

# Zhiyuan Cong

## List of Publications by Year in descending order

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108  
papers

5,867  
citations

61945

43  
h-index

82499

72  
g-index

132  
all docs

132  
docs citations

132  
times ranked

4534  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracing the Transboundary Transport of Mercury to the Tibetan Plateau Using Atmospheric Mercury Isotopes. <i>Environmental Science &amp; Technology</i> , 2022, 56, 1568-1577.	4.6	19
2	Trophic Magnification of Short-Chain Per- and Polyfluoroalkyl Substances in a Terrestrial Food Chain from the Tibetan Plateau. <i>Environmental Science and Technology Letters</i> , 2022, 9, 147-152.	3.9	37
3	Black carbon and organic carbon dataset over the Third Pole. <i>Earth System Science Data</i> , 2022, 14, 683-707.	3.7	25
4	<sup>14</sup> C characteristics of organic carbon in the atmosphere and at glacier region of the Tibetan Plateau. <i>Science of the Total Environment</i> , 2022, 832, 155020.	3.9	4
5	Loss and Increase of the Electron Exchange Capacity of Natural Organic Matter during Its Reduction and Reoxidation: The Role of Quinone and Nonquinone Moieties. <i>Environmental Science &amp; Technology</i> , 2022, 56, 6744-6753.	4.6	30
6	Sulfur Isotope Anomalies ( $\delta^{34}\text{S}$ ) in Urban Air Pollution Linked to Mineral-Dust-Associated Sulfate. <i>Environmental Science and Technology Letters</i> , 2022, 9, 604-610.	3.9	6
7	Evidence for Large Amounts of Brown Carbonaceous Tarballs in the Himalayan Atmosphere. <i>Environmental Science and Technology Letters</i> , 2021, 8, 16-23.	3.9	29
8	Fluorescence characteristics of water-soluble organic carbon in atmospheric aerosols. <i>Environmental Pollution</i> , 2021, 268, 115906.	3.7	49
9	Aerosol characteristics at the three poles of the Earth as characterized by Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4849-4868.	1.9	33
10	Ice-Nucleating Particle Concentrations and Sources in Rainwater Over the Third Pole, Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033864.	1.2	0
11	Priorities for the sustainable development of the ecological environment on the Tibetan Plateau. <i>Fundamental Research</i> , 2021, 1, 329-333.	1.6	4
12	Developing an analytical method for free amino acids in atmospheric precipitation using gas chromatography coupled with mass spectrometry. <i>Atmospheric Research</i> , 2021, 256, 105579.	1.8	8
13	Vertical profile of aerosols in the Himalayas revealed by lidar: New insights into their seasonal/diurnal patterns, sources, and transport. <i>Environmental Pollution</i> , 2021, 285, 117686.	3.7	11
14	Formation Mechanisms and Source Apportionments of Airborne Nitrate Aerosols at a Himalayan-Tibetan Plateau Site: Insights from Nitrogen and Oxygen Isotopic Compositions. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12261-12271.	4.6	17
15	Sulfur aerosols in the Arctic, Antarctic, and Tibetan Plateau: Current knowledge and future perspectives. <i>Earth-Science Reviews</i> , 2021, 220, 103753.	4.0	9
16	Impacts of Indian summer monsoon and stratospheric intrusion on air pollutants in the inland Tibetan Plateau. <i>Geoscience Frontiers</i> , 2021, 12, 101255.	4.3	13
17	Light absorption, fluorescence properties and sources of brown carbon aerosols in the Southeast Tibetan Plateau. <i>Environmental Pollution</i> , 2020, 257, 113616.	3.7	45
18	Chemical components and distributions of aerosols in the Third Pole. , 2020, , 43-67.		2

