Baerbel Sinha

List of Publications by Year
in descending order

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Version: 2024-02-01

45	3,596	218592	233338
papers	citations	26 h-index	45 g-index

59	59	59	4773
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rainforest Aerosols as Biogenic Nuclei of Clouds and Precipitation in the Amazon. Science, 2010, 329, 1513-1516.	6.0	541
2	A single-cell view on the ecophysiology of anaerobic phototrophic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17861-17866.	3.3	388
3	High concentrations of biological aerosol particles and ice nuclei during and after rain. Atmospheric Chemistry and Physics, 2013, 13, 6151-6164.	1.9	355
4	Enhanced Role of Transition Metal Ion Catalysis During In-Cloud Oxidation of SO ₂. Science, 2013, 340, 727-730.	6.0	286
5	Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation. Elementa, 2018, 6, .	1.1	212
6	Biogenic Potassium Salt Particles as Seeds for Secondary Organic Aerosol in the Amazon. Science, 2012, 337, 1075-1078.	6.0	188
7	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
8	Coâ€occurrence of denitrification and nitrogen fixation in a meromictic lake, Lake Cadagno (Switzerland). Environmental Microbiology, 2009, 11, 1945-1958.	1.8	119
9	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
10	Recovery of consumer waste in India â€“ 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
11	Co-occurrence of denitrification and nitrogen fixation in a meromictic lake, Lake Cadagno (Switzerland). Environmental Microbiology, 2009, 11, 2190-2190.	1.8	75
12	Sulfur isotope fractionation during oxidation of sulfur dioxide: gas-phase oxidation by OH radicals and aqueous oxidation by H₂O₂, O₃ and iron catalysis. Atmospheric Chemistry and Physics, 2012, 12, 407-423.	1.9	74
13	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
14	Gridded Emissions of CO, NO_x, SO₂, CO₂, NH₃, HCl, CH₄, PM_{2.5}, PM₁₀, BC, and NMVOC from Open Municipal Waste Burning in India. Environmental Science & Technology, 2019, 53, 4765-4774.	4.6	71
15	How Much Does Large-Scale Crop Residue Burning Affect the Air Quality in Delhi?. Environmental Science & Technology, 2020, 54, 4790-4799.	4.6	70
16	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
17	High-Precision Measurements of ³³S and ³⁴S Fractionation during SO₂ Oxidation Reveal Causes of Seasonality in SO₂ and Sulfate Isotopic Composition. Environmental Science & Technology, 2013, 47, 12174-12183.	4.6	56
18	Sulfur isotope fractionation during heterogeneous oxidation of SO₂ on mineral dust. Atmospheric Chemistry and Physics, 2012, 12, 4867-4884.	1.9	54

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19	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
20	Sulfur isotope ratio measurements of individual sulfate particles by NanoSIMS. International Journal of Mass Spectrometry, 2008, 272, 63-77.	0.7	46
21	Sulfur isotope analyses of individual aerosol particles in the urban aerosol at a central European site (Mainz, Germany). Atmospheric Chemistry and Physics, 2008, 8, 7217-7238.	1.9	46
22	Siliceous deep-sea sponge Monorhaphis chuni: A potential paleoclimate archive in ancient animals. Chemical Geology, 2012, 300-301, 143-151.	1.4	42
23	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
24	Measurement of sulfur isotope ratios in micrometer-sized samples by NanoSIMS. Applied Surface Science, 2006, 252, 7128-7131.	3.1	32
25	Appraisal of regional haze event and its relationship with PM2.5 concentration, crop residue burning and meteorology in Chandigarh, India. Chemosphere, 2021, 273, 128562.	4.2	32
26	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
27	NanoSIMS: Insights into the Organization of the Proteinaceous Scaffold within Hexactinellid Sponge Spicules. ChemBioChem, 2010, 11, 1077-1082.	1.3	30
28	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
29	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
30	Gridded 1 km Ã— 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
31	Fractionation of sulfur isotopes during heterogeneous oxidation of SO₂ 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
32	Underreporting and open burning â€“ the two largest challenges for sustainable waste management in India. Resources, Conservation and Recycling, 2021, 175, 105865.	5.3	21
33	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
34	Enhanced secondary aerosol formation driven by excess ammonia during fog episodes in Delhi, India. Chemosphere, 2022, 289, 133155.	4.2	19
35	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
36	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

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37	Will open waste burning become India's largest air pollution source?. Environmental Pollution, 2022, 292, 118310.	3.7	12
38	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
39	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
40	RTEII: A new high-resolution (0.1Â° Ã— 0.1Â°) road transport emission inventory for India of 74 speciated NMVOCs, CO, NOx, NH3, CH4, CO2, PM2.5 reveals massive overestimation of NOx and CO and missing nitromethane emissions by existing inventories. Atmospheric Environment: X, 2021, 11, 100118.	0.8	8
41	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
42	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
43	A new index to assess the air quality impact of urban tree plantation. Urban Climate, 2021, 40, 100995.	2.4	5
44	Residential heating emissions (can) exceed paddy-residue burning emissions in rural northwest India. Atmospheric Environment, 2022, 269, 118846.	1.9	5
45	Nitrogen isotope analysis of NaNO3 and KNO3 by nano secondary ion mass spectrometry using the 15N16O2â¯/14N16O2â¯ ratio. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 030601.	0.6	2