

Jerome Brioude

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

3,649
citations

32
h-index

60
g-index

100
ext. papers

4,186
ext. citations

5.9
avg, IF

4.41
L-index

#	Paper	IF	Citations
75	The <i>FAST</i> Fires, Asian, and Stratospheric Transport <i>Las Vegas Ozone Study</i> (<i>FAST</i>-LVOS). <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 1707-1737	6.8	1
74	Origin of water-soluble organic aerosols at the Maïdo high-altitude observatory, Reunion Island, in the tropical Indian Ocean. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 17017-17029	6.8	0
73	Investigation of several proxies to estimate sulfuric acid concentration under volcanic plume conditions. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4541-4560	6.8	1
72	The Environmental Effects of the April 2020 Wildfires and the Cs-137 Re-Suspension in the Chernobyl Exclusion Zone: A Multi-Hazard Threat. <i>Atmosphere</i> , 2021 , 12, 467	2.7	2
71	Unprecedented Observations of a Nascent In Situ Cirrus in the Tropical Tropopause Layer. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090936	4.9	2
70	Measurement report: Source apportionment of volatile organic compounds at the remote high-altitude Maïdo observatory. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12965-12988	6.8	3
69	Evaluating the added value of multi-input atmospheric transport ensemble modeling for applications of the Comprehensive Nuclear Test-Ban Treaty organization (CTBTO). <i>Journal of Environmental Radioactivity</i> , 2021 , 237, 106649	2.4	2
68	Analysis of Volatile Organic Compounds during the OCTAVE Campaign: Sources and Distributions of Formaldehyde on Reunion Island. <i>Atmosphere</i> , 2020 , 11, 140	2.7	5
67	Ozone Production in the Soberanes Smoke Haze: Implications for Air Quality in the San Joaquin Valley During the California Baseline Ozone Transport Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031777	4.4	5
66	Effect of deep convection on the tropical tropopause layer composition over the southwest Indian Ocean during austral summer. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10565-10586	6.8	2
65	Characterisation of African biomass burning plumes and impacts on the atmospheric composition over the south-west Indian Ocean. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14821-14845	6.8	3
64	Impact of convection on the upper-tropospheric composition (water vapor and ozone) over a subtropical site (Reunion island; 21.1° S, 55.5° E) in the Indian Ocean. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 8611-8626	6.8	1
63	Development of turbulent scheme in the FLEXPART-AROME v1.2.1 Lagrangian particle dispersion model 2019 ,		2
62	The Lagrangian particle dispersion model FLEXPART version 10.3 2019 ,		7
61	Inversion Estimates of Lognormally Distributed Methane Emission Rates From the Haynesville-Bossier Oil and Gas Production Region Using Airborne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 3520-3531	4.4	11
60	Development of turbulent scheme in the FLEXPART-AROME v1.2.1 Lagrangian particle dispersion model. <i>Geoscientific Model Development</i> , 2019 , 12, 4245-4259	6.3	5
59	The Lagrangian particle dispersion model FLEXPART version 10.4. <i>Geoscientific Model Development</i> , 2019 , 12, 4955-4997	6.3	104

58	Marine aerosol distribution and variability over the pristine Southern Indian Ocean. <i>Atmospheric Environment</i> , 2018 , 182, 17-30	5.3	12
57	Coordinated profiling of stratospheric intrusions and transported pollution by the Tropospheric Ozone Lidar Network (TOLNet) and NASA Alpha Jet experiment (AJAX): Observations and comparison to HYSPLIT, RAQMS, and FLEXPART. <i>Atmospheric Environment</i> , 2018 , 174, 1-14	5.3	22
56	Entrainment of stratospheric air and Asian pollution by the convective boundary layer in the southwestern U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1312-1337	4.4	26
55	The isotopic composition of near-surface water vapor at the Maïdo observatory (Reunion Island, southwestern Indian Ocean) documents the controls of the humidity of the subtropical troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 9628-9650	4.4	17
54	Top-down estimate of methane emissions in California using a mesoscale inverse modeling technique: The San Joaquin Valley. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3686-3699	4.4	22
53	First results of the Piton de la Fournaise STRAP 2015 experiment: multidisciplinary tracking of a volcanic gas and aerosol plume. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5355-5378	6.8	16
52	Microscale anthropogenic pollution modelling in a small tropical island during weak trade winds: Lagrangian particle dispersion simulations using real nested LES meteorological fields. <i>Atmospheric Environment</i> , 2016 , 139, 98-112	5.3	27
51	Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3063-3093	4	50
50	Description and evaluation of REFIST v1.0: a regional greenhouse gas flux inversion system in Canada 2016 ,		1
49	Lagrangian Stochastic Modelling of Dispersion in the Convective Boundary Layer with Skewed Turbulence Conditions and a Vertical Density Gradient: Formulation and Implementation in the FLEXPART Model. <i>Boundary-Layer Meteorology</i> , 2015 , 154, 367-390	3.4	30
48	Smoke dispersion modeling over complex terrain using high resolution meteorological data and satellite observations – The FireHub platform. <i>Atmospheric Environment</i> , 2015 , 119, 348-361	5.3	22
47	An overview of the 2013 Las Vegas Ozone Study (LVOS): Impact of stratospheric intrusions and long-range transport on surface air quality. <i>Atmospheric Environment</i> , 2015 , 109, 305-322	5.3	67
46	Top-down estimate of methane emissions in California using a mesoscale inverse modeling technique: The South Coast Air Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6698-6711	4.4	30
45	Transport effects on the vertical distribution of tropospheric ozone over western India. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 10012-10026	4.4	31
44	Transport of NOx in East Asia identified by satellite and in situ measurements and Lagrangian particle dispersion model simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 2574-2596	4.4	39
43	Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11011-11029	6.8	9
42	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4955-4978	6.8	47
41	Emissions of terpenoids, benzenoids, and other biogenic gas-phase organic compounds from agricultural crops and their potential implications for air quality. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5393-5413	6.8	23

