlorophyll concentrations associated with earthquakes. <i>Advances in Space Research</i> , <b>2006</b> , 37, 671-680	2.4	26
54	Satellite-based estimates of outdoor particulate pollution (PM10) for Agra City in northern India. <i>Air Quality, Atmosphere and Health</i> , <b>2015</b> , 8, 55-65	5.6	23
53	A satellite-based 13-year climatology of net cloud radiative forcing over the Indian monsoon region. <i>Atmospheric Research</i> , <b>2016</b> , 182, 76-86	5.4	23
52	Satellite-observed relationships between aerosol and trade-wind cumulus cloud properties over the Indian Ocean. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	23
51	Expected health benefits from mitigation of emissions from major anthropogenic PM sources in India: Statistics at state level. <i>Environmental Pollution</i> , <b>2018</b> , 242, 1817-1826	9.3	20
50	Scale effect on statistics of the macrophysical properties of trade wind cumuli over the tropical western Atlantic during RICO. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		20
49	Ambient PM exposure and premature mortality burden in the holy city Varanasi, India. <i>Environmental Pollution</i> , <b>2017</b> , 226, 182-189	9.3	18
48	Structural evolution of monsoon clouds in the Indian CTCZ. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 5295-5299	4.9	18
47	Examination of direct cumulus contamination on MISR-retrieved aerosol optical depth and angstrom coefficient over ocean. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	18
46	Aerosol characteristics over Delhi national capital region: a satellite view. <i>International Journal of Remote Sensing</i> , <b>2014</b> , 35, 5036-5052	3.1	17
45	Seasonal Transition in PM Exposure and Associated All-Cause Mortality Risks in India. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 8756-8763	10.3	16

44	Direct radiative effects of anthropogenic aerosols on Indian summer monsoon circulation. <i>Theoretical and Applied Climatology</i> , <b>2016</b> , 124, 629-639	3	14
43	The role of land surface schemes in the regional climate model (RegCM) for seasonal scale simulations over Western Himalaya. <i>Atmosfera</i> , <b>2015</b> , 28, 129-142	2.5	14
42	A Satellite-Based High-Resolution (1-km) Ambient PM <sub>2.5</sub> Database for India over Two Decades (2000-2019): Applications for Air Quality Management. <i>Remote Sensing</i> , <b>2020</b> , 12, 3872	5	14
41	On the theoretical aspects of improved fog detection and prediction in India. <i>Atmospheric Research</i> , <b>2018</b> , 202, 77-80	5.4	14
40	Projection of near-future anthropogenic PM <sub>2.5</sub> over India using statistical approach. <i>Atmospheric Environment</i> , <b>2018</b> , 186, 178-188	5.3	14
39	Spatio-temporal variations in the estimation of PM <sub>10</sub> from MODIS-derived aerosol optical depth for the urban areas in the Central Indo-Gangetic Plain. <i>Meteorology and Atmospheric Physics</i> , <b>2015</b> , 127, 107-121	2	13
38	Changing risk factors that contribute to premature mortality from ambient air pollution between 2000 and 2015. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 074010	6.2	13
37	18-Year Ambient PM <sub>2.5</sub> Exposure and Night Light Trends in Indian Cities: Vulnerability Assessment. <i>Aerosol and Air Quality Research</i> , <b>2018</b> , 18, 2332-2342	4.6	13
36	A study to improve night time fog detection in the Indo-Gangetic Basin using satellite data and to investigate the connection to aerosols. <i>Meteorological Applications</i> , <b>2015</b> , 22, 689-693	2.1	11
35	Most probable mixing state of aerosols in Delhi NCR, northern India. <i>Atmospheric Research</i> , <b>2018</b> , 200, 88-96	5.4	11
34	Comparative Study of Heat Indices in India Based on Observed and Model Simulated Data. <i>Current World Environment Journal</i> , <b>2017</b> , 12, 530-546	0.7	10
33	Anemia prevalence in women of reproductive age in low- and middle-income countries between 2000 and 2018. <i>Nature Medicine</i> , <b>2021</b> , 27, 1761-1782	50.5	10
32	Performance of MODIS C6.1 Dark Target and Deep Blue aerosol products in Delhi National Capital Region, India: Application for aerosol studies. <i>Atmospheric Pollution Research</i> , <b>2021</b> , 12, 65-74	4.5	9
31	The Association Between Ambient PM Exposure and Anemia Outcomes Among Children Under Five Years of Age in India. <i>Environmental Epidemiology</i> , <b>2021</b> , 5, e125	0.2	9
30	Cloud climatology over the oceanic regions adjacent to the Indian Subcontinent: inter-comparison between passive and active sensors. <i>International Journal of Remote Sensing</i> , <b>2015</b> , 36, 899-916	3.1	8
29	Aerosol Characteristics over the Indo-Gangetic Basin: Implications to Regional Climate <b>2012</b> ,		8
28	Importance of aerosol non-sphericity in estimating aerosol radiative forcing in Indo-Gangetic Basin. <i>Science of the Total Environment</i> , <b>2017</b> , 599-600, 655-662	10.2	8
27	Suppression of aerosol-induced atmospheric warming by clouds in the Indo-Gangetic Basin, northern India. <i>Theoretical and Applied Climatology</i> , <b>2019</b> , 137, 2731-2741	3	8

