

Jerome Brioude

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5078455/jerome-brioude-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
74	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
73	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
72	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
71	Organic aerosol formation in urban and industrial plumes near Houston and Dallas, Texas. <i>Journal of Geophysical Research</i> , 2009 , 114,		196
70	The Lagrangian particle dispersion model FLEXPART-WRF version 3.1. <i>Geoscientific Model Development</i> , 2013 , 6, 1889-1904	6.3	192
69	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
68	Organic aerosol formation downwind from the Deepwater Horizon oil spill. <i>Science</i> , 2011 , 331, 1295-9	33.3	138
67	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
66	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
65	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
64	The Lagrangian particle dispersion model FLEXPART version 10.4. <i>Geoscientific Model Development</i> , 2019 , 12, 4955-4997	6.3	104
63	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
62	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
61	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
60	Black carbon aerosol over the Los Angeles Basin during CalNex. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		70
59	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

58	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
57	Meteorological Model Evaluation for CalNex 2010. <i>Monthly Weather Review</i> , 2012 , 140, 3885-3906	2.4	63
56	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
55	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
54	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
53	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
52	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
51	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
50	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
49	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
48	Transport of NO _x 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
47	Mixing between a stratospheric intrusion and a biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4229-4235	6.8	35
46	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
45	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
44	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
43	Numerical uncertainty at mesoscale in a Lagrangian model in complex terrain. <i>Geoscientific Model Development</i> , 2012 , 5, 1127-1136	6.3	32
42	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
41	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

40	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
39	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
38	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
37	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
36	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
35	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, 3686-3694	4.4	22
34	Pollutant transport among California regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6750-6763	4.4	22
33	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
32	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
31	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
30	Stratosphere-troposphere exchange in a summertime extratropical low: analysis. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2337-2353	6.8	17
29	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
28	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
27	Marine aerosol distribution and variability over the pristine Southern Indian Ocean. <i>Atmospheric Environment</i> , 2018 , 182, 17-30	5.3	12
26	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
25	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
24	The Lagrangian particle dispersion model FLEXPART version 10.3 2019 ,		7
23	Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013		6

22	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
21	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
20	The Lagrangian particle dispersion model FLEXPART-WRF version 3.0 2013 ,		5
19	Simulation of semi-explicit mechanisms of SOA formation from glyoxal in a 3-D model		5
18	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
17	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
16	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
15	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley		3
14	Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011		3
13	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
12	Development of turbulent scheme in the FLEXPART-AROME v1.2.1 Lagrangian particle dispersion model 2019 ,		2
11	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
10	Emissions of terpenoids, benzenoids, and other biogenic gas-phase organic compounds from agricultural crops and their potential implications for air quality		2
9	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
8	Unprecedented Observations of a Nascent In Situ Cirrus in the Tropical Tropopause Layer. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090936	4.9	2
7	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
6	The <i>FAST</i>-Las Vegas Ozone Study (<i>FAST</i>-LVOS). <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 1707-1737	6.8	1
5	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

4	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
3	Description and evaluation of REFIST v1.0: a regional greenhouse gas flux inversion system in Canada 2016 ,		1
2	Origin of water-soluble organic aerosols at the Maïdo high-altitude observatory, Réunion Island, in the tropical Indian Ocean. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 17017-17029	6.8	0
1	Novel Pathways to Form Secondary Organic Aerosols: Glyoxal SOA in WRF/Chem. <i>Springer Proceedings in Complexity</i> , 2014 , 149-154	0.3	