

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
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88
all docs

88
docs citations

88
times ranked

5320
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenic Hydrocarbons in the Atmospheric Boundary Layer: A Review. Bulletin of the American Meteorological Society, 2000, 81, 1537-1575.	3.3	532
2	Ecosystem carbon dioxide fluxes after disturbance in forests of North America. Journal of Geophysical Research, 2010, 115, .	3.3	395
3	Impact of the Loess Plateau on the atmospheric boundary layer structure and air quality in the North China Plain: A case study. Science of the Total Environment, 2014, 499, 228-237.	8.0	136
4	Long-term observation of the atmospheric exchange of CO ₂ with a temperate deciduous forest in southern Ontario, Canada. Journal of Geophysical Research, 1999, 104, 15975-15984.	3.3	134
5	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. Nature Communications, 2019, 10, 1046.	12.8	131
6	Radiative forcing of natural forest disturbances. Global Change Biology, 2012, 18, 555-565.	9.5	122
7	Controls on mangrove forest-atmosphere carbon dioxide exchanges in western Everglades National Park. Journal of Geophysical Research, 2010, 115, .	3.3	121
8	Role of canopy-scale photochemistry in modifying biogenic-atmosphere exchange of reactive terpene species: Results from the CELTIC field study. Journal of Geophysical Research, 2005, 110, .	3.3	117
9	Hurricane disturbance and recovery of energy balance, CO ₂ fluxes and canopy structure in a mangrove forest of the Florida Everglades. Agricultural and Forest Meteorology, 2012, 153, 54-66.	4.8	114
10	Air pollution modifies floral scent trails. Atmospheric Environment, 2008, 42, 2336-2348.	4.1	112
11	Chemical processing of biogenic hydrocarbons within and above a temperate deciduous forest. Journal of Geophysical Research, 1999, 104, 3581-3603.	3.3	108
12	Impact of the vertical mixing induced by low-level jets on boundary layer ozone concentration. Atmospheric Environment, 2013, 70, 123-130.	4.1	98
13	Tidal influences on carbon assimilation by a salt marsh. Environmental Research Letters, 2008, 3, 044010.	5.2	91
14	Ozone variability in the atmospheric boundary layer in Maryland and its implications for vertical transport model. Atmospheric Environment, 2012, 46, 354-364.	4.1	83
15	Ambient biogenic hydrocarbons and isoprene emissions from a mixed deciduous forest. Journal of Atmospheric Chemistry, 1996, 25, 67-95.	3.2	81
16	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
17	ON THE SEASONALITY OF ISOPRENE EMISSIONS FROM A MIXED TEMPERATE FOREST. , 1999, 9, 1118-1131.		74
18	Biogenic Hydrocarbon Chemistry within and Above a Mixed Deciduous Forest. Journal of Atmospheric Chemistry, 2007, 56, 165-185.	3.2	73