40	Simulation of semi-explicit mechanisms of SOA formation from glyoxal in aerosol in a 3-D model. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6213-6239	6.8	129
39	Uncertainty in Lagrangian pollutant transport simulations due to meteorological uncertainty from a mesoscale WRF ensemble. <i>Geoscientific Model Development</i> , 2014 , 7, 2817-2829	6.3	34
38	Novel Pathways to Form Secondary Organic Aerosols: Glyoxal SOA in WRF/Chem. <i>Springer Proceedings in Complexity</i> , 2014 , 149-154	0.3	
37	The Lagrangian particle dispersion model FLEXPART-WRF version 3.0 2013 ,		5
36	The Lagrangian particle dispersion model FLEXPART-WRF version 3.1. <i>Geoscientific Model Development</i> , 2013 , 6, 1889-1904	6.3	192
35	Composition and Source Apportionment of Organic Aerosol in Beirut, Lebanon, During Winter 2012. <i>Aerosol Science and Technology</i> , 2013 , 47, 1258-1266	3.4	18
34	Evaluation of Lagrangian Particle Dispersion Models with Measurements from Controlled Tracer Releases. <i>Journal of Applied Meteorology and Climatology</i> , 2013 , 52, 2623-2637	2.7	57
33	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO _x and CO ₂ and their impacts. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3661-3677	6.8	119
32	Organic aerosol composition and sources in Pasadena, California, during the 2010 CalNex campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9233-9257	4.4	201
31	Quantifying sources of methane using light alkanes in the Los Angeles basin, California. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4974-4990	4.4	146
30	Inorganic and black carbon aerosols in the Los Angeles Basin during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1777-1803	4.4	13
29	Pollutant transport among California regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6750-6763	4.4	22
28	Air quality implications of the Deepwater Horizon oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20280-5	11.5	59
27	Stratospheric influence on surface ozone in the Los Angeles area during late spring and early summer of 2010. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		94
26	A new inversion method to calculate emission inventories without a prior at mesoscale: Application to the anthropogenic CO ₂ emission from Houston, Texas. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		40
25	Observations of ozone transport from the free troposphere to the Los Angeles basin. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		33
24	Black carbon aerosol over the Los Angeles Basin during CalNex. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		70
23	Meteorological Model Evaluation for CalNex 2010. <i>Monthly Weather Review</i> , 2012 , 140, 3885-3906	2.4	63

22	Numerical uncertainty at mesoscale in a Lagrangian model in complex terrain. <i>Geoscientific Model Development</i> , 2012 , 5, 1127-1136	6.3	32
21	Organic aerosol formation downwind from the Deepwater Horizon oil spill. <i>Science</i> , 2011 , 331, 1295-9	33.3	138
20	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2423-2453	6.8	217
19	Top-down estimate of anthropogenic emission inventories and their interannual variability in Houston using a mesoscale inverse modeling technique. <i>Journal of Geophysical Research</i> , 2011 , 116,		58
18	Evaluations of NO _x and highly reactive VOC emission inventories in Texas and their implications for ozone plume simulations during the Texas Air Quality Study 2006. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11361-11386	6.8	70
17	The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 627-654	6.8	238
16	Cloud condensation nuclei as a modulator of ice processes in Arctic mixed-phase clouds. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8003-8015	6.8	61
15	Organic aerosol formation in urban and industrial plumes near Houston and Dallas, Texas. <i>Journal of Geophysical Research</i> , 2009 , 114,		196
14	Biomass burning in Siberia and Kazakhstan as an important source for haze over the Alaskan Arctic in April 2008. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	249
13	Injection in the lower stratosphere of biomass fire emissions followed by long-range transport: a MOZAIC case study. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 5829-5846	6.8	33
12	Nocturnal isoprene oxidation over the Northeast United States in summer and its impact on reactive nitrogen partitioning and secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3027-3042	6.8	114
11	Effect of biomass burning on marine stratocumulus clouds off the California coast. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8841-8856	6.8	85
10	Air pollution during the 2003 European heat wave as seen by MOZAIC airliners. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2133-2150	6.8	97
9	Mixing between a stratospheric intrusion and a biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4229-4235	6.8	35
8	Vertical ozone measurements in the troposphere over the Eastern Mediterranean and comparison with Central Europe. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 3783-3790	6.8	44
7	Stratosphere-troposphere exchange in a summertime extratropical low: analysis. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2337-2353	6.8	17
6	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO _x and CO ₂ and their impacts		3
5	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley		3

4	Emissions of terpenoids, benzenoids, and other biogenic gas-phase organic compounds from agricultural crops and their potential implications for air quality	2
3	Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011	3
2	Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013	6
1	Simulation of semi-explicit mechanisms of SOA formation from glyoxal in a 3-D model	5