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19	In Situ Observations of Light-Absorbing Carbonaceous Aerosols at Himalaya: Analysis of the South Asian Sources and Trans-Himalayan Valleys Transport Pathways. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032615.	1.2	17
20	Arctic sea-ice loss intensifies aerosol transport to the Tibetan Plateau. <i>Nature Climate Change</i> , 2020, 10, 1037-1044.	8.1	68
21	Mercury variation and export in trans-Himalayan rivers: Insights from field observations in the Koshi River. <i>Science of the Total Environment</i> , 2020, 738, 139836.	3.9	12
22	Aerosol characteristics and impacts on weather and climate over the Tibetan Plateau. <i>National Science Review</i> , 2020, 7, 492-495.	4.6	128
23	Impact of topography on black carbon transport to the southern Tibetan Plateau during the pre-monsoon season and its climatic implication. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5923-5943.	1.9	25
24	Trophic Dilution of Short-Chain Chlorinated Paraffins in a Plant-Plateau Pika-Eagle Food Chain from the Tibetan Plateau. <i>Environmental Science &amp; Technology</i> , 2019, 53, 9472-9480.	4.6	39
25	Carbonaceous aerosol characteristics on the Third Pole: A primary study based on the Atmospheric Pollution and Cryospheric Change (APCC) network. <i>Environmental Pollution</i> , 2019, 253, 49-60.	3.7	64
26	Nitrogen Speciation and Isotopic Composition of Aerosols Collected at Himalayan Forest (3326 m). <i>Environmental Science &amp; Technology</i> , 2019, 53, 12247-12256.	4.6	27
27	Accumulation of Atmospheric Mercury in Glacier Cryoconite over Western China. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6632-6639.	4.6	23
28	Historical Black Carbon Reconstruction from the Lake Sediments of the Himalayan-Tibetan Plateau. <i>Environmental Science &amp; Technology</i> , 2019, 53, 5641-5651.	4.6	39
29	Aerosol optical depth climatology over Central Asian countries based on Aqua-MODIS Collection 6.1 data: Aerosol variations and sources. <i>Atmospheric Environment</i> , 2019, 207, 205-214.	1.9	58
30	Identification of absorbing aerosol types at a site in the northern edge of Indo-Gangetic Plain and a polluted valley in the foothills of the central Himalayas. <i>Atmospheric Research</i> , 2019, 223, 15-23.	1.8	44
31	Molecular characterization of organic aerosols in the Kathmandu Valley, Nepal: insights into primary and secondary sources. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2725-2747.	1.9	41
32	Water-Soluble Brown Carbon in Atmospheric Aerosols from Godavari (Nepal), a Regional Representative of South Asia. <i>Environmental Science &amp; Technology</i> , 2019, 53, 3471-3479.	4.6	115
33	Linking atmospheric pollution to cryospheric change in the Third Pole region: current progress and future prospects. <i>National Science Review</i> , 2019, 6, 796-809.	4.6	271
34	Persistent organic pollutants in the polar regions and the Tibetan Plateau: A review of current knowledge and future prospects. <i>Environmental Pollution</i> , 2019, 248, 191-208.	3.7	71
35	Aerosol Properties Over Tibetan Plateau From a Decade of AERONET Measurements: Baseline, Types, and Influencing Factors. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13357-13374.	1.2	37
36	Spatiotemporal variation of aerosol and potential long-range transport impact over the Tibetan Plateau, China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14637-14656.	1.9	36

