

J P Digangi

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

2,663
citations

172457

29
h-index

233421

45
g-index

130
all docs

130
docs citations

130
times ranked

3274
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8009-8020.	4.9	211
2	Aircraft measurements of BrO, IO, glyoxal, NO ₂ , H ₂ O, O ₃ , and aerosol extinction profiles in the tropics: comparison with aircraft-/ship-based in situ and lidar measurements. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2121-2148.	3.1	107
3	Secondary organic aerosol production from local emissions dominates the organic aerosol budget over Seoul, South Korea, during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17769-17800.	4.9	105
4	First direct measurements of formaldehyde flux via eddy covariance: implications for missing in-canopy formaldehyde sources. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10565-10578.	4.9	101
5	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley, California. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3373-3395.	4.9	92
6	Active and widespread halogen chemistry in the tropical and subtropical free troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9281-9286.	7.1	91
7	Comparison of different real time VOC measurement techniques in a ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2893-2906.	4.9	83
8	The NASA Airborne Tropical Tropopause Experiment: High-Altitude Aircraft Measurements in the Tropical Western Pacific. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 129-143.	3.3	79
9	A Laser Induced Fluorescence-Based Instrument for In-Situ Measurements of Atmospheric Formaldehyde. <i>Environmental Science & Technology</i> , 2009, 43, 790-795.	10.0	72
10	Observations of glyoxal and formaldehyde as metrics for the anthropogenic impact on rural photochemistry. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9529-9543.	4.9	71
11	The distribution of sea-salt aerosol in the global troposphere. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4093-4104.	4.9	68
12	Laser-Induced Phosphorescence for the in Situ Detection of Glyoxal at Part per Trillion Mixing Ratios. <i>Analytical Chemistry</i> , 2008, 80, 5884-5891.	6.5	67
13	Convective transport of water vapor into the lower stratosphere observed during double-tropopause events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,941-10,958.	3.3	63
14	Evaluation of HO _x sources and cycling using measurement-constrained model calculations in a 2-methyl-3-butene-2-ol (MBO) and monoterpene (MT) dominated ecosystem. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2031-2044.	4.9	62
15	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6345-6367.	4.9	62
16	Missing peroxy radical sources within a summertime ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4715-4732.	4.9	56
17	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, .	7.1	51
18	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,368.	3.3	49

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19	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , 2021, 7, eabl3648.	10.3	45
20	Investigation of factors controlling PM _{2.5} variability across the South Korean Peninsula during KORUS-AQ. <i>Elementa</i> , 2020, 8, .	3.2	44
21	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8883-8897.	4.9	41
22	Cropland Carbon Uptake Delayed and Reduced by 2019 Midwest Floods. <i>AGU Advances</i> , 2020, 1, e2019AV000140.	5.4	41
23	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.	3.3	39
24	Evaluating high-resolution forecasts of atmospheric CO and CO ₂ from a global prediction system during KORUS-AQ field campaign. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11007-11030.	4.9	35
25	Observations of Greenhouse Gas Changes Across Summer Frontal Boundaries in the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD030526.	3.3	34
26	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16293-16317.	4.9	34
27	Estimating Methane Emissions From Underground Coal and Natural Gas Production in Southwestern Pennsylvania. <i>Geophysical Research Letters</i> , 2019, 46, 4531-4540.	4.0	32
28	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, .	3.2	32
29	Using Short-Term CO/CO ₂ Ratios to Assess Air Mass Differences Over the Korean Peninsula During KORUS-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10951-10972.	3.3	31
30	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090707.	4.0	30
31	Adaptation and performance assessment of a quantum and interband cascade laser spectrometer for simultaneous airborne in situ observation of CH ₄ , C ₂ H ₆ , CO ₂ , CO and N ₂ O. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1767-1782.	3.1	29
32	On the Susceptibility of Cold Tropical Cirrus to Ice Nuclei Abundance. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 2445-2464.	1.7	28
33	Anthropogenic Control Over Wintertime Oxidation of Atmospheric Pollutants. <i>Geophysical Research Letters</i> , 2019, 46, 14826-14835.	4.0	28
34	Rapid cloud removal of dimethyl sulfide oxidation products limits SO ₂ and cloud condensation nuclei production in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	28
35	Missing OH reactivity in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4013-4029.	4.9	25
36	Impacts of the Denver Cyclone on regional air quality and aerosol formation in the Colorado Front Range during FRAPP ²⁰¹⁴ . <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12039-12058.	4.9	24

