

Alan Fried

List of Publications by Citations

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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

3,715
citations

35
h-index

60
g-index

80
ext. papers

4,194
ext. citations

5
avg, IF

4.3
L-index

#	Paper	IF	Citations
75	Surface and lightning sources of nitrogen oxides over the United States: Magnitudes, chemical evolution, and outflow. <i>Journal of Geophysical Research</i> , 2007 , 112,		257
74	Effect of petrochemical industrial emissions of reactive alkenes and NO _x on tropospheric ozone formation in Houston, Texas. <i>Journal of Geophysical Research</i> , 2003 , 108,		225
73	Analysis of the atmospheric distribution, sources, and sinks of oxygenated volatile organic chemicals based on measurements over the Pacific during TRACE-P. <i>Journal of Geophysical Research</i> , 2004 , 109,		194
72	Boreal forest fire emissions in fresh Canadian smoke plumes: C ₁ -C ₁₀ volatile organic compounds (VOCs), CO ₂ , CO, NO ₂ , NO, HCN and CH ₃ CN. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6445-6463	6.8	178
71	Ozone production rates as a function of NO _x abundances and HO _x production rates in the Nashville urban plume. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 7-1		178
70	OH and HO ₂ concentrations, sources, and loss rates during the Southern Oxidants Study in Nashville, Tennessee, summer 1999. <i>Journal of Geophysical Research</i> , 2003 , 108,		152
69	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1281-1309	6.1	140
68	Signatures of terminal alkene oxidation in airborne formaldehyde measurements during TexAQ5 2000. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		115
67	Primary and secondary sources of formaldehyde in urban atmospheres: Houston Texas region. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3273-3288	6.8	107
66	Measured and modeled CO and NO _y in DISCOVER-AQ: An evaluation of emissions and chemistry over the eastern US. <i>Atmospheric Environment</i> , 2014 , 96, 78-87	5.3	92
65	Evaluation of GOME satellite measurements of tropospheric NO ₂ and HCHO using regional data from aircraft campaigns in the southeastern United States. <i>Journal of Geophysical Research</i> , 2004 , 109,		89
64	Laboratory, ground-based, and airborne tunable diode laser systems: performance characteristics and applications in atmospheric studies. <i>Applied Physics B: Lasers and Optics</i> , 1998 , 67, 317-330	1.9	82
63	High levels of molecular chlorine in the Arctic atmosphere. <i>Nature Geoscience</i> , 2014 , 7, 91-94	18.3	79
62	Observing atmospheric formaldehyde (HCHO) from space: validation and intercomparison of six retrievals from four satellites (OMI, GOME2A, GOME2B, OMPS) with SEACRS aircraft observations over the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13477-13490	6.8	75
61	Summertime influence of Asian pollution in the free troposphere over North America. <i>Journal of Geophysical Research</i> , 2007 , 112,		72
60	Coupled evolution of BrO _x -ClO _x -HO _x -NO _x chemistry during bromine-catalyzed ozone depletion events in the arctic boundary layer. <i>Journal of Geophysical Research</i> , 2003 , 108,		72
59	Ozone depletion events observed in the high latitude surface layer during the TOPSE aircraft program. <i>Journal of Geophysical Research</i> , 2003 , 108, TOP 4-1		67

