

Joel Brito

List of Publications by Year in descending order

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67
papers

3,592
citations

126858

33
h-index

149623

56
g-index

126
all docs

126
docs citations

126
times ranked

4562
citing authors

#	ARTICLE	IF	CITATIONS
1	The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10723-10776.	1.9	218
2	Atmospheric aerosols in Amazonia and land use change: from natural biogenic to biomass burning conditions. <i>Faraday Discussions</i> , 2013, 165, 203.	1.6	207
3	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11807-11833.	1.9	185
4	Atmospheric mercury concentrations observed at ground-based monitoring sites globally distributed in the framework of the GMOS network. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11915-11935.	1.9	185
5	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. <i>Nature Communications</i> , 2019, 10, 1046.	5.8	131
6	The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 981-997.	1.7	128
7	Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. <i>Nature</i> , 2016, 539, 416-419.	13.7	112
8	Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2853-2881.	1.9	108
9	Long-term observations of cloud condensation nuclei in the Amazon rain forest – Part 1: Aerosol size distribution, hygroscopicity, and new model parametrizations for CCN prediction. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15709-15740.	1.9	105
10	Ground-based aerosol characterization during the South American Biomass Burning Analysis (SAMBBA) field experiment. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12069-12083.	1.9	103
11	Isoprene photochemistry over the Amazon rainforest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6125-6130.	3.3	85
12	The DACCIWA Project: Dynamics of Aerosol Chemistry and Cloud Interactions in West Africa. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1451-1460.	1.7	84
13	Biomass burning in the Amazon region: Aerosol source apportionment and associated health risk assessment. <i>Atmospheric Environment</i> , 2015, 120, 277-285.	1.9	84
14	Diel and seasonal changes of biogenic volatile organic compounds within and above an Amazonian rainforest. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3359-3378.	1.9	83
15	Physical and chemical characterisation of the particulate matter inside two road tunnels in the São Paulo Metropolitan Area. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 12199-12213.	1.9	81
16	CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: seasonal and diel variations and impact of anthropogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11779-11801.	1.9	71
17	Long-term observations of cloud condensation nuclei over the Amazon rain forest – Part 2: Variability and characteristics of biomass burning, long-range transport, and pristine rain forest aerosols. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10289-10331.	1.9	64
18	Secondary organic aerosol formation from ambient air in an oxidation flow reactor in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 467-493.	1.9	63

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19	The Dynamics of Aerosol Chemistry-Cloud Interactions in West Africa Field Campaign: Overview and Research Highlights. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 83-104.	1.7	62
20	Biomass burning aerosol over the Amazon: analysis of aircraft, surface and satellite observations using a global aerosol model. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9125-9152.	1.9	60
21	Strong sesquiterpene emissions from Amazonian soils. <i>Nature Communications</i> , 2018, 9, 2226.	5.8	55
22	Black and brown carbon over central Amazonia: long-term aerosol measurements at the ATTO site. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12817-12843.	1.9	54
23	Long-term study on coarse mode aerosols in the Amazon rain forest with the frequent intrusion of Saharan dust plumes. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10055-10088.	1.9	52
24	Measured and modelled cloud condensation nuclei (CCN) concentration in São Paulo, Brazil: the importance of aerosol size-resolved chemical composition on CCN concentration prediction. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7559-7572.	1.9	51
25	Vehicular Emission Ratios of VOCs in a Megacity Impacted by Extensive Ethanol Use: Results of Ambient Measurements in São Paulo, Brazil. <i>Environmental Science & Technology</i> , 2015, 49, 11381-11387.	4.6	48
26	Airborne observations of IEPOX-derived isoprene SOA in the Amazon during SAMBBA. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11393-11407.	1.9	46
27	Rupturing of Biological Spores As a Source of Secondary Particles in Amazonia. <i>Environmental Science & Technology</i> , 2016, 50, 12179-12186.	4.6	46
28	Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6611-6629.	1.9	45
29	Comparison of different Aethalometer correction schemes and a reference multi-wavelength absorption technique for ambient aerosol data. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2837-2850.	1.2	44
30	Modeling investigation of light-absorbing aerosols in the Amazon Basin during the wet season. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14775-14794.	1.9	42
31	Land cover and its transformation in the backward trajectory footprint region of the Amazon Tall Tower Observatory. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8425-8470.	1.9	41
32	Influx of African biomass burning aerosol during the Amazonian dry season through layered transatlantic transport of black carbon-rich smoke. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4757-4785.	1.9	40
33	Biogenic cloud nuclei in the central Amazon during the transition from wet to dry season. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9727-9743.	1.9	37
34	Atmospheric mixing ratios of methyl ethyl ketone (2-butanone) in tropical, boreal, temperate and marine environments. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10965-10984.	1.9	37
35	Contributions of biomass-burning, urban, and biogenic emissions to the concentrations and light-absorbing properties of particulate matter in central Amazonia during the dry season. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7973-8001.	1.9	36
36	Reduced ultrafine particle levels in São Paulo's atmosphere during shifts from gasoline to ethanol use. <i>Nature Communications</i> , 2017, 8, 77.	5.8	31

