

# Jose D Fuentes

## List of Publications by Year in descending order

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82  
papers

4,209  
citations

126907

33  
h-index

123424

61  
g-index

88  
all docs

88  
docs citations

88  
times ranked

5320  
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical climate model downscaling for impact projections in the Midwest United States. International Journal of Climatology, 2022, 42, 3038-3055.	3.5	5
2	Direct partitioning of eddy-covariance water and carbon dioxide fluxes into ground and plant components. Agricultural and Forest Meteorology, 2022, 315, 108790.	4.8	17
3	Turbulent transport and reactions of plant-emitted hydrocarbons in an Amazonian rain forest. Atmospheric Environment, 2022, 279, 119094.	4.1	2
4	Evaluation of Atmospheric Boundary Layer Height From Wind Profiling Radar and Slab Models and Its Responses to Seasonality of Land Cover, Subsidence, and Advection. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033775.	3.3	15
5	Near-Surface Atmospheric Turbulence in the Presence of a Squall Line above a Forested and Deforested Region in the Central Amazon. Atmosphere, 2021, 12, 461.	2.3	4
6	Observation of $\text{N}_2\text{O}$ Deposition and $\text{ClNO}_2$ Production on the Saline Snowpack. ACS Earth and Space Chemistry, 2021, 5, 1020-1031.	2.7	9
7	Probability law of turbulent kinetic energy in the atmospheric surface layer. Physical Review Fluids, 2021, 6, .	2.5	2
8	Integrating continuous atmospheric boundary layer and tower-based flux measurements to advance understanding of land-atmosphere interactions. Agricultural and Forest Meteorology, 2021, 307, 108509.	4.8	31
9	Urban Snowpack $\text{ClNO}_2$ Production and Fate: A One-Dimensional Modeling Study. ACS Earth and Space Chemistry, 2020, 4, 1140-1148.	2.7	8
10	Satellite isoprene retrievals constrain emissions and atmospheric oxidation. Nature, 2020, 585, 225-233.	27.8	53
11	Detection of Extreme Phenomena in the Stable Boundary Layer over the Amazonian Forest. Atmosphere, 2020, 11, 952.	2.3	4
12	Observation of Road Salt Aerosol Driving Inland Wintertime Atmospheric Chlorine Chemistry. ACS Central Science, 2020, 6, 684-694.	11.3	41
13	Impacts of spectrally resolved irradiance on photolysis frequency calculations within a forest canopy. Agricultural and Forest Meteorology, 2020, 291, 108012.	4.8	4
14	Interactions Between the Amazonian Rainforest and Cumuli Clouds: A Large-Eddy Simulation, High-Resolution ECMWF, and Observational Intercomparison Study. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001828.	3.8	10
15	Tidal Wetland Gross Primary Production Across the Continental United States, 2000–2019. Global Biogeochemical Cycles, 2020, 34, e2019GB006349.	4.9	36
16	Topographic Influence on the African Easterly Jet and African Easterly Wave Energetics. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032138.	3.3	7
17	Springtime Nitrogen Oxide-Influenced Chlorine Chemistry in the Coastal Arctic. Environmental Science & Technology, 2019, 53, 8057-8067.	10.0	28
18	Influences of nitrogen oxides and isoprene on ozone-temperature relationships in the Amazon rain forest. Atmospheric Environment, 2019, 206, 280-292.	4.1	7

