

S-M Fan

List of Publications by Year in descending order

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81
papers

13,360
citations

61857

43
h-index

66788

78
g-index

85
all docs

85
docs citations

85
times ranked

10568
citing authors

#	ARTICLE	IF	CITATIONS
1	Terrestrial carbon sink in the Northern Hemisphere estimated from the atmospheric CO ₂ difference between Mauna Loa and the South Pole since 1959. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 51, 863.	0.8	6
2	TransCom 3 CO ₂ inversion intercomparison: 1. Annual mean control results and sensitivity to transport and prior flux information. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 555.	0.8	105
3	Atmospheric energy transport to the Arctic 1979–2012. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 25482.	0.8	8
4	Three-dimensional transport and concentration of SF ₆ : A model intercomparison study (TransCom 2). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 51, 266.	0.8	88
5	The Influence of Extratropical Weather Regimes on Wintertime Temperature Variations in the Arctic during 1979–2019. <i>Atmosphere</i> , 2022, 13, 880.	1.0	0
6	Two-Moment Bulk Cloud Microphysics With Prognostic Precipitation in GFDL's Atmosphere Model AM4.0: Configuration and Performance. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002453.	1.3	10
7	Ocean Biogeochemistry in GFDL's Earth System Model 4.1 and Its Response to Increasing Atmospheric CO ₂ . <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002043.	1.3	70
8	Toward Improved Cloud-Phase Simulation with a Mineral Dust and Temperature-Dependent Parameterization for Ice Nucleation in Mixed-Phase Clouds. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 3655-3667.	0.6	5
9	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 735-769.	1.3	185
10	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 691-734.	1.3	155
11	Soluble Fe in Aerosols Sustained by Gaseous HO ₂ Uptake. <i>Environmental Science and Technology Letters</i> , 2017, 4, 98-104.	3.9	22
12	A potential large and persistent black carbon forcing over Northern Pacific inferred from satellite observations. <i>Scientific Reports</i> , 2017, 7, 43429.	1.6	7
13	Arctic and East Asia Winter Climate Variations Associated with the Eastern Atlantic Pattern. <i>Journal of Climate</i> , 2017, 30, 573-583.	1.2	6
14	Modeling of Aircraft Measurements of Ice Crystal Concentration in the Arctic and a Parameterization for Mixed-Phase Cloud. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 3799-3814.	0.6	5
15	Contrasting seasonal responses of sulfate aerosols to declining SO ₂ emissions in the Eastern U.S.: Implications for the efficacy of SO ₂ emission controls. <i>Geophysical Research Letters</i> , 2017, 44, 455-464.	1.5	40
16	Potential health benefits of controlling dust emissions in Beijing. <i>Environmental Pollution</i> , 2016, 213, 850-859.	3.7	32
17	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1459-1477.	1.9	79
18	Tropospheric ozone trends at Mauna Loa Observatory tied to decadal climate variability. <i>Nature Geoscience</i> , 2014, 7, 136-143.	5.4	151

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19	Analysis of transpacific transport of black carbon during HIPPO-3: implications for black carbon aging. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6315-6327.	1.9	32
20	Sensitivity of tropospheric oxidants to biomass burning emissions: implications for radiative forcing. <i>Geophysical Research Letters</i> , 2013, 40, 1241-1246.	1.5	36
21	Radical loss in the atmosphere from Cu-Fe redox coupling in aerosols. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 509-519.	1.9	156
22	Evaluation of factors controlling global secondary organic aerosol production from cloud processes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1913-1926.	1.9	27
23	Modeling of observed mineral dust aerosols in the arctic and the impact on winter season low-level clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,161.	1.2	27
24	Global in-cloud production of secondary organic aerosols: Implementation of a detailed chemical mechanism in the GFDL atmospheric model AM3. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	57
25	Inferring ice formation processes from global-scale black carbon profiles observed in the remote atmosphere and model simulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	25
26	The meteorological nature of variable soluble iron transport and deposition within the North Atlantic Ocean basin. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24
27	Evaluation of factors controlling long-range transport of black carbon to the Arctic. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	144
28	Models of iron speciation and concentration in the stratified epipelagic ocean. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	3
29	Photochemical and biochemical controls on reactive oxygen and iron speciation in the pelagic surface ocean. <i>Marine Chemistry</i> , 2008, 109, 152-164.	0.9	47
30	TransCom model simulations of hourly atmospheric CO ₂ : Experimental overview and diurnal cycle results for 2002. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	142
31	TransCom model simulations of hourly atmospheric CO ₂ : Analysis of synoptic-scale variations for the period 2002-2003. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	119
32	Response to Comment on "The Southern Ocean Biological Response to Aeolian Iron Deposition". <i>Science</i> , 2008, 319, 159-159.	6.0	10
33	The Southern Ocean Biological Response to Aeolian Iron Deposition. <i>Science</i> , 2007, 317, 1067-1070.	6.0	194
34	Aeolian input of bioavailable iron to the ocean. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	146
35	Sensitivity of inverse estimation of annual mean CO ₂ sources and sinks to ocean-only sites versus all-sites observational networks. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	40
36	Dust transport and deposition observed from the Terra-Moderate Resolution Imaging Spectroradiometer (MODIS) spacecraft over the Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	499