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37	Estimation of background concentration of PM in Beijing using a statistical integrated approach. Atmospheric Pollution Research, 2019, 10, 858-867.	1.8	17
38	Understanding Mercury Cycling in Tibetan Glacierized Mountain Environment: Recent Progress and Remaining Gaps. Bulletin of Environmental Contamination and Toxicology, 2019, 102, 672-678.	1.3	7
39	Air Pollution in the Hindu Kush Himalaya. , 2019, , 339-387.		31
40	Levoglucosan as a tracer of biomass burning: Recent progress and perspectives. Atmospheric Research, 2019, 220, 20-33.	1.8	144
41	Aromatic acids as biomass-burning tracers in atmospheric aerosols and ice cores: A review. Environmental Pollution, 2019, 247, 216-228.	3.7	32
42	The transboundary transport of air pollutants and their environmental impacts on Tibetan Plateau. Chinese Science Bulletin, 2019, 64, 2876-2884.	0.4	14
43	Review of brown carbon aerosols: Recent progress and perspectives. Science of the Total Environment, 2018, 634, 1475-1485.	3.9	137
44	Estimating representative background PM <sub>2.5</sub> concentration in heavily polluted areas using baseline separation technique and chemical mass balance model. Atmospheric Environment, 2018, 174, 180-187.	1.9	13
45	The first validation of the precipitable water vapor of multisensor satellites over the typical regions in China. Remote Sensing of Environment, 2018, 206, 107-122.	4.6	45
46	Observation of optical properties and sources of aerosols at Buddha's birthplace, Lumbini, Nepal: environmental implications. Environmental Science and Pollution Research, 2018, 25, 14868-14881.	2.7	31
47	Mercury speciation and distribution in a glacierized mountain environment and their relevance to environmental risks in the inland Tibetan Plateau. Science of the Total Environment, 2018, 631-632, 270-278.	3.9	13
48	Analysis of a broad range of perfluoroalkyl acids in accipiter feathers: method optimization and their occurrence in Nam Co Basin, Tibetan Plateau. Environmental Geochemistry and Health, 2018, 40, 1877-1886.	1.8	15
49	Iron oxides in the cryoconite of glaciers on the Tibetan Plateau: abundance, speciation and implications. Cryosphere, 2018, 12, 3177-3186.	1.5	18
50	Concentration, temporal variation, and sources of black carbon in the Mt. Everest region retrieved by real-time observation and simulation. Atmospheric Chemistry and Physics, 2018, 18, 12859-12875.	1.9	61
51	Biomass-burning derived aromatic acids in NIST standard reference material 1649b and the environmental implications. Atmospheric Environment, 2018, 185, 180-185.	1.9	7
52	Black carbon and mineral dust in snow cover on the Tibetan Plateau. Cryosphere, 2018, 12, 413-431.	1.5	89
53	Characteristics of PM <sub>2.5</sub> mass concentrations and chemical species in urban and background areas of China: emerging results from the CARE-China network. Atmospheric Chemistry and Physics, 2018, 18, 8849-8871.	1.9	144
54	Humic-Like Substances (HULIS) in Aerosols of Central Tibetan Plateau (Nam Co, 4730 m asl): Abundance, Light Absorption Properties, and Sources. Environmental Science & Technology, 2018, 52, 7203-7211.	4.6	78

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55	Melting glaciers: Hidden hazards. <i>Science</i> , 2017, 356, 495-495.	6.0	24
56	The role of melting alpine glaciers in mercury export and transport: An intensive sampling campaign in the Qugaqie Basin, inland Tibetan Plateau. <i>Environmental Pollution</i> , 2017, 220, 936-945.	3.7	34
57	Characteristics of black carbon in snow from Laohugou No. 12 glacier on the northern Tibetan Plateau. <i>Science of the Total Environment</i> , 2017, 607-608, 1237-1249.	3.9	38
58	Light-absorbing impurities enhance glacier albedo reduction in the southeastern Tibetan plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6915-6933.	1.2	114
59	Chemical characteristics of soluble aerosols over the central Himalayas: insights into spatiotemporal variations and sources. <i>Environmental Science and Pollution Research</i> , 2017, 24, 24454-24472.	2.7	62
60	Surface ozone at Nam Co in the inland Tibetan Plateau: variation, synthesis comparison and regional representativeness. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11293-11311.	1.9	63
61	Background aerosol over the Himalayas and Tibetan Plateau: observed characteristics of aerosol mass loading. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 449-463.	1.9	40
62	Organic molecular tracers in the atmospheric aerosols from Lumbini, Nepal, in the northern Indo-Gangetic Plain: influence of biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8867-8885.	1.9	91
63	Quantifying Light Absorption of Iron Oxides and Carbonaceous Aerosol in Seasonal Snow across Northern China. <i>Atmosphere</i> , 2017, 8, 63.	1.0	12
64	Atmospheric Aerosol Elements over the Inland Tibetan Plateau: Concentration, Seasonality, and Transport. <i>Aerosol and Air Quality Research</i> , 2016, 16, 789-800.	0.9	44
65	Atmospheric particulate mercury in Lhasa city, Tibetan Plateau. <i>Atmospheric Environment</i> , 2016, 142, 433-441.	1.9	34
66	The observation-based relationships between PM <sub>2.5</sub> and AOD over China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,701.	1.2	47
67	Sources of black carbon to the Himalayan Tibetan Plateau glaciers. <i>Nature Communications</i> , 2016, 7, 12574.	5.8	265
68	Investigation of mineral aerosols radiative effects over High Mountain Asia in 1990–2009 using a regional climate model. <i>Atmospheric Research</i> , 2016, 178-179, 484-496.	1.8	48
69	Influence of long-range transboundary transport on atmospheric water vapor mercury collected at the largest city of Tibet. <i>Science of the Total Environment</i> , 2016, 566-567, 1215-1222.	3.9	21
70	Chemical composition of size-segregated aerosols in Lhasa city, Tibetan Plateau. <i>Atmospheric Research</i> , 2016, 174-175, 142-150.	1.8	33
71	Seasonal variation of secondary organic aerosol tracers in Central Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8781-8793.	1.9	68
72	Simulation of carbonaceous aerosols over the Third Pole and adjacent regions: distribution, transportation, deposition, and climatic effects. <i>Climate Dynamics</i> , 2015, 45, 2831-2846.	1.7	95

