

Baerbel Sinha

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

3,596
citations

218592

26
h-index

233338

45
g-index

59
all docs

59
docs citations

59
times ranked

4773
citing authors

#	ARTICLE	IF	CITATIONS
1	Will open waste burning become India's largest air pollution source?. Environmental Pollution, 2022, 292, 118310.	3.7	12
2	Residential heating emissions (can) exceed paddy-residue burning emissions in rural northwest India. Atmospheric Environment, 2022, 269, 118846.	1.9	5
3	Enhanced secondary aerosol formation driven by excess ammonia during fog episodes in Delhi, India. Chemosphere, 2022, 289, 133155.	4.2	19
4	Air pollution scenario analyses of fleet replacement strategies to accomplish reductions in criteria air pollutants and 74 VOCs over India. Atmospheric Environment: X, 2022, 13, 100150.	0.8	7
5	Cropland trees need to be included for accurate model simulations of land-atmosphere heat fluxes, temperature, boundary layer height, and ozone. Science of the Total Environment, 2021, 751, 141728.	3.9	5
6	Appraisal of regional haze event and its relationship with PM _{2.5} concentration, crop residue burning and meteorology in Chandigarh, India. Chemosphere, 2021, 273, 128562.	4.2	32
7	RTEII: A new high-resolution (0.1° × 0.1°) road transport emission inventory for India of 74 specified NMVOCs, CO, NO _x , NH ₃ , CH ₄ , CO ₂ , PM _{2.5} reveals massive overestimation of NO _x and CO and missing nitromethane emissions by existing inventories. Atmospheric Environment: X, 2021, 11, 100118.	0.8	8
8	Gridded 1 km × 1 km emission inventory for paddy stubble burning emissions over north-west India constrained by measured emission factors of 77 VOCs and district-wise crop yield data. Science of the Total Environment, 2021, 789, 148064.	3.9	25
9	Underreporting and open burning – the two largest challenges for sustainable waste management in India. Resources, Conservation and Recycling, 2021, 175, 105865.	5.3	21
10	A new index to assess the air quality impact of urban tree plantation. Urban Climate, 2021, 40, 100995.	2.4	5
11	How Much Does Large-Scale Crop Residue Burning Affect the Air Quality in Delhi?. Environmental Science & Technology, 2020, 54, 4790-4799.	4.6	70
12	Significant emissions of dimethyl sulfide and monoterpenes by big-leaf mahogany trees: discovery of a missing dimethyl sulfide source to the atmospheric environment. Atmospheric Chemistry and Physics, 2020, 20, 375-389.	1.9	18
13	Humidity, density, and inlet aspiration efficiency correction improve accuracy of a low-cost sensor during field calibration at a suburban site in the North-Western Indo-Gangetic plain (NW-IGP). Aerosol Science and Technology, 2020, 54, 685-703.	1.5	11
14	Volatile organic compound measurements point to fog-induced biomass burning feedback to air quality in the megacity of Delhi. Science of the Total Environment, 2019, 689, 295-304.	3.9	27
15	Gridded Emissions of CO, NO _x , SO ₂ , CO ₂ , NH ₃ , HCl, CH ₄ , PM _{2.5} , PM ₁₀ , BC, and NMVOC from Open Municipal Waste Burning in India. Environmental Science & Technology, 2019, 53, 4765-4774.	4.6	71
16	Source apportionment of volatile organic compounds in the northwest Indo-Gangetic Plain using a positive matrix factorization model. Atmospheric Chemistry and Physics, 2019, 19, 15467-15482.	1.9	40
17	Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation. Elementa, 2018, 6, .	1.1	212
18	Storage stability studies and field application of low cost glass flasks for analyses of thirteen ambient VOCs using proton transfer reaction mass spectrometry. International Journal of Mass Spectrometry, 2017, 419, 11-19.	0.7	19