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19	HONO, Particulate Nitrite, and Snow Nitrite at a Midlatitude Urban Site during Wintertime. ACS Earth and Space Chemistry, 2019, 3, 811-822.	2.7	25
20	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. Nature Communications, 2019, 10, 1046.	12.8	131
21	Methane Emissions from the Marcellus Shale in Southwestern Pennsylvania and Northern West Virginia Based on Airborne Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1862-1878.	3.3	26
22	Environmental and biological controls on seasonal patterns of isoprene above a rain forest in central Amazonia. Agricultural and Forest Meteorology, 2018, 256-257, 391-406.	4.8	20
23	Investigating the mechanisms responsible for the lack of surface energy balance closure in a central Amazonian tropical rainforest. Agricultural and Forest Meteorology, 2018, 255, 92-103.	4.8	24
24	The surface-atmosphere exchange of carbon dioxide in tropical rainforests: Sensitivity to environmental drivers and flux measurement methodology. Agricultural and Forest Meteorology, 2018, 263, 292-307.	4.8	29
25	Downscaled rainfall projections in south Florida using self-organizing maps. Science of the Total Environment, 2018, 635, 1110-1123.	8.0	18
26	Air turbulence characteristics at multiple sites in and above the Amazon rainforest canopy. Agricultural and Forest Meteorology, 2018, 260-261, 41-54.	4.8	20
27	Convective storms and non-classical low-level jets during high ozone level episodes in the Amazon region: An ARM/GOAMAZON case study. Atmospheric Environment, 2017, 155, 199-209.	4.1	13
28	Turbulent mixing and removal of ozone within an Amazon rainforest canopy. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2791-2811.	3.3	36
29	The relationship between the Guinea Highlands and the West African offshore rainfall maximum. Geophysical Research Letters, 2017, 44, 1158-1166.	4.0	8
30	Air-Parcel Residence Times Within Forest Canopies. Boundary-Layer Meteorology, 2017, 165, 29-54.	2.3	25
31	Urban emissions of water vapor in winter. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9467-9484.	3.3	18
32	Observations of bromine monoxide transport in the Arctic sustained on aerosol particles. Atmospheric Chemistry and Physics, 2017, 17, 7567-7579.	4.9	44
33	Advances in Boundary-Layer/Air Pollution Meteorology. Advances in Meteorology, 2016, 2016, 1-2.	1.6	4
34	Air pollutants degrade floral scents and increase insect foraging times. Atmospheric Environment, 2016, 141, 361-374.	4.1	67
35	Linking Meteorology, Turbulence, and Air Chemistry in the Amazon Rain Forest. Bulletin of the American Meteorological Society, 2016, 97, 2329-2342.	3.3	59
36	Temporal Scales of the Nocturnal Flow Within and Above a Forest Canopy in Amazonia. Boundary-Layer Meteorology, 2016, 161, 73-98.	2.3	18

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37	Atmospheric inputs of organic matter to a forested watershed: Variations from storm to storm over the seasons. <i>Atmospheric Environment</i> , 2016, 147, 284-295.	4.1	11
38	Downward transport of ozone rich air and implications for atmospheric chemistry in the Amazon rainforest. <i>Atmospheric Environment</i> , 2016, 124, 64-76.	4.1	48
39	Chemical processing within and above a loblolly pine forest in North Carolina, USA. <i>Journal of Atmospheric Chemistry</i> , 2015, 72, 235-259.	3.2	5
40	Dimethyl sulfide in the Amazon rain forest. <i>Global Biogeochemical Cycles</i> , 2015, 29, 19-32.	4.9	58
41	Highly reactive light-dependent monoterpenes in the Amazon. <i>Geophysical Research Letters</i> , 2015, 42, 1576-1583.	4.0	71
42	Approximations of stand water use versus evapotranspiration from three mangrove forests in southwest Florida, USA. <i>Agricultural and Forest Meteorology</i> , 2015, 213, 291-303.	4.8	23
43	Component-specific dynamics of riverine mangrove CO <sub>2</sub> efflux in the Florida coastal Everglades. <i>Agricultural and Forest Meteorology</i> , 2015, 213, 273-282.	4.8	45
44	Nocturnal isoprene declines in a semi-urban environment. <i>Journal of Atmospheric Chemistry</i> , 2015, 72, 215-234.	3.2	10
45	Seasonal evapotranspiration patterns in mangrove forests. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3886-3899.	3.3	28
46	Impact of the Loess Plateau on the atmospheric boundary layer structure and air quality in the North China Plain: A case study. <i>Science of the Total Environment</i> , 2014, 499, 228-237.	8.0	136
47	Impact of the vertical mixing induced by low-level jets on boundary layer ozone concentration. <i>Atmospheric Environment</i> , 2013, 70, 123-130.	4.1	98
48	Ozone impedes the ability of a herbivore to find its host. <i>Environmental Research Letters</i> , 2013, 8, 014048.	5.2	44
49	Summertime influences of tidal energy advection on the surface energy balance in a mangrove forest. <i>Biogeosciences</i> , 2013, 10, 501-511.	3.3	26
50	Modeling light use efficiency in a subtropical mangrove forest equipped with CO <sub>2</sub> eddy covariance. <i>Biogeosciences</i> , 2013, 10, 2145-2158.	3.3	69
51	Controls on Boundary-Layer Thermodynamics and Dynamics in Coastal West Africa During the Rainy Season of 2006. <i>Boundary-Layer Meteorology</i> , 2012, 145, 113-130.	2.3	1
52	Hurricane disturbance and recovery of energy balance, CO <sub>2</sub> fluxes and canopy structure in a mangrove forest of the Florida Everglades. <i>Agricultural and Forest Meteorology</i> , 2012, 153, 54-66.	4.8	114
53	Increasing diversity in geosciences through experiential learning. <i>Eos</i> , 2012, 93, 533-535.	0.1	3
54	Radiative forcing of natural forest disturbances. <i>Global Change Biology</i> , 2012, 18, 555-565.	9.5	122

