

Srinivas Bikkina

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,323
citations

257450

24
h-index

214800

47
g-index

58
all docs

58
docs citations

58
times ranked

2240
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of dicarboxylic acids and related compounds in atmospheric aerosols: Molecular distributions, sources and transformation. <i>Atmospheric Research</i> , 2016, 170, 140-160.	4.1	282
2	Air quality in megacity Delhi affected by countryside biomass burning. <i>Nature Sustainability</i> , 2019, 2, 200-205.	23.7	148
3	Pyrogenic iron: The missing link to high iron solubility in aerosols. <i>Science Advances</i> , 2019, 5, eaau7671.	10.3	128
4	Photochemical degradation affects the light absorption of water-soluble brown carbon in the South Asian outflow. <i>Science Advances</i> , 2019, 5, eaau8066.	10.3	123
5	Mass absorption efficiency of light absorbing organic aerosols from source region of paddy-residue burning emissions in the Indo-Gangetic Plain. <i>Atmospheric Environment</i> , 2016, 125, 360-370.	4.1	119
6	PM _{2.5} , EC and OC in atmospheric outflow from the Indo-Gangetic Plain: Temporal variability and aerosol organic carbon-to-organic mass conversion factor. <i>Science of the Total Environment</i> , 2014, 487, 196-205.	8.0	117
7	Brown carbon in atmospheric outflow from the Indo-Gangetic Plain: Mass absorption efficiency and temporal variability. <i>Atmospheric Environment</i> , 2014, 89, 835-843.	4.1	116
8	Aerosol iron solubility over Bay of Bengal: Role of anthropogenic sources and chemical processing. <i>Marine Chemistry</i> , 2010, 121, 167-175.	2.3	110
9	Light absorbing organic aerosols (brown carbon) over the tropical Indian Ocean: impact of biomass burning emissions. <i>Environmental Research Letters</i> , 2013, 8, 044042.	5.2	99
10	High abundances of oxalic, azelaic, and glyoxylic acids and methylglyoxal in the open ocean with high biological activity: Implication for secondary OA formation from isoprene. <i>Geophysical Research Letters</i> , 2014, 41, 3649-3657.	4.0	75
11	Atmospheric dry deposition of inorganic and organic nitrogen to the Bay of Bengal: Impact of continental outflow. <i>Marine Chemistry</i> , 2011, 127, 170-179.	2.3	65
12	Atmospheric dry-deposition of mineral dust and anthropogenic trace metals to the Bay of Bengal. <i>Journal of Marine Systems</i> , 2013, 126, 56-68.	2.1	63
13	Reviews and syntheses: the GESAMP atmospheric iron deposition model intercomparison study. <i>Biogeosciences</i> , 2018, 15, 6659-6684.	3.3	63
14	Atmospheric deposition of N, P and Fe to the Northern Indian Ocean: Implications to C- and N-fixation. <i>Science of the Total Environment</i> , 2013, 456-457, 104-114.	8.0	61
15	Impact of anthropogenic sources on aerosol iron solubility over the Bay of Bengal and the Arabian Sea. <i>Biogeochemistry</i> , 2012, 110, 257-268.	3.5	57
16	Secondary Organic Aerosol Formation over Coastal Ocean: Inferences from Atmospheric Water-Soluble Low Molecular Weight Organic Compounds. <i>Environmental Science & Technology</i> , 2017, 51, 4347-4357.	10.0	52
17	Stable carbon and nitrogen isotopic composition of fine mode aerosols (PM _{2.5}) over the Bay of Bengal: impact of continental sources. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 31518.	1.6	42
18	Carbon isotope-constrained seasonality of carbonaceous aerosol sources from an urban location (Kanpur) in the Indo-Gangetic Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4903-4923.	3.3	42