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37	Fungal spores as a source of sodium salt particles in the Amazon basin. <i>Nature Communications</i> , 2018, 9, 4793.	5.8	31
38	Large air quality and human health impacts due to Amazon forest and vegetation fires. <i>Environmental Research Communications</i> , 2020, 2, 095001.	0.9	31
39	Elemental Mixing State of Aerosol Particles Collected in Central Amazonia during GoAmazon2014/15. <i>Atmosphere</i> , 2017, 8, 173.	1.0	30
40	Urban influence on the concentration and composition of submicron particulate matter in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12185-12206.	1.9	30
41	Remote biomass burning dominates southern West African air pollution during the monsoon. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15217-15234.	1.9	29
42	Overview of aerosol optical properties over southern West Africa from DACCWA aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4735-4756.	1.9	27
43	Assessing the role of anthropogenic and biogenic sources on PM ₁₀ over southern West Africa using aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 757-772.	1.9	26
44	Multi-year statistical and modeling analysis of submicrometer aerosol number size distributions at a rain forest site in Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10255-10274.	1.9	26
45	Ground-based observation of clusters and nucleation-mode particles in the Amazon. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13245-13264.	1.9	26
46	Mixing states of Amazon basin aerosol particles transported over long distances using transmission electron microscopy. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11923-11939.	1.9	25
47	Diurnal cycle of coastal anthropogenic pollutant transport over southern West Africa during the DACCWA campaign. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 473-497.	1.9	24
48	Disentangling vehicular emission impact on urban air pollution using ethanol as a tracer. <i>Scientific Reports</i> , 2018, 8, 10679.	1.6	23
49	Aerosol composition and the contribution of SOA formation over Mediterranean forests. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7041-7056.	1.9	22
50	Intercomparison and characterization of 23 Aethalometers under laboratory and ambient air conditions: procedures and unit-to-unit variabilities. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3195-3216.	1.2	22
51	Aerosol distribution in the northern Gulf of Guinea: local anthropogenic sources, long-range transport, and the role of coastal shallow circulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12363-12389.	1.9	21
52	The radiative impact of out-of-cloud aerosol hygroscopic growth during the summer monsoon in southern West Africa. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1505-1520.	1.9	20
53	Unexpected Biomass Burning Aerosol Absorption Enhancement Explained by Black Carbon Mixing State. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089055.	1.5	20
54	Aerosol influences on low-level clouds in the West African monsoon. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8503-8522.	1.9	19

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55	The vertical distribution of biomass burning pollution over tropical South America from aircraft in situ measurements during SAMBBA. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5771-5790.	1.9	19
56	Evidence of New Particle Formation Within Etna and Stromboli Volcanic Plumes and Its Parameterization From Airborne In Situ Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5650-5668.	1.2	18
57	Ambient concentrations and insights on organic and elemental carbon dynamics in São Paulo, Brazil. <i>Atmospheric Environment</i> , 2016, 144, 226-233.	1.9	17
58	Observations of Manaus urban plume evolution and interaction with biogenic emissions in GoAmazon 2014/5. <i>Atmospheric Environment</i> , 2018, 191, 513-524.	1.9	17
59	African volcanic emissions influencing atmospheric aerosols over the Amazon rain forest. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10391-10405.	1.9	16
60	Occurrence and growth of sub-50nm aerosol particles in the Amazonian boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3469-3492.	1.9	16
61	An unheated permeation device for calibrating atmospheric VOC measurements. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 2143-2152.	1.2	13
62	Biomass burning emission disturbances of isoprene oxidation in a tropical forest. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12715-12734.	1.9	12
63	Investigation of PM10, PM2.5, PM1 in an unoccupied airflow-controlled room: How reliable to neglect resuspension and assume unreactive particles?. <i>Building and Environment</i> , 2020, 186, 107357.	3.0	10
64	Seasonality of isoprene emissions and oxidation products above the remote Amazon. <i>Environmental Science Atmospheres</i> , 2022, 2, 230-240.	0.9	4
65	Using Real Time Measurements to Derive the Indoor and Outdoor Contributions of Submicron Particulate Species and Trace Gases. <i>Toxics</i> , 2022, 10, 161.	1.6	4
66	Acetone-CO enhancement ratios in the upper troposphere based on 7 years of CARIBIC data: new insights and estimates of regional acetone fluxes. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1985-2008.	1.9	3
67	Sensitivity of low-level clouds and precipitation to anthropogenic aerosol emission in southern West Africa: a DACCIWA case study. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3251-3273.	1.9	3