

Nicholas L Wagner

List of Publications by Year in Descending Order

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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.

62

papers

3,868

citations

33

h-index

62

g-index

65

ext. papers

4,423

ext. citations

6.9

avg, IF

4.58

L-index

#	Paper	IF	Citations
62	Laser imaging nephelometer for aircraft deployment. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 1093-1105	4	0
61	THE NASA ATMOSPHERIC TOMOGRAPHY (ATom) MISSION: Imaging the Chemistry of the Global Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 2021 , 1-53	6.1	6
60	Complex refractive indices in the ultraviolet and visible spectral region for highly absorbing non-spherical biomass burning aerosol. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 7235-7252	6.8	1
59	Sizing response of the Ultra-High Sensitivity Aerosol Spectrometer (UHSAS) and Laser Aerosol Spectrometer (LAS) to changes in submicron aerosol composition and refractive index. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 4517-4542	4	4
58	Global Measurements of Brown Carbon and Estimated Direct Radiative Effects. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088747	4.9	26
57	Evidence in biomass burning smoke for a light-absorbing aerosol with properties intermediate between brown and black carbon. <i>Aerosol Science and Technology</i> , 2019 , 53, 976-989	3.4	22
56	Aerosol size distributions during the Atmospheric Tomography Mission (ATom): methods, uncertainties, and data products. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 3081-3099	4	38
55	Investigating biomass burning aerosol morphology using a laser imaging nephelometer. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1879