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19	Effects of air pollution on biogenic volatiles and ecological interactions. <i>Oecologia</i> , 2009, 160, 411-420.	2.0	72
20	Highly reactive light-dependent monoterpenes in the Amazon. <i>Geophysical Research Letters</i> , 2015, 42, 1576-1583.	4.0	71
21	Modeling light use efficiency in a subtropical mangrove forest equipped with CO ₂ and eddy covariance. <i>Biogeosciences</i> , 2013, 10, 2145-2158.	3.3	69
22	Air pollutants degrade floral scents and increase insect foraging times. <i>Atmospheric Environment</i> , 2016, 141, 361-374.	4.1	67
23	Seasonal Variations in Isoprene Emissions from a Boreal Aspen Forest. <i>Journal of Applied Meteorology and Climatology</i> , 1999, 38, 855-869.	1.7	66
24	Linking Meteorology, Turbulence, and Air Chemistry in the Amazon Rain Forest. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2329-2342.	3.3	59
25	Dimethyl sulfide in the Amazon rain forest. <i>Global Biogeochemical Cycles</i> , 2015, 29, 19-32.	4.9	58
26	Transport of ozone to the surface by convective downdrafts at night. <i>Journal of Geophysical Research</i> , 2002, 107, LBA 13-1.	3.3	55
27	Satellite isoprene retrievals constrain emissions and atmospheric oxidation. <i>Nature</i> , 2020, 585, 225-233.	27.8	53
28	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
29	Component-specific dynamics of riverine mangrove CO ₂ efflux in the Florida coastal Everglades. <i>Agricultural and Forest Meteorology</i> , 2015, 213, 273-282.	4.8	45
30	Ozone impedes the ability of a herbivore to find its host. <i>Environmental Research Letters</i> , 2013, 8, 014048.	5.2	44
31	Observations of bromine monoxide transport in the Arctic sustained on aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7567-7579.	4.9	44
32	Observation of Road Salt Aerosol Driving Inland Wintertime Atmospheric Chlorine Chemistry. <i>ACS Central Science</i> , 2020, 6, 684-694.	11.3	41
33	Turbulent mixing and removal of ozone within an Amazon rainforest canopy. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2791-2811.	3.3	36
34	Tidal Wetland Gross Primary Production Across the Continental United States, 2000-2019. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006349.	4.9	36
35	Integrating continuous atmospheric boundary layer and tower-based flux measurements to advance understanding of land-atmosphere interactions. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108509.	4.8	31
36	Downward transport and modification of tropospheric ozone through moist convection. <i>Journal of Atmospheric Chemistry</i> , 2010, 65, 13-35.	3.2	29

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37	The surface-atmosphere exchange of carbon dioxide in tropical rainforests: Sensitivity to environmental drivers and flux measurement methodology. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 292-307.	4.8	29
38	Ozone transport by mesoscale convective storms in western Senegal. <i>Atmospheric Environment</i> , 2008, 42, 7104-7114.	4.1	28
39	Physiological responses of red mangroves to the climate in the Florida Everglades. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	28
40	Seasonal evapotranspiration patterns in mangrove forests. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3886-3899.	3.3	28
41	Springtime Nitrogen Oxide-Influenced Chlorine Chemistry in the Coastal Arctic. <i>Environmental Science & Technology</i> , 2019, 53, 8057-8067.	10.0	28
42	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
43	Methane Emissions from the Marcellus Shale in Southwestern Pennsylvania and Northern West Virginia Based on Airborne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1862-1878.	3.3	26
44	Air-Parcel Residence Times Within Forest Canopies. <i>Boundary-Layer Meteorology</i> , 2017, 165, 29-54.	2.3	25
45	HONO, Particulate Nitrite, and Snow Nitrite at a Midlatitude Urban Site during Wintertime. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 811-822.	2.7	25
46	Investigating the mechanisms responsible for the lack of surface energy balance closure in a central Amazonian tropical rainforest. <i>Agricultural and Forest Meteorology</i> , 2018, 255, 92-103.	4.8	24
47	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
48	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
49	Ozone Dynamics and Deposition Processes at a Deforested Site in the Amazon Basin. <i>Ambio</i> , 2002, 31, 21-27.	5.5	21
50	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
51	Environmental and biological controls on seasonal patterns of isoprene above a rain forest in central Amazonia. <i>Agricultural and Forest Meteorology</i> , 2018, 256-257, 391-406.	4.8	20
52	Air turbulence characteristics at multiple sites in and above the Amazon rainforest canopy. <i>Agricultural and Forest Meteorology</i> , 2018, 260-261, 41-54.	4.8	20
53	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
54	Physiological responses of <i>Spartina alterniflora</i> to varying environmental conditions in Virginia marshes. <i>Hydrobiologia</i> , 2011, 669, 167-181.	2.0	18

