

Kyle J Zarzana

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,577
citations

304743

22
h-index

434195

31
g-index

52
all docs

52
docs citations

52
times ranked

2164
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3299-3319.	4.9	233
2	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8585-8605.	4.9	150
3	High- and low-temperature pyrolysis profiles describe volatile organic compound emissions from western US wildfire fuels. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9263-9281.	4.9	102
4	Rayleigh scattering cross-section measurements of nitrogen, argon, oxygen and air. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 147, 171-177.	2.3	101
5	A broadband cavity enhanced absorption spectrometer for aircraft measurements of glyoxal, methylglyoxal, nitrous acid, nitrogen dioxide, and water vapor. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 423-440.	3.1	93
6	OH chemistry of non-methane organic gases (NMOGs) emitted from laboratory and ambient biomass burning smoke: evaluating the influence of furans and oxygenated aromatics on ozone and secondary NMOG formation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14875-14899.	4.9	92
7	Coupling between Chemical and Meteorological Processes under Persistent Cold-Air Pool Conditions: Evolution of Wintertime PM _{2.5} Pollution Events and N ₂ O ₅ Observations in Utah's Salt Lake Valley. <i>Environmental Science & Technology</i> , 2017, 51, 5941-5950.	10.0	78
8	Optical Properties of the Products of α -Dicarbonyl and Amine Reactions in Simulated Cloud Droplets. <i>Environmental Science & Technology</i> , 2012, 46, 4845-4851.	10.0	74
9	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. <i>Environmental Science & Technology</i> , 2019, 53, 2529-2538.	10.0	68
10	Sensitivity of Aerosol Refractive Index Retrievals Using Optical Spectroscopy. <i>Aerosol Science and Technology</i> , 2014, 48, 1133-1144.	3.1	58
11	Secondary organic aerosol formation from in situ OH, O ₃ , and NO ₃ ; oxidation of ambient forest air in an oxidation flow reactor. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5331-5354.	4.9	57
12	The nitrogen budget of laboratory-simulated western US wildfires during the FIREX 2016 Fire Lab study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8807-8826.	4.9	45
13	Broadband cavity-enhanced absorption spectroscopy in the ultraviolet spectral region for measurements of nitrogen dioxide and formaldehyde. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 41-52.	3.1	44
14	Measurement of NO ₃ and N ₂ O ₅ in a Residential Kitchen. <i>Environmental Science and Technology Letters</i> , 2018, 5, 595-599.	8.7	44
15	Emissions of Glyoxal and Other Carbonyl Compounds from Agricultural Biomass Burning Plumes Sampled by Aircraft. <i>Environmental Science & Technology</i> , 2017, 51, 11761-11770.	10.0	38
16	Primary emissions of glyoxal and methylglyoxal from laboratory measurements of open biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15451-15470.	4.9	28
17	Isotopic characterization of nitrogen oxides (NO _x), nitrous acid (HONO), and nitrate (NO ₃) from laboratory biomass burning during FIREX. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6303-6317.	3.1	27
18	Biomass burning nitrogen dioxide emissions derived from space with TROPOMI: methodology and validation. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7929-7957.	3.1	27

#	ARTICLE	IF	CITATIONS
19	Impact of Organic Coating on Optical Growth of Ammonium Sulfate Particles. <i>Environmental Science & Technology</i> , 2013, 47, 13339-13346.	10.0	25
20	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 573-583.	4.9	24
21	Quantifying Methane and Ozone Precursor Emissions from Oil and Gas Production Regions across the Contiguous US. <i>Environmental Science & Technology</i> , 2021, 55, 9129-9139.	10.0	23
22	Kinetics of the Reactions of NO ₃ Radical with Methacrylate Esters. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4464-4474.	2.5	22
23	Characterization of a catalyst-based conversion technique to measure total particulate nitrogen and organic carbon and comparison to a particle mass measurement instrument. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2749-2768.	3.1	21
24	Evaluation of the accuracy of thermal dissociation CRDS and LIF techniques for atmospheric measurement of reactive nitrogen species. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1911-1926.	3.1	18
25	Erratum to "Rayleigh scattering cross-section measurements of nitrogen, argon, oxygen and air" <i>Quant Spectrosc Radiat Transf</i> 147 (2014) 171-177. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 189, 281-282.	2.3	13
26	Kinetics of the reactions of NO ₃ radical with alkanes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4246-4257.	2.8	12
27	The optical and chemical properties of discharge generated organic haze using in-situ real-time techniques. <i>Icarus</i> , 2017, 294, 1-13.	2.5	11
28	The CU Airborne Solar Occultation Flux Instrument: Performance Evaluation during BB-FLUX. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 582-596.	2.7	7
29	Carbon Monoxide in Optically Thick Wildfire Smoke: Evaluating TROPOMI Using CU Airborne SOF Column Observations. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1799-1812.	2.7	6
30	A Comparison of Multitemporal Airborne Laser Scanning Data and the Fuel Characteristics Classification System for Estimating Fuel Load and Consumption. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	3
31	Wildfire Smoke Observations in the Western U.S. from the Airborne Wyoming Cloud Lidar during the BB-FLUX Project. Part I: Data Description and Methodology. <i>Journal of Atmospheric and Oceanic Technology</i> , 2022, , .	1.3	2