

Eric Apel

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,445
citations

126708

33
h-index

168136

53
g-index

85
all docs

85
docs citations

85
times ranked

3649
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Asian aerosols during transpacific transport in INTEX-B. Atmospheric Chemistry and Physics, 2009, 9, 7257-7287.	1.9	170
2	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. Bulletin of the American Meteorological Society, 2015, 96, 1281-1309.	1.7	165
3	Hydrocarbon source signatures in Houston, Texas: Influence of the petrochemical industry. Journal of Geophysical Research, 2004, 109, .	3.3	145
4	Chemical evolution of volatile organic compounds in the outflow of the Mexico City Metropolitan area. Atmospheric Chemistry and Physics, 2010, 10, 2353-2375.	1.9	131
5	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4505-4510.	3.3	118
6	A fast-GC/MS system to measure C2 to C4 carbonyls and methanol aboard aircraft. Journal of Geophysical Research, 2003, 108, .	3.3	106
7	High levels of molecular chlorine in the Arctic atmosphere. Nature Geoscience, 2014, 7, 91-94.	5.4	105
8	Heterogeneous N ₂ O ₅ Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4345-4372.	1.2	103
9	Measurement and interpretation of isoprene fluxes and isoprene, methacrolein, and methyl vinyl ketone mixing ratios at the PROPHET site during the 1998 Intensive. Journal of Geophysical Research, 2002, 107, ACH 7-1.	3.3	100
10	Active and widespread halogen chemistry in the tropical and subtropical free troposphere. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9281-9286.	3.3	91
11	Rate coefficients and mechanisms of the reaction of Cl atoms with a series of unsaturated hydrocarbons under atmospheric conditions. International Journal of Chemical Kinetics, 2003, 35, 334-353.	1.0	89
12	Upper tropospheric ozone production from lightning NO _x -impacted convection: Smoke ingestion case study from the DC3 campaign. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2505-2523.	1.2	88
13	Observations of nonmethane organic compounds during ARCTAS '07 Part 1: Biomass burning emissions and plume enhancements. Atmospheric Chemistry and Physics, 2011, 11, 11103-11130.	1.9	80
14	Intercomparison of oxygenated volatile organic compound measurements at the SAPHIR atmosphere simulation chamber. Journal of Geophysical Research, 2008, 113, .	3.3	78
15	Widespread biomass burning smoke throughout the remote troposphere. Nature Geoscience, 2020, 13, 422-427.	5.4	72
16	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7771-7796.	1.2	71
17	Atmospheric benzene observations from oil and gas production in the Denver-Julesburg Basin in July and August 2014. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,055.	1.2	70
18	Hazardous Air Pollutants in Fresh and Aged Western US Wildfire Smoke and Implications for Long-Term Exposure. Environmental Science & Technology, 2020, 54, 11838-11847.	4.6	69