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37	Implications of droplet nucleation to mineral dust aerosol deposition and transport. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	8
38	Impact of air pollution on wet deposition of mineral dust aerosols. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	89
39	TransCom 3 CO ₂ inversion intercomparison: 1. Annual mean control results and sensitivity to transport and prior flux information. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 555-579.	0.8	235
40	Interannual variability of air-sea O ₂ fluxes and the determination of CO ₂ sinks using atmospheric O ₂ /N ₂ . <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	38
41	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
42	Measurements and models of the atmospheric Ar/N ₂ ratio. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	23
43	Towards robust regional estimates of CO ₂ sources and sinks using atmospheric transport models. <i>Nature</i> , 2002, 415, 626-630.	13.7	1,157
44	A Cumulus Parameterization Including Mass Fluxes, Convective Vertical Velocities, and Mesoscale Effects: Thermodynamic and Hydrological Aspects in a General Circulation Model. <i>Journal of Climate</i> , 2001, 14, 3444-3463.	1.2	124
45	Air-sea flux of oxygen estimated from bulk data: Implications For the marine and atmospheric oxygen cycles. <i>Global Biogeochemical Cycles</i> , 2001, 15, 783-803.	1.9	86
46	Consistent Land- and Atmosphere-Based U.S. Carbon Sink Estimates. <i>Science</i> , 2001, 292, 2316-2320.	6.0	746
47	Effects of the stratospheric quasi-biennial oscillation on long-lived greenhouse gases in the troposphere. <i>Journal of Geophysical Research</i> , 2000, 105, 20581-20587.	3.3	21
48	Optimal sampling of the atmosphere for purpose of inverse modeling: A model study. <i>Global Biogeochemical Cycles</i> , 2000, 14, 407-428.	1.9	104
49	Three-dimensional transport and concentration of SF ₆ . A model intercomparison study (TransCom 2). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 266-297.	0.8	101
50	Terrestrial carbon sink in the Northern Hemisphere estimated from the atmospheric CO ₂ difference between Mauna Loa and the South Pole since 1959. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 863-870.	0.8	10
51	A model-based evaluation of inversions of atmospheric transport, using annual mean mixing ratios, as a tool to monitor fluxes of nonreactive trace substances like CO ₂ on a continental scale. <i>Journal of Geophysical Research</i> , 1999, 104, 14245-14260.	3.3	43
52	Concentrations and snow-atmosphere fluxes of reactive nitrogen at Summit, Greenland. <i>Journal of Geophysical Research</i> , 1999, 104, 13721-13734.	3.3	42
53	On the use of regularization techniques in the inverse modeling of atmospheric carbon dioxide. <i>Journal of Geophysical Research</i> , 1999, 104, 21503-21512.	3.3	19
54	Air-snow exchange of HNO ₃ and NO _y at Summit, Greenland. <i>Journal of Geophysical Research</i> , 1998, 103, 3475-3486.	3.3	117