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55	Ozone variability in the atmospheric boundary layer in Maryland and its implications for vertical transport model. <i>Atmospheric Environment</i> , 2012, 46, 354-364.	4.1	83
56	Physiological responses of <i>Spartina alterniflora</i> to varying environmental conditions in Virginia marshes. <i>Hydrobiologia</i> , 2011, 669, 167-181.	2.0	18
57	Downward transport and modification of tropospheric ozone through moist convection. <i>Journal of Atmospheric Chemistry</i> , 2010, 65, 13-35.	3.2	29
58	Variability of ozone in the marine boundary layer of the equatorial Pacific Ocean. <i>Journal of Atmospheric Chemistry</i> , 2010, 66, 117-136.	3.2	10
59	Attributes of mesoscale convective systems at the land-ocean transition in Senegal during NASA African Monsoon Multidisciplinary Analyses 2006. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
60	Controls on mangrove forest-atmosphere carbon dioxide exchanges in western Everglades National Park. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	121
61	Ecosystem carbon dioxide fluxes after disturbance in forests of North America. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	395
62	Effects of air pollution on biogenic volatiles and ecological interactions. <i>Oecologia</i> , 2009, 160, 411-420.	2.0	72
63	Physiological responses of red mangroves to the climate in the Florida Everglades. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	28
64	Volatile organic compounds at a rural site in western Senegal. <i>Journal of Atmospheric Chemistry</i> , 2008, 60, 19-35.	3.2	13
65	Vertical attributes of precipitation systems in West Africa and adjacent Atlantic Ocean. <i>Theoretical and Applied Climatology</i> , 2008, 92, 181-193.	2.8	18
66	Air pollution modifies floral scent trails. <i>Atmospheric Environment</i> , 2008, 42, 2336-2348.	4.1	112
67	Ozone transport by mesoscale convective storms in western Senegal. <i>Atmospheric Environment</i> , 2008, 42, 7104-7114.	4.1	28
68	Tidal influences on carbon assimilation by a salt marsh. <i>Environmental Research Letters</i> , 2008, 3, 044010.	5.2	91
69	Biogenic Hydrocarbon Chemistry within and Above a Mixed Deciduous Forest. <i>Journal of Atmospheric Chemistry</i> , 2007, 56, 165-185.	3.2	73
70	Daytime Cycle of Low-Level Clouds and the Tropical Convective Boundary Layer in Southwestern Amazonia. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 1607-1619.	1.7	20
71	Role of canopy-scale photochemistry in modifying biogenic-atmosphere exchange of reactive terpene species: Results from the CELTIC field study. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	117
72	Radiative forcing of phytogenic aerosols. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	7

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73	Ozone Dynamics and Deposition Processes at a Deforested Site in the Amazon Basin. Ambio, 2002, 31, 21-27.	5.5	21
74	Transport of ozone to the surface by convective downdrafts at night. Journal of Geophysical Research, 2002, 107, LBA 13-1.	3.3	55
75	Biogenic Hydrocarbons in the Atmospheric Boundary Layer: A Review. Bulletin of the American Meteorological Society, 2000, 81, 1537-1575.	3.3	532
76	Seasonal Variations in Isoprene Emissions from a Boreal Aspen Forest. Journal of Applied Meteorology and Climatology, 1999, 38, 855-869.	1.7	66
77	ON THE SEASONALITY OF ISOPRENE EMISSIONS FROM A MIXED TEMPERATE FOREST. , 1999, 9, 1118-1131.		74
78	Micrometeorology, biophysical exchanges and NEE decomposition in a two-story boreal forest “ development and test of an integrated model. Agricultural and Forest Meteorology, 1999, 94, 123-148.	4.8	78
79	Chemical processing of biogenic hydrocarbons within and above a temperate deciduous forest. Journal of Geophysical Research, 1999, 104, 3581-3603.	3.3	108
80	Long-term observation of the atmospheric exchange of CO <sub>2</sub> with a temperate deciduous forest in southern Ontario, Canada. Journal of Geophysical Research, 1999, 104, 15975-15984.	3.3	134
81	Ambient biogenic hydrocarbons and isoprene emissions from a mixed deciduous forest. Journal of Atmospheric Chemistry, 1996, 25, 67-95.	3.2	81
82	Current Methods to Evaluate Net Primary Production and Carbon Budgets in Mangrove Forests. Soil Science Society of America Book Series, 0, , 243-288.	0.3	13