58	First demonstration of a high performance difference frequency spectrometer on airborne platforms. <i>Optics Express</i> , 2007 , 15, 13476-95	3.3	64
57	Airborne tunable diode laser measurements of formaldehyde during TRACE-P: Distributions and box model comparisons. <i>Journal of Geophysical Research</i> , 2003 , 108,		61
56	Observations of inorganic bromine (HOBr, BrO, and Br ₂) speciation at Barrow, Alaska, in spring 2009. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		58
55	Nitrous acid (HONO) during polar spring in Barrow, Alaska: A net source of OH radicals?. <i>Journal of Geophysical Research</i> , 2011 , 116,		58
54	Ultra-high-precision mid-IR spectrometer II: system description and spectroscopic performance. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 85, 207-218	1.9	58
53	Compact highly sensitive multi-species airborne mid-IR spectrometer. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 119, 119-131	1.9	55
52	Tunable diode laser measurements of formaldehyde during the TOPSE 2000 study: Distributions, trends, and model comparisons. <i>Journal of Geophysical Research</i> , 2003 , 108,		53
51	Testing fast photochemical theory during TRACE-P based on measurements of OH, HO ₂ , and CH ₂ O. <i>Journal of Geophysical Research</i> , 2004 , 109,		50
50	New insights into the column CH ₂ O/NO ₂ ratio as an indicator of near-surface ozone sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8885-8907	4.4	49
49	Hydrogen peroxide, methyl hydroperoxide, and formaldehyde over North America and the North Atlantic. <i>Journal of Geophysical Research</i> , 2007 , 112,		49
48	Steady state free radical budgets and ozone photochemistry during TOPSE. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
47	Design and performance of a tunable diode laser absorption spectrometer for airborne formaldehyde measurements. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
46	High-resolution inversion of OMI formaldehyde columns to quantify isoprene emission on ecosystem-relevant scales: application to the southeast US. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5483-5497	6.8	43
45	Large-scale ozone and aerosol distributions, air mass characteristics, and ozone fluxes over the western Pacific Ocean in late winter/early spring. <i>Journal of Geophysical Research</i> , 2003 , 108,		42
44	On the effectiveness of nitrogen oxide reductions as a control over ammonium nitrate aerosol. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2575-2596	6.8	41
43	Peroxy radical behavior during the Transport and Chemical Evolution over the Pacific (TRACE-P) campaign as measured aboard the NASA P-3B aircraft. <i>Journal of Geophysical Research</i> , 2003 , 108,		39
42	Vertical profiles of HDO/H ₂ O in the troposphere. <i>Journal of Geophysical Research</i> , 2005 , 110,		38
41	Revisiting the effectiveness of HCHO/NO ₂ ratios for inferring ozone sensitivity to its precursors using high resolution airborne remote sensing observations in a high ozone episode during the KORUS-AQ campaign. <i>Atmospheric Environment</i> , 2020 , 224, 117341	5.3	35

40	Comparisons of box model calculations and measurements of formaldehyde from the 1997 North Atlantic Regional Experiment. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 3-1		35
39	Large vertical gradient of reactive nitrogen oxides in the boundary layer: Modeling analysis of DISCOVER-AQ 2011 observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 1922-1934	4.4	33
38	Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B and MILAGRO campaigns: potential evidence for significant impacts of unmeasured and multi-generation volatile organic carbon compounds. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11867-11894	6.8	32
37	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	6.8	30
36	Revisiting global fossil fuel and biofuel emissions of ethane. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 2493-2512	4.4	29
35	The Korea-United States Air Quality (KORUS-AQ) field study.. <i>Elementa</i> , 2021 , 9, 1-27	3.6	27
34	Estimating Methane Emissions From Underground Coal and Natural Gas Production in Southwestern Pennsylvania. <i>Geophysical Research Letters</i> , 2019 , 46, 4531-4540	4.9	24
33	Wet scavenging of soluble gases in DC3 deep convective storms using WRF-Chem simulations and aircraft observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 4233-4257	4.4	24
32	Convective transport of formaldehyde to the upper troposphere and lower stratosphere and associated scavenging in thunderstorms over the central United States during the 2012 DC3 study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7430-7460	4.4	23
31	Interactions of bromine, chlorine, and iodine photochemistry during ozone depletions in Barrow, Alaska. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9651-9679	6.8	22
30	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1327-1338	6.8	22
29	Evaluation of simulated O3 production efficiency during the KORUS-AQ campaign: Implications for anthropogenic NOx emissions in Korea. <i>Elementa</i> , 2019 , 7,	3.6	22
28	Convective transport and scavenging of peroxides by thunderstorms observed over the central U.S. during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 4272-4295	4.4	20
27	Difference frequency generation spectrometer for simultaneous multispecies detection. <i>Optics Express</i> , 2010 , 18, 27670-81	3.3	20
26	Tunable diode laser studies of the reaction of Cl atoms with CH3CHO. <i>International Journal of Chemical Kinetics</i> , 1999 , 31, 766-775	1.4	20
25	Impacts of the Denver Cyclone on regional air quality and aerosol formation in the Colorado Front Range during FRAPPE2014. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12039-12058	6.8	19
24	Observation-based modeling of ozone chemistry in the Seoul metropolitan area during the Korea-United States Air Quality Study (KORUS-AQ). <i>Elementa</i> , 2020 , 8,	3.6	19
23	Using observations and source specific model tracers to characterize pollutant transport during FRAPPE and DISCOVER-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10510-10538	4.4	18