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19	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6721-6744.	1.9	62
20	Airborne flux measurements of methane and volatile organic compounds over the Haynesville and Marcellus shale gas production regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6271-6289.	1.2	56
21	Aerosol transport and wet scavenging in deep convective clouds: A case study and model evaluation using a multiple passive tracer analysis approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8448-8468.	1.2	56
22	Emissions of Trace Organic Gases From Western U.S. Wildfires Based on WEâ€CAN Aircraft Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033838.	1.2	54
23	HONO Emissions from Western U.S. Wildfires Provide Dominant Radical Source in Fresh Wildfire Smoke. <i>Environmental Science & Technology</i> , 2020, 54, 5954-5963.	4.6	51
24	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	51
25	The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 106-128.	1.7	50
26	An examination of the chemistry of peroxy-carboxylic nitric anhydrides and related volatile organic compounds during Texas Air Quality Study 2000 using ground-based measurements. <i>Journal of Geophysical Research</i> , 2003, 108, ACH 4-1-ACH 4-12.	3.3	48
27	Atmospheric Acetaldehyde: Importance of Airâ€Sea Exchange and a Missing Source in the Remote Troposphere. <i>Geophysical Research Letters</i> , 2019, 46, 5601-5613.	1.5	41
28	Observation of Road Salt Aerosol Driving Inland Wintertime Atmospheric Chlorine Chemistry. <i>ACS Central Science</i> , 2020, 6, 684-694.	5.3	41
29	Tropospheric methanol observations from space: retrieval evaluation and constraints on the seasonality of biogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5897-5912.	1.9	39
30	The NASA Atmospheric Tomography (ATom) Mission: Imaging the Chemistry of the Global Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E761-E790.	1.7	39
31	Quantifying global terrestrial methanol emissions using observations from the TES satellite sensor. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2555-2570.	1.9	36
32	Importance of reactive halogens in the tropical marine atmosphere: a regional modelling study using WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3161-3189.	1.9	36
33	Daytime Oxidized Reactive Nitrogen Partitioning in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033484.	1.2	36
34	Constraining remote oxidation capacity with ATom observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7753-7781.	1.9	36
35	Analysis of the isoprene chemistry observed during the New England Air Quality Study (NEAQS) 2002 intensive experiment. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	34
36	Impact of the deep convection of isoprene and other reactive trace species on radicals and ozone in the upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1135-1150.	1.9	33

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37	A pervasive role for biomass burning in tropical high ozone/low water structures. <i>Nature Communications</i> , 2016, 7, 10267.	5.8	33
38	BrO and inferred Br and I profiles over the western Pacific: relevance of inorganic bromine sources and a minimum in the aged tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 15245-15270.	1.9	33
39	Exploring dimethyl sulfide (DMS) oxidation and implications for global aerosol radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1549-1573.	1.9	33
40	A comparison of isoprene nitrate concentrations at two forest-impacted sites. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	32
41	Formaldehyde in the Tropical Western Pacific: Chemical Sources and Sinks, Convective Transport, and Representation in CAM-Chem and the CCM1 Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11201-11226.	1.2	32
42	On the sources and sinks of atmospheric VOCs: an integrated analysis of recent aircraft campaigns over North America. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9097-9123.	1.9	32
43	Observations of APAN during TexAQS 2000. <i>Geophysical Research Letters</i> , 2001, 28, 4195-4198.	1.5	31
44	The Global Budget of Atmospheric Methanol: New Constraints on Secondary, Oceanic, and Terrestrial Sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033439.	1.2	31
45	Quality Assurance of Hydrocarbon Measurements for the German Tropospheric Research Focus (TFS). <i>Journal of Atmospheric Chemistry</i> , 2002, 42, 255-279.	1.4	30
46	Interactions of bromine, chlorine, and iodine photochemistry during ozone depletions in Barrow, Alaska. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9651-9679.	1.9	29
47	The O ₂ /N ₂ Ratio and CO ₂ Airborne Southern Ocean Study. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 381-402.	1.7	28
48	A comparison of very short lived halocarbon (VSLs) and DMS aircraft measurements in the tropical west Pacific from CAST, ATTREX and CONTRAST. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5213-5225.	1.2	27
49	Airborne quantification of upper tropospheric NO _x production from lightning in deep convective storms over the United States Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2002-2028.	1.2	25
50	Missing OH reactivity in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4013-4029.	1.9	25
51	Hydrocarbon Measurements During the 1992 Southern Oxidants Study Atlanta Intensive: Protocol and Quality Assurance. <i>Journal of the Air and Waste Management Association</i> , 1995, 45, 521-528.	0.9	24
52	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031685.	1.2	23
53	Reactive halogens increase the global methane lifetime and radiative forcing in the 21st century. <i>Nature Communications</i> , 2022, 13, 2768.	5.8	20
54	Evaluating the Impact of Chemical Complexity and Horizontal Resolution on Tropospheric Ozone Over the Conterminous US With a Global Variable Resolution Chemistry Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	20