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37	Formaldehyde evolution in US wildfire plumes during the Fire Influence on Regional to Global Environments and Air Quality experiment (FIREX-AQ). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18319-18331.	4.9	24
38	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.	3.3	23
39	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031685.	3.3	23
40	Measurement report: Long-range transport patterns into the tropical northwest Pacific during the CAMP<sup>2</sup>Ex aircraft campaign: chemical composition, size distributions, and the impact of convection. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3777-3802.	4.9	22
41	Source Contributions to Carbon Monoxide Concentrations During KORUS<sup>2</sup>AQ Based on CAM<sup>chem</sup> Model Applications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2796-2822.	3.3	21
42	Dynamical Downscaling of CO ₂ in 2016 Over the Contiguous United States Using WRF<sup>VPRM</sup>, a Weather<sup>Biosphere</sup>Online<sup>Coupled</sup> Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001875.	3.8	21
43	Validation of satellite formaldehyde (HCHO) retrievals using observations from 12 aircraft campaigns. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12329-12345.	4.9	21
44	Characteristics and evolution of brown carbon in western United States wildfires. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8009-8036.	4.9	21
45	Physical processes controlling the spatial distributions of relative humidity in the tropical tropopause layer over the Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6094-6107.	3.3	20
46	Spatial heterogeneity in CO ₂ , CH ₄ , and energy fluxes: insights from airborne eddy covariance measurements over the Mid-Atlantic region. <i>Environmental Research Letters</i> , 2020, 15, 035008.	5.2	19
47	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.	4.0	18
48	Aircraft-based observation of meteoric material in lower-stratospheric aerosol particles between 15 and 68<sup>o</sup>N. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 989-1013.	4.9	18
49	Global Atmospheric Budget of Acetone: Air<sup>Sea</sup> Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032553.	3.3	17
50	The Atmospheric Carbon and Transport (ACT)-America Mission. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1714-E1734.	3.3	17
51	Heterogeneous Ice Nucleation in the Tropical Tropopause Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,210.	3.3	16
52	Airborne Measurements of Contrail Ice Properties<sup>Dependence</sup> on Temperature and Humidity. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092166.	4.0	16
53	Evaluation of Regional CO ₂ Mole Fractions in the ECMWF CAMS Real<sup>Time</sup> Atmospheric Analysis and NOAA CarbonTracker Near<sup>Real</sup>Time Reanalysis With Airborne Observations From ACT-America Field Campaigns. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8119-8133.	3.3	15
54	Atmospheric Carbon and Transport <sup>ACT</sup>-America (ACT-America) Data Sets: Description, Management, and Delivery. <i>Earth and Space Science</i> , 2021, 8, e2020EA001634.	2.6	15

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55	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15023-15063.	4.9	15
56	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. <i>Environmental Science & Technology</i> , 2022, 56, 7564-7577.	10.0	15
57	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.	3.3	14
58	Numerical simulation of atmospheric CO ₂ concentration and flux over the Korean Peninsula using WRF-VPRM model during Korus-AQ 2016 campaign. <i>PLoS ONE</i> , 2020, 15, e0228106.	2.5	12
59	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science & Technology</i> , 2021, 55, 15646-15657.	10.0	11
60	Airborne Testing of 2- μ m Pulsed IPDA Lidar for Active Remote Sensing of Atmospheric Carbon Dioxide. <i>Atmosphere</i> , 2021, 12, 412.	2.3	10
61	Reconciling Assumptions in Bottom-Up and Top-Down Approaches for Estimating Aerosol Emission Rates From Wildland Fires Using Observations From FIRE-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	10
62	Observations and modeling of formaldehyde at the PROPHET mixed hardwood forest site in 2008. <i>Atmospheric Environment</i> , 2012, 49, 403-410.	4.1	9
63	Dynamical conditions of ice supersaturation and ice nucleation in convective systems: A comparative analysis between in situ aircraft observations and WRF simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2844-2866.	3.3	9
64	Wintertime Formaldehyde: Airborne Observations and Source Apportionment Over the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033518.	3.3	9
65	Cold Air Outbreaks Promote New Particle Formation Off the U.S. East Coast. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
66	An assessment of the radiative effects of ice supersaturation based on in situ observations. <i>Geophysical Research Letters</i> , 2016, 43, 11,039.	4.0	8
67	Large hemispheric difference in nucleation mode aerosol concentrations in the lowermost stratosphere at mid- and high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9065-9088.	4.9	8
68	Fossil Versus Nonfossil CO Sources in the US: New Airborne Constraints From ACT-America and GEM. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093361.	4.0	8
69	Seasonal Variability in Local Carbon Dioxide Biomass Burning Sources Over Central and Eastern US Using Airborne In Situ Enhancement Ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034525.	3.3	8
70	Characteristics of greenhouse gas concentrations derived from ground-based FTS spectra at Anmyeondo, South Korea. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2361-2374.	3.1	7
71	Observations of atmospheric oxidation and ozone production in South Korea. <i>Atmospheric Environment</i> , 2022, 269, 118854.	4.1	6
72	Satellite soil moisture data assimilation impacts on modeling weather variables and ozone in the southeastern US – Part 1: An overview. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11013-11040.	4.9	5

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73	Field observational constraints on the controllers in glyoxal (CHOCHO) reactive uptake to aerosol. Atmospheric Chemistry and Physics, 2022, 22, 805-821.	4.9	5
74	Examining CO ₂ Model Observation Residuals Using ACT-America Data. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034481.	3.3	4
75	Validation of XCO ₂ and XCH ₄ retrieved from a portable Fourier transform spectrometer with those from in situ profiles from aircraft-borne instruments. Atmospheric Measurement Techniques, 2020, 13, 5149-5163.	3.1	3
76	Autonomous airborne mid-infrared spectrometer for high-precision measurements of ethane during the NASA ACT-America studies. Atmospheric Measurement Techniques, 2020, 13, 6095-6112.	3.1	2