26	Near-Future Anthropogenic Aerosol Emission Scenarios and Their Direct Radiative Effects on the Present-Day Characteristics of the Indian Summer Monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031414	4.4	7
25	Dynamical downscaling approach for wintertime seasonal-scale simulation over the Western Himalayas. <i>Acta Geophysica</i> , <b>2014</b> , 62, 930-952	2.2	7
24	Consistent signal of aerosol indirect and semi-direct effect on water clouds in the oceanic regions adjacent to the Indian subcontinent. <i>Atmospheric Research</i> , <b>2020</b> , 232, 104677	5.4	6
23	A comparative assessment of regional representativeness of EDGAR and ECLIPSE emission inventories for air quality studies in India. <i>Atmospheric Environment</i> , <b>2020</b> , 223, 117182	5.3	6
22	Satellite-Based Estimates of Aerosol Washout and Recovery over India during Monsoon. <i>Aerosol and Air Quality Research</i> , <b>2016</b> , 16, 1302-1314	4.6	6
21	A framework for setting up a country-wide network of regional surface PM <sub>2.5</sub> sampling sites utilising a satellite-derived proxy The COALESCE project, India. <i>Atmospheric Environment</i> , <b>2020</b> , 234, 117544	5.3	5
20	Quantifying enhancement in aerosol radiative forcing during 'extreme aerosol days' in summer at Delhi National Capital Region, India. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 994-1000	10.2	5
19	Diurnal patterns in ambient PM <sub>2.5</sub> exposure over India using MERRA-2 reanalysis data. <i>Atmospheric Environment</i> , <b>2021</b> , 248, 118180	5.3	5
18	Air Quality in Changing Climate: Implications for Health Impacts. <i>Springer Climate</i> , <b>2018</b> , 9-24	0.3	4
17	Tracking NO <sub>2</sub> emission from thermal power plants in North India using TROPOMI data. <i>Atmospheric Environment</i> , <b>2021</b> , 259, 118514	5.3	4
16	A review of statistical methods used for developing large-scale and long-term PM <sub>2.5</sub> models from satellite data. <i>Remote Sensing of Environment</i> , <b>2021</b> , 269, 112827	13.2	3
15	Inter-annual variations in natural and anthropogenic aerosol loadings over the seas adjoining India using a hybrid approach. <i>Atmospheric Science Letters</i> , <b>2014</b> , 15, 58-64	2.4	2
14	Satellite-based 3D structure of cloud and aerosols over the Indian Monsoon region: implications for aerosol-cloud interaction <b>2012</b> ,		2
13	Systematizing the approach to air quality measurement and analysis in low and middle income countries. <i>Environmental Research Letters</i> , <b>2022</b> , 17, 021004	6.2	2
12	Long-term changes in aerosol loading over the BIHAR State of India using nineteen years (2001-2019) of high-resolution satellite data (1 km <sup>2</sup> ). <i>Atmospheric Pollution Research</i> , <b>2022</b> , 13, 101259	4.5	2
11	Robust relationship between ambient air pollution and infant mortality in India.. <i>Science of the Total Environment</i> , <b>2022</b> , 815, 152755	10.2	2
10	Tradeoffs between air pollution mitigation and meteorological response in India. <i>Scientific Reports</i> , <b>2020</b> , 10, 14796	4.9	2
9	Remote Sensing of Atmospheric Aerosols <b>2014</b> , 119-151		1

8	Child Survival and Early Lifetime Exposures to Ambient Fine Particulate Matter in India: A Retrospective Cohort Study.. <i>Environmental Health Perspectives</i> , <b>2022</b> , 130, 17009	8.4	1
7	The Reduction in Near-Global Cloud Cover After Correcting for Biases Caused by Finite Resolution Measurements. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090313	4.9	1
6	Crop Fires and Cardiovascular Health - A Study from North India. <i>SSM - Population Health</i> , <b>2021</b> , 14, 100753	3.8	1
5	Crop burning and forest fires: Long-term effect on adolescent height in India. <i>Resources and Energy Economics</i> , <b>2021</b> , 65, 101244	3.2	1
4	Aerosol-modulated heat stress in present and future climate of India. <i>Environmental Research Letters</i> ,	6.2	0
3	Impact of acute exposure to ambient PM2.5 on non-trauma all-cause mortality in the megacity Delhi. <i>Atmospheric Environment</i> , <b>2021</b> , 259, 118548	5.3	0
2	Sensitivity of Carbonaceous Aerosol Properties to the Implementation of a Dynamic Aging Parameterization in the Regional Climate Model RegCM. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033613	4.4	0
1	Air quality management in India using satellite data <b>2022</b> , 239-254		0