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55	Regional budgets for nitrogen oxides from continental sources: Variations of rates for oxidation and deposition with season and distance from source regions. <i>Journal of Geophysical Research</i> , 1998, 103, 8355-8368.	3.3	100
56	Sensitivity of Boreal Forest Carbon Balance to Soil Thaw. <i>Science</i> , 1998, 279, 214-217.	6.0	704
57	A Large Terrestrial Carbon Sink in North America Implied by Atmospheric and Oceanic Carbon Dioxide Data and Models. , 1998, 282, 442-446.		713
58	Physiological responses of a black spruce forest to weather. <i>Journal of Geophysical Research</i> , 1997, 102, 28987-28996.	3.3	332
59	Origin of tropospheric ozone at remote high northern latitudes in summer. <i>Journal of Geophysical Research</i> , 1996, 101, 4175-4188.	3.3	84
60	Atmospheric deposition of reactive nitrogen oxides and ozone in a temperate deciduous forest and a subarctic woodland: 1. Measurements and mechanisms. <i>Journal of Geophysical Research</i> , 1996, 101, 12639-12657.	3.3	154
61	Origin of ozone and NO _x in the tropical troposphere: A photochemical analysis of aircraft observations over the South Atlantic basin. <i>Journal of Geophysical Research</i> , 1996, 101, 24235-24250.	3.3	335
62	Exchange of Carbon Dioxide by a Deciduous Forest: Response to Interannual Climate Variability. <i>Science</i> , 1996, 271, 1576-1578.	6.0	649
63	Modelling the soil-plant-atmosphere continuum in a <i>Quercus-Acer</i> stand at Harvard Forest: the regulation of stomatal conductance by light, nitrogen and soil/plant hydraulic properties. <i>Plant, Cell and Environment</i> , 1996, 19, 911-927.	2.8	510
64	Measurements of carbon sequestration by long-term eddy covariance: methods and a critical evaluation of accuracy. <i>Global Change Biology</i> , 1996, 2, 169-182.	4.2	1,240
65	Modelling temporal variability in the carbon balance of a spruce/moss boreal forest. <i>Global Change Biology</i> , 1996, 2, 343-366.	4.2	138
66	Environmental controls on the photosynthesis and respiration of a boreal lichen woodland: a growing season of whole-ecosystem exchange measurements by eddy correlation. <i>Oecologia</i> , 1995, 102, 443-452.	0.9	111
67	Factors influencing atmospheric composition over subarctic North America during summer. <i>Journal of Geophysical Research</i> , 1994, 99, 1887.	3.3	47
68	Origin of tropospheric NO _x over subarctic eastern Canada in summer. <i>Journal of Geophysical Research</i> , 1994, 99, 16867.	3.3	78
69	Net Exchange of CO ₂ in a Mid-Latitude Forest. <i>Science</i> , 1993, 260, 1314-1317.	6.0	833
70	Evidence of inorganic chlorine gases other than hydrogen chloride in marine surface air. <i>Geophysical Research Letters</i> , 1993, 20, 699-702.	1.5	311
71	A Time-Dependent Two-Dimensional-Model Study of the Trend in Atmospheric Methane. , 1993, , 98-112.		1
72	Measurements of NO _x and NO _y concentrations and fluxes over Arctic tundra. <i>Journal of Geophysical Research</i> , 1992, 97, 16545-16557.	3.3	40

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73	Biosphere/atmosphere CO ₂ exchange in tundra ecosystems: Community characteristics and relationships with multispectral surface reflectance. <i>Journal of Geophysical Research</i> , 1992, 97, 16671-16680.	3.3	73
74	Summertime photochemistry of the troposphere at high northern latitudes. <i>Journal of Geophysical Research</i> , 1992, 97, 16421-16431.	3.3	127
75	Deposition of ozone to tundra. <i>Journal of Geophysical Research</i> , 1992, 97, 16473-16479.	3.3	45
76	Surface ozone depletion in Arctic spring sustained by bromine reactions on aerosols. <i>Nature</i> , 1992, 359, 522-524.	13.7	433
77	Emission of nitric oxide (NO) from tropical forest soils and exchange of NO between the forest canopy and atmospheric boundary layers. <i>Journal of Geophysical Research</i> , 1990, 95, 16755-16764.	3.3	122
78	Measurements of reactive nitrogen oxides (NO _x) within and above a tropical forest canopy in the wet season. <i>Journal of Geophysical Research</i> , 1990, 95, 16765-16772.	3.3	49
79	Atmosphere-biosphere exchange of CO ₂ and O ₃ in the central Amazon Forest. <i>Journal of Geophysical Research</i> , 1990, 95, 16851-16864.	3.3	295
80	Particulate sulfur and chlorine in Arctic aerosols, spring 1983. <i>Atmospheric Environment</i> , 1985, 19, 2167-2173.	1.1	19
81	Coarse particle soil dust in Arctic aerosols, spring 1983. <i>Geophysical Research Letters</i> , 1984, 11, 995-998.	1.5	21