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55	Temporal Scales of the Nocturnal Flow Within and Above a Forest Canopy in Amazonia. <i>Boundary-Layer Meteorology</i> , 2016, 161, 73-98.	2.3	18
56	Urban emissions of water vapor in winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9467-9484.	3.3	18
57	Downscaled rainfall projections in south Florida using self-organizing maps. <i>Science of the Total Environment</i> , 2018, 635, 1110-1123.	8.0	18
58	Direct partitioning of eddy-covariance water and carbon dioxide fluxes into ground and plant components. <i>Agricultural and Forest Meteorology</i> , 2022, 315, 108790.	4.8	17
59	Evaluation of Atmospheric Boundary Layer Height From Wind Profiling Radar and Slab Models and Its Responses to Seasonality of Land Cover, Subsidence, and Advection. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033775.	3.3	15
60	Volatile organic compounds at a rural site in western Senegal. <i>Journal of Atmospheric Chemistry</i> , 2008, 60, 19-35.	3.2	13
61	Current Methods to Evaluate Net Primary Production and Carbon Budgets in Mangrove Forests. <i>Soil Science Society of America Book Series</i> , 0, , 243-288.	0.3	13
62	Convective storms and non-classical low-level jets during high ozone level episodes in the Amazon region: An ARM/GOAMAZON case study. <i>Atmospheric Environment</i> , 2017, 155, 199-209.	4.1	13
63	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
64	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
65	Nocturnal isoprene declines in a semi-urban environment. <i>Journal of Atmospheric Chemistry</i> , 2015, 72, 215-234.	3.2	10
66	Interactions Between the Amazonian Rainforest and Cumuli Clouds: A Large Eddy Simulation, High Resolution ECMWF, and Observational Intercomparison Study. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001828.	3.8	10
67	Observation of N_2O Deposition and ClNO_2 Production on the Saline Snowpack. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1020-1031.	2.7	9
68	The relationship between the Guinea Highlands and the West African offshore rainfall maximum. <i>Geophysical Research Letters</i> , 2017, 44, 1158-1166.	4.0	8
69	Urban Snowpack ClNO_2 Production and Fate: A One-Dimensional Modeling Study. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1140-1148.	2.7	8
70	Radiative forcing of phytogenic aerosols. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	7
71	Influences of nitrogen oxides and isoprene on ozone-temperature relationships in the Amazon rain forest. <i>Atmospheric Environment</i> , 2019, 206, 280-292.	4.1	7
72	Topographic Influence on the African Easterly Jet and African Easterly Wave Energetics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032138.	3.3	7

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73	Chemical processing within and above a loblolly pine forest in North Carolina, USA. Journal of Atmospheric Chemistry, 2015, 72, 235-259.	3.2	5
74	Statistical climate model downscaling for impact projections in the Midwest United States. International Journal of Climatology, 2022, 42, 3038-3055.	3.5	5
75	Advances in Boundary-Layer/Air Pollution Meteorology. Advances in Meteorology, 2016, 2016, 1-2.	1.6	4
76	Detection of Extreme Phenomena in the Stable Boundary Layer over the Amazonian Forest. Atmosphere, 2020, 11, 952.	2.3	4
77	Impacts of spectrally resolved irradiance on photolysis frequency calculations within a forest canopy. Agricultural and Forest Meteorology, 2020, 291, 108012.	4.8	4
78	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
79	Increasing diversity in geosciences through experiential learning. Eos, 2012, 93, 533-535.	0.1	3
80	Probability law of turbulent kinetic energy in the atmospheric surface layer. Physical Review Fluids, 2021, 6, .	2.5	2
81	Turbulent transport and reactions of plant-emitted hydrocarbons in an Amazonian rain forest. Atmospheric Environment, 2022, 279, 119094.	4.1	2
82	Controls on Boundary-Layer Thermodynamics and Dynamics in Coastal West Africa During the Rainy Season of 2006. Boundary-Layer Meteorology, 2012, 145, 113-130.	2.3	1