

# Yuan Gao

## List of Publications by Year in descending order

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29  
papers

1,203  
citations

430874

18  
h-index

501196

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1658  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrogenic iron: The missing link to high iron solubility in aerosols. <i>Science Advances</i> , 2019, 5, eaau7671.	10.3	128
2	Aeolian iron input to the ocean through precipitation scavenging: A modeling perspective and its implication for natural iron fertilization in the ocean. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	125
3	Characteristics of Chinese aerosols determined by individual-particle analysis. <i>Journal of Geophysical Research</i> , 2001, 106, 18037-18045.	3.3	105
4	Methods for the sampling and analysis of marine aerosols: results from the 2008 GEOTRACES aerosol intercalibration experiment. <i>Limnology and Oceanography: Methods</i> , 2013, 11, 62-78.	2.0	100
5	Chemical characteristics of precipitation at metropolitan Newark in the US East Coast. <i>Atmospheric Environment</i> , 2009, 43, 4903-4913.	4.1	89
6	Mass size distributions of water-soluble inorganic and organic ions in size-segregated aerosols over metropolitan Newark in the US east coast. <i>Atmospheric Environment</i> , 2008, 42, 4063-4078.	4.1	81
7	Characterization of microplastics in indoor and ambient air in northern New Jersey. <i>Environmental Research</i> , 2022, 207, 112142.	7.5	78
8	Acidic species and chloride depletion in coarse aerosol particles in the US east coast. <i>Science of the Total Environment</i> , 2008, 407, 541-547.	8.0	64
9	Characterization of hematite dissolution affected by oxalate coating, kinetics and pH. <i>Applied Geochemistry</i> , 2008, 23, 783-793.	3.0	52
10	Chemical composition and size distributions of coastal aerosols observed on the US East Coast. <i>Marine Chemistry</i> , 2010, 119, 77-90.	2.3	47
11	Characteristics of water-soluble inorganic and organic ions in aerosols over the Southern Ocean and coastal East Antarctica during austral summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,303.	3.3	47
12	Effects of ship emissions on summertime aerosols at Ny-Ålesund in the Arctic. <i>Atmospheric Pollution Research</i> , 2014, 5, 500-510.	3.8	44
13	Changing atmospheric acidity as a modulator of nutrient deposition and ocean biogeochemistry. <i>Science Advances</i> , 2021, 7, .	10.3	39
14	Enhanced Iron Solubility at Low pH in Global Aerosols. <i>Atmosphere</i> , 2018, 9, 201.	2.3	30
15	Atmospheric trace elements in aerosols observed over the Southern Ocean and coastal East Antarctica. <i>Polar Research</i> , 2014, 33, 23973.	1.6	29
16	Aeolian iron mobilisation by dust - acid interactions and their implications for soluble iron deposition to the ocean: a test involving potential anthropogenic organic acidic species. <i>Environmental Chemistry</i> , 2010, 7, 153.	1.5	28
17	Particle-Size Variability of Aerosol Iron and Impact on Iron Solubility and Dry Deposition Fluxes to the Arctic Ocean. <i>Scientific Reports</i> , 2019, 9, 16653.	3.3	25
18	Iron speciation in urban dust. <i>Atmospheric Environment</i> , 2011, 45, 4528-4532.	4.1	24

#	ARTICLE	IF	CITATIONS
19	Particle-Size Distributions and Solubility of Aerosol Iron Over the Antarctic Peninsula During Austral Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032082.	3.3	18
20	Concentrations, particle-size distributions, and dry deposition fluxes of aerosol trace elements over the Antarctic Peninsula in austral summer. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2105-2124.	4.9	10
21	Anthropogenic influences on aerosols at Ny-Ålesund in the summer Arctic. <i>Atmospheric Pollution Research</i> , 2017, 8, 383-393.	3.8	8
22	Enrichment of calcium in sea spray aerosol in the Arctic summer atmosphere. <i>Marine Chemistry</i> , 2020, 227, 103898.	2.3	8
23	Molecular markers for fungal spores and biogenic SOA over the Antarctic Peninsula: Field measurements and modeling results. <i>Science of the Total Environment</i> , 2021, 762, 143089.	8.0	7
24	Characterization of Atmospheric Iron Speciation and Acid Processing at Metropolitan Newark on the US East Coast. <i>Atmosphere</i> , 2017, 8, 66.	2.3	5
25	Aerosol iron speciation and seasonal variation of iron oxidation state over the western Antarctic Peninsula. <i>Science of the Total Environment</i> , 2022, 824, 153890.	8.0	5
26	Evaluation of air pollution, local meteorology and urban public health. <i>International Journal of Environmental Technology and Management</i> , 2013, 16, 160.	0.2	3
27	Distributions of water-soluble ions in size-aggregated aerosols over the Southern Ocean and coastal Antarctica. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1316-1327.	3.5	2
28	Concentrations and size-distributions of water-soluble inorganic and organic species on aerosols over the Arctic Ocean observed during the US GEOTRACES Western Arctic Cruise GN01. <i>Atmospheric Environment</i> , 2021, 261, 118569.	4.1	2
29	Insignificant impact of freezing and compaction on iron solubility in natural snow. <i>Journal of Atmospheric Chemistry</i> , 2018, 75, 247-270.	3.2	0