22	The NO _x dependence of bromine chemistry in the Arctic atmospheric boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10799-10809	6.8	18
21	Multispecies Assessment of Factors Influencing Regional CO ₂ and CH ₄ Enhancements During the Winter 2017 ACT-America Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031339	4.4	17
20	Modeling NHNO Over the San Joaquin Valley During the 2013 DISCOVER-AQ Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4727-4745	4.4	15
19	An inversion of NO _x and non-methane volatile organic compound (NMVOC) emissions using satellite observations during the KORUS-AQ campaign and implications for surface ozone over East Asia. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9837-9854	6.8	15
18	Formaldehyde column density measurements as a suitable pathway to estimate near-surface ozone tendencies from space. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13088-13112	4.4	14
17	Forward Modeling and Optimization of Methane Emissions in the South Central United States Using Aircraft Transects Across Frontal Boundaries. <i>Geophysical Research Letters</i> , 2019 , 46, 13564-13573	4.9	14
16	Photochemistry in the Arctic Free Troposphere: Ozone Budget and Its Dependence on Nitrogen Oxides and the Production Rate of Free Radicals. <i>Journal of Atmospheric Chemistry</i> , 2004 , 47, 107-138	3.2	13
15	Effects of Scavenging, Entrainment, and Aqueous Chemistry on Peroxides and Formaldehyde in Deep Convective Outflow Over the Central and Southeast United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 7594-7614	4.4	12
14	Characterizing CO and NO _y Sources and Relative Ambient Ratios in the Baltimore Area Using Ambient Measurements and Source Attribution Modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 3304-3320	4.4	10
13	Spatial and temporal variability of trace gas columns derived from WRF/Chem regional model output: Planning for geostationary observations of atmospheric composition. <i>Atmospheric Environment</i> , 2015 , 118, 28-44	5.3	10
12	The Atmospheric Carbon and Transport (ACT)-America Mission. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, E1714-E1734	6.1	10
11	Contrasting aerosol refractive index and hygroscopicity in the inflow and outflow of deep convective storms: Analysis of airborne data from DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4565-4577	4.4	9
10	Atmospheric implications of large C-C alkane emissions from the U.S. oil and gas industry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 1148-1169	4.4	9
9	Sources and characteristics of summertime organic aerosol in the Colorado Front Range: perspective from measurements and WRF-Chem modeling. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8293-8312	6.8	9
8	Estimator of Surface Ozone Using Formaldehyde and Carbon Monoxide Concentrations Over the Eastern United States in Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 7642	4.4	9
7	Impacts of physical parameterization on prediction of ethane concentrations for oil and gas emissions in WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16863-16883	6.8	8
6	Analysis of Oil and Gas Ethane and Methane Emissions in the Southcentral and Eastern United States Using Four Seasons of Continuous Aircraft Ethane Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034194	4.4	7
5	Atmospheric Carbon and Transport - America (ACT-America) Data Sets: Description, Management, and Delivery. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001634	3.1	7

4	Autonomous airborne mid-infrared spectrometer for high-precision measurements of ethane during the NASA ACT-America studies. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 6095-6112	4	2
3	Photochemical evolution of the 2013 California Rim Fire: synergistic impacts of reactive hydrocarbons and enhanced oxidants. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 4253-4275	6.8	2
2	Vertical Transport, Entrainment, and Scavenging Processes Affecting Trace Gases in a Modeled and Observed SEAC4RS Case Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031957	4.4	1
1	Atmospheric Carbon and Transport in America (ACT-America) Datasets: Description, Management, and Delivery		1