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55	Bimodal distribution of free tropospheric ozone over the tropical western Pacific revealed by airborne observations. <i>Geophysical Research Letters</i> , 2015, 42, 7844-7851.	1.5	18
56	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7461-7488.	1.2	18
57	Ocean Biogeochemistry Control on the Marine Emissions of Brominated Very Short-Lived Ozone-Depleting Substances: A Machine-Learning Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12319-12339.	1.2	17
58	Global Atmospheric Budget of Acetone: Air-Sea Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032553.	1.2	17
59	Observations and Modeling of NO _x Photochemistry and Fate in Fresh Wildfire Plumes. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2652-2667.	1.2	17
60	Arctic springtime observations of volatile organic compounds during the OASIS-2009 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9789-9813.	1.2	16
61	Airborne measurements of BrO and the sum of HOBr and Br ₂ over the Tropical West Pacific from 1 to 15°km during the CONvective TRansport of Active Species in the Tropics (CONTRAST) experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12,560.	1.2	16
62	Chemical Tomography in a Fresh Wildland Fire Plume: A Large Eddy Simulation (LES) Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035203.	1.2	16
63	Wintertime Overnight NO _x Removal in a Southeastern United States Coal-fired Power Plant Plume: A Model for Understanding Winter NO _x Processing and its Implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1412-1425.	1.2	14
64	HCOOH in the Remote Atmosphere: Constraints from Atmospheric Tomography (ATom) Airborne Observations. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1436-1454.	1.2	13
65	Empirical Insights Into the Fate of Ammonia in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033730.	1.2	12
66	Exposure to Particulate Matter and Estimation of Volatile Organic Compounds across Wildland Firefighter Job Tasks. <i>Environmental Science & Technology</i> , 2021, 55, 11795-11804.	4.6	9
67	Source and variability of formaldehyde (HCHO) at northern high latitudes: an integrated satellite, aircraft, and model study. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7163-7178.	1.9	9
68	Use of Airborne In Situ VOC Measurements to Estimate Transit Time Spectrum: An Observation-Based Diagnostic of Convective Transport. <i>Geophysical Research Letters</i> , 2018, 45, 13,150.	1.5	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.	1.2	8
70	Evidence for an Oceanic Source of Methyl Ethyl Ketone to the Atmosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086045.	1.5	8
71	Evidence of Nighttime Production of Organic Nitrates During SEAC 4 RS, FRAPP%, and KORUS-AQ. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087860.	1.5	7
72	The CU Airborne Solar Occultation Flux Instrument: Performance Evaluation during BB-FLUX. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 582-596.	1.2	7

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73	Unpiloted Aircraft System Instrument for the Rapid Collection of Whole Air Samples and Measurements for Environmental Monitoring and Air Quality Studies. <i>Environmental Science & Technology</i> , 2021, 55, 5657-5667.	4.6	6
74	The Role of Snow in Controlling Halogen Chemistry and Boundary Layer Oxidation During Arctic Spring: A 1D Modeling Case Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	6
75	Wintertime Transport of Reactive Trace Gases From East Asia Into the Deep Tropics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,877.	1.2	5
76	Wildfire-driven changes in the abundance of gas-phase pollutants in the city of Boise, ID during summer 2018. <i>Atmospheric Pollution Research</i> , 2022, 13, 101269.	1.8	5
77	Ozone depletion due to dust release of iodine in the free troposphere. <i>Science Advances</i> , 2021, 7, eabj6544.	4.7	5
78	Initial Results From the Non-Methane Hydrocarbon Intercomparison Experiment. <i>Journal of the Chinese Chemical Society</i> , 1994, 41, 279-286.	0.8	4
79	A Lagrangian Model Diagnosis of Stratospheric Contributions to Tropical Midtropospheric Air. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9764-9785.	1.2	4
80	Deriving Tropospheric Transit Time Distributions Using Airborne Trace Gas Measurements: Uncertainty and Information Content. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034358.	1.2	2