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73	New insights into trace element wet deposition in the Himalayas: amounts, seasonal patterns, and implications. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2735-2744.	2.7	39
74	The Campaign on Atmospheric Aerosol Research Network of China: CARE-China. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1137-1155.	1.7	115
75	Carbonaceous aerosols on the south edge of the Tibetan Plateau: concentrations, seasonality and sources. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1573-1584.	1.9	213
76	A 500year atmospheric dust deposition retrieved from a Mt. Geladaindong ice core in the central Tibetan Plateau. <i>Atmospheric Research</i> , 2015, 166, 1-9.	1.8	29
77	Penetration of biomass-burning emissions from South Asia through the Himalayas: new insights from atmospheric organic acids. <i>Scientific Reports</i> , 2015, 5, 9580.	1.6	180
78	Distribution and enrichment of mercury in Tibetan lake waters and their relations with the natural environment. <i>Environmental Science and Pollution Research</i> , 2015, 22, 12490-12500.	2.7	20
79	A new isolation method for biomass-burning tracers in snow: Measurements of p-hydroxybenzoic, vanillic, and dehydroabiatic acids. <i>Atmospheric Environment</i> , 2015, 122, 142-147.	1.9	16
80	Size distribution of carbonaceous aerosols at a high-altitude site on the central Tibetan Plateau (Nam Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.8	75
81	Low-molecular-weight organic acids in the Tibetan Plateau: Results from one-year of precipitation samples at the SET station. <i>Atmospheric Environment</i> , 2014, 86, 68-73.	1.9	20
82	Similarities and differences of aerosol optical properties between southern and northern sides of the Himalayas. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3133-3149.	1.9	36
83	Wet precipitation chemistry at a high-altitude site (3,326Âmâ€™a.s.l.) in the southeastern Tibetan Plateau. <i>Environmental Science and Pollution Research</i> , 2013, 20, 5013-5027.	2.7	75
84	Historical Trends of Atmospheric Black Carbon on Tibetan Plateau As Reconstructed from a 150-Year Lake Sediment Record. <i>Environmental Science &amp; Technology</i> , 2013, 47, 2579-2586.	4.6	123
85	Wet deposition of precipitation chemistry during 2005â€“2009 at a remote site (Nam Co Station) in central Tibetan Plateau. <i>Journal of Atmospheric Chemistry</i> , 2012, 69, 187-200.	1.4	35
86	Distribution of PCBs and PBDEs in soils along the altitudinal gradients of Balang Mountain, the east edge of the Tibetan Plateau. <i>Environmental Pollution</i> , 2012, 161, 101-106.	3.7	61
87	Trace elements and lead isotopic composition of PM10 in Lhasa, Tibet. <i>Atmospheric Environment</i> , 2011, 45, 6210-6215.	1.9	82
88	Baseline continental aerosol over the central Tibetan plateau and a case study of aerosol transport from South Asia. <i>Atmospheric Environment</i> , 2011, 45, 7370-7378.	1.9	112
89	Concentration and seasonal variation of 10Be in surface aerosols of Lhasa, Tibet. <i>Science Bulletin</i> , 2010, 55, 2572-2578.	1.7	2
90	Seasonal and spatial variability of microparticles in snowpits on the Tibetan Plateau, China. <i>Journal of Mountain Science</i> , 2010, 7, 15-25.	0.8	8