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19	Anthropogenic sulphate aerosols and large Cl-deficit in marine atmospheric boundary layer of tropical Bay of Bengal. <i>Journal of Atmospheric Chemistry</i> , 2010, 66, 1-10.	3.2	37
20	Latitudinal distributions of atmospheric dicarboxylic acids, oxocarboxylic acids, and α -dicarbonyls over the western North Pacific: Sources and formation pathways. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5010-5035.	3.3	35
21	Source Quantification of South Asian Black Carbon Aerosols with Isotopes and Modeling. <i>Environmental Science & Technology</i> , 2020, 54, 11771-11779.	10.0	34
22	Brown carbon in the continental outflow to the North Indian Ocean. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 970-987.	3.5	33
23	Atmospheric transport of mineral dust from the Indo-Gangetic Plain: Temporal variability, acid processing, and iron solubility. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3226-3243.	2.5	26
24	Dual carbon isotope characterization of total organic carbon in wintertime carbonaceous aerosols from northern India. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4797-4809.	3.3	26
25	Atmospheric pathways of phosphorous to the Bay of Bengal: contribution from anthropogenic sources and mineral dust. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 64, 17174.	1.6	25
26	Hydroxy Fatty Acids in Remote Marine Aerosols over the Pacific Ocean: Impact of Biological Activity and Wind Speed. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 366-379.	2.7	24
27	Low molecular weight dicarboxylic acids, oxocarboxylic acids and α -dicarbonyls as ozonolysis products of isoprene: Implication for the gaseous-phase formation of secondary organic aerosols. <i>Science of the Total Environment</i> , 2021, 769, 144472.	8.0	22
28	Hygroscopic growth of particles nebulized from water-soluble extracts of PM2.5 aerosols over the Bay of Bengal: Influence of heterogeneity in air masses and formation pathways. <i>Science of the Total Environment</i> , 2016, 544, 661-669.	8.0	21
29	Chemical characterization of wintertime aerosols over the Arabian Sea: Impact of marine sources and long-range transport. <i>Atmospheric Environment</i> , 2020, 239, 117749.	4.1	21
30	Homologous series of low molecular weight (C1-C10) monocarboxylic acids, benzoic acid and hydroxyacids in fine-mode (PM2.5) aerosols over the Bay of Bengal: Influence of heterogeneity in air masses and formation pathways. <i>Atmospheric Environment</i> , 2017, 167, 170-180.	4.1	20
31	Anthropogenic fine aerosols dominate the wintertime regime over the northern Indian Ocean. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 70, 1464871.	1.6	19
32	Tracing the Relative Significance of Primary versus Secondary Organic Aerosols from Biomass Burning Plumes over Coastal Ocean Using Sugar Compounds and Stable Carbon Isotopes. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1471-1484.	2.7	19
33	Sources and Radiative Absorption of Water-Soluble Brown Carbon in the High Arctic Atmosphere. <i>Geophysical Research Letters</i> , 2019, 46, 14881-14891.	4.0	17
34	Seasonal and longitudinal distributions of atmospheric water-soluble dicarboxylic acids, oxocarboxylic acids, and α -dicarbonyls over the North Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5191-5213.	3.3	16
35	Hydroxy fatty acids in snow pit samples from Mount Tateyama in central Japan: Implications for atmospheric transport of microorganisms and plant waxes associated with Asian dust. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,641.	3.3	15
36	Impact of biomass burning on soil microorganisms and plant metabolites: A view from molecular distributions of atmospheric hydroxy fatty acids over Mount Tai. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2684-2699.	3.0	14

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37	Evidence for enhanced chlorophyll-a levels in the Bay of Bengal during early north-east monsoon. <i>Journal of Oceanography and Marine Science</i> , 2018, 9, 15-23.	0.8	13
38	Dry-deposition of inorganic and organic nitrogen aerosols to the Arabian Sea: Sources, transport and biogeochemical significance in surface waters. <i>Marine Chemistry</i> , 2021, 231, 103938.	2.3	13
39	Atmospheric outflow of nutrients to the Bay of Bengal: Impact of anthropogenic sources. <i>Journal of Marine Systems</i> , 2015, 141, 34-44.	2.1	12
40	Source forensics of n-alkanes and n-fatty acids in urban aerosols using compound specific radiocarbon/stable carbon isotopic composition. <i>Environmental Research Letters</i> , 2020, 15, 074007.	5.2	12
41	Regional heterogeneities in the emission of airborne primary sugar compounds and biogenic secondary organic aerosols in the East Asian outflow: evidence for coal combustion as a source of levoglucosan. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1373-1393.	4.9	11
42	Tracing atmospheric transport of soil microorganisms and higher plant waxes in the East Asian outflow to the North Pacific Rim by using hydroxy fatty acids: Year-round observations at Gosan, Jeju Island. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4112-4131.	3.3	10
43	Anthropogenic nitrogen inputs and impacts on oceanic N ₂ O fluxes in the northern Indian Ocean: The need for an integrated observation and modelling approach. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 104-113.	1.4	9
44	Evidence for brown carbon absorption over the Bay of Bengal during the southwest monsoon season: a possible oceanic source. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1743-1758.	3.5	9
45	Atmospheric ²¹⁰ Pb and anthropogenic trace metals in the continental outflow to the Bay of Bengal. <i>Atmospheric Environment</i> , 2015, 122, 737-747.	4.1	8
46	Enhanced Light Absorption of Black Carbon in Rainwater Compared With Aerosols Over the Northern Indian Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031246.	3.3	8
47	Unraveling the sources of atmospheric organic aerosols over the Arabian Sea: Insights from the stable carbon and nitrogen isotopic composition. <i>Science of the Total Environment</i> , 2022, 827, 154260.	8.0	7
48	¹³ C Probing of Ambient Photo-Fenton Reactions Involving Iron and Oxalic Acid: Implications for Oceanic Biogeochemistry. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 964-976.	2.7	6
49	Hydroxy Fatty Acids in Rainwater and Aerosols from Suburban Tokyo in Central Japan: The Impact of Long-Range Transport of Soil Microbes and Plant Waxes. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 257-267.	2.7	4
50	Carbonaceous aerosols and their light absorption properties over the Bay of Bengal during continental outflow. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 72-88.	3.5	2
51	Decadal Variations in Hydroxy Fatty Acids Over Chichijima Island in the North Pacific: Long-Term Seasonal Variability in Plant and Microbial Markers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033347.	3.3	1
52	Unraveling the Sources of Atmospheric Organic Aerosols Over the Arabian Sea: Insights from the Stable Carbon and Nitrogen Isotopic Composition. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0