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19	Determining the contribution of long-range transport, regional and local source areas, to PM10 mass loading in Hessen, Germany using a novel multi-receptor based statistical approach. Atmospheric Environment, 2017, 167, 566-575.	1.9	12
20	Source apportionment of NMVOCs in the Kathmandu Valley during the SusKat-ABC international field campaign using positive matrix factorization. Atmospheric Chemistry and Physics, 2017, 17, 8129-8156.	1.9	73
21	Nitrogen isotope analysis of NaNO ₃ and KNO ₃ by nano secondary ion mass spectrometry using the ¹⁵ N/ ¹⁶ O ²⁺ / ¹⁴ N/ ¹⁶ O ²⁺ ratio. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, 030601.	0.6	2
22	Speciation of Nitrogen-Bearing Species Using Negative and Positive Secondary Ion Spectra with Nano Secondary Ion Mass Spectrometry. Analytical Chemistry, 2016, 88, 3281-3288.	3.2	11
23	Limitation of the Use of the Absorption Angstrom Exponent for Source Apportionment of Equivalent Black Carbon: a Case Study from the North West Indo-Gangetic Plain. Environmental Science & Technology, 2016, 50, 814-824.	4.6	69
24	Quantifying the contribution of long-range transport to particulate matter (PM) mass loadings at a suburban site in the north-western Indo-Gangetic Plain (NW-IGP). Atmospheric Chemistry and Physics, 2015, 15, 9501-9520.	1.9	50
25	Assessment of crop yield losses in Punjab and Haryana using 2 years of continuous in situ ozone measurements. Atmospheric Chemistry and Physics, 2015, 15, 9555-9576.	1.9	93
26	Recovery of consumer waste in India – A mass flow analysis for paper, plastic and glass and the contribution of households and the informal sector. Resources, Conservation and Recycling, 2015, 101, 167-181.	5.3	79
27	Influence of cloud processing on CCN activation behaviour in the Thuringian Forest, Germany during HCCT-2010. Atmospheric Chemistry and Physics, 2014, 14, 7859-7868.	1.9	27
28	In-cloud sulfate addition to single particles resolved with sulfur isotope analysis during HCCT-2010. Atmospheric Chemistry and Physics, 2014, 14, 4219-4235.	1.9	31
29	High-Precision Measurements of ³³ S and ³⁴ S Fractionation during SO ₂ Oxidation Reveal Causes of Seasonality in SO ₂ and Sulfate Isotopic Composition. Environmental Science & Technology, 2013, 47, 12174-12183.	4.6	56
30	Enhanced Role of Transition Metal Ion Catalysis During In-Cloud Oxidation of SO ₂ . Science, 2013, 340, 727-730.	6.0	286
31	High concentrations of biological aerosol particles and ice nuclei during and after rain. Atmospheric Chemistry and Physics, 2013, 13, 6151-6164.	1.9	355
32	Size distributions and temporal variations of biological aerosol particles in the Amazon rainforest characterized by microscopy and real-time UV-APS fluorescence techniques during AMAZE-08. Atmospheric Chemistry and Physics, 2012, 12, 11997-12019.	1.9	187
33	Fractionation of sulfur isotopes during heterogeneous oxidation of SO ₂ on sea salt aerosol: a new tool to investigate non-sea salt sulfate production in the marine boundary layer. Atmospheric Chemistry and Physics, 2012, 12, 4619-4631.	1.9	22
34	Sulfur isotope fractionation during heterogeneous oxidation of SO ₂ on mineral dust. Atmospheric Chemistry and Physics, 2012, 12, 4867-4884.	1.9	54
35	Sulfur isotope fractionation during oxidation of sulfur dioxide: gas-phase oxidation by OH radicals and aqueous oxidation by H ₂ O ₂ , O ₃ , and iron catalysis. Atmospheric Chemistry and Physics, 2012, 12, 407-423.	1.9	74
36	Biogenic Potassium Salt Particles as Seeds for Secondary Organic Aerosol in the Amazon. Science, 2012, 337, 1075-1078.	6.0	188

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37	Siliceous deep-sea sponge <i>Monorhaphis chuni</i> : A potential paleoclimate archive in ancient animals. <i>Chemical Geology</i> , 2012, 300-301, 143-151.	1.4	42
38	NanoSIMS: Insights into the Organization of the Proteinaceous Scaffold within Hexactinellid Sponge Spicules. <i>ChemBioChem</i> , 2010, 11, 1077-1082.	1.3	30
39	Rainforest Aerosols as Biogenic Nuclei of Clouds and Precipitation in the Amazon. <i>Science</i> , 2010, 329, 1513-1516.	6.0	541
40	Co-occurrence of denitrification and nitrogen fixation in a meromictic lake, Lake Cadagno (Switzerland). <i>Environmental Microbiology</i> , 2009, 11, 1945-1958.	1.8	119
41	Co-occurrence of denitrification and nitrogen fixation in a meromictic lake, Lake Cadagno (Switzerland). <i>Environmental Microbiology</i> , 2009, 11, 2190-2190.	1.8	75
42	Sulfur isotope ratio measurements of individual sulfate particles by NanoSIMS. <i>International Journal of Mass Spectrometry</i> , 2008, 272, 63-77.	0.7	46
43	A single-cell view on the ecophysiology of anaerobic phototrophic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17861-17866.	3.3	388
44	Sulfur isotope analyses of individual aerosol particles in the urban aerosol at a central European site (Mainz, Germany). <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7217-7238.	1.9	46
45	Measurement of sulfur isotope ratios in micrometer-sized samples by NanoSIMS. <i>Applied Surface Science</i> , 2006, 252, 7128-7131.	3.1	32