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91	Elemental and individual particle analysis of atmospheric aerosols from high Himalayas. <i>Environmental Monitoring and Assessment</i> , 2010, 160, 323-335.	1.3	100
92	Atmospheric wet deposition of trace elements to central Tibetan Plateau. <i>Applied Geochemistry</i> , 2010, 25, 1415-1421.	1.4	143
93	Seasonal variations and sources of ambient fossil and biogenic-derived carbonaceous aerosols based on $^{14}\text{C}$ measurements in Lhasa, Tibet. <i>Atmospheric Research</i> , 2010, 96, 553-559.	1.8	43
94	Total suspended particulate matter and toxic elements indoors during cooking with yak dung. <i>Atmospheric Environment</i> , 2009, 43, 4243-4246.	1.9	35
95	Seasonal features of aerosol particles recorded in snow from Mt. Qomolangma (Everest) and their environmental implications. <i>Journal of Environmental Sciences</i> , 2009, 21, 914-919.	3.2	30
96	Aerosol optical properties at Nam Co, a remote site in central Tibetan Plateau. <i>Atmospheric Research</i> , 2009, 92, 42-48.	1.8	93
97	Individual Particle Analysis of Atmospheric Aerosols at Nam Co, Tibetan Plateau. <i>Aerosol and Air Quality Research</i> , 2009, 9, 323-331.	0.9	57
98	Elemental composition in surface snow from the ultra-high elevation area of Mt. Qomolangma (Everest). <i>Science Bulletin</i> , 2008, 53, 289-294.	1.7	17
99	Microscale spatial variability of snowpack: isotopic and chemical heterogeneity of a firn pack at Qomolangma (Mount Everest), central Himalaya. <i>Annals of Glaciology</i> , 2008, 49, 173-178.	2.8	0
100	Elemental composition of aerosol in the Nam Co region, Tibetan Plateau, during summer monsoon season. <i>Atmospheric Environment</i> , 2007, 41, 1180-1187.	1.9	147
101	Spatial and seasonal variations of elemental composition in Mt. Everest (Qomolangma) snow/firn. <i>Atmospheric Environment</i> , 2007, 41, 7208-7218.	1.9	87
102	Distribution of Persistent Organic Pollutants in Soil and Grasses Around Mt. Qomolangma, China. <i>Archives of Environmental Contamination and Toxicology</i> , 2007, 52, 153-162.	2.1	61
103	Concentration level and distribution of polycyclic aromatic hydrocarbons in soil and grass around Mt. Qomolangma, China. <i>Science Bulletin</i> , 2007, 52, 1405-1413.	1.7	38
104	Elemental composition of aerosols collected in the glacier area on Nyainqāntanglha Range, Tibetan Plateau, during summer monsoon season. <i>Science Bulletin</i> , 2007, 52, 3436-3442.	1.7	29
105	The geochemistry of rare earth elements (REE) in acid mine drainage from the Sitai coal mine, Shanxi Province, North China. <i>International Journal of Coal Geology</i> , 2007, 70, 184-192.	1.9	137
106	Gradient distribution of persistent organic contaminants along northern slope of central-Himalayas, China. <i>Science of the Total Environment</i> , 2006, 372, 193-202.	3.9	101
107	The Leaching Behavior of Cadmium, Arsenic, Zinc, and Chlorine in Coal and Its Ash from Coal-Fired Power Plant. <i>Environmental Engineering Science</i> , 2006, 23, 68-76.	0.8	7
108	STUDY OF AEROSOL OPTICAL PROPERTIES OVER TWO SITES IN THE FOOTHILLS OF THE CENTRAL HIMALAYAS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-3, 1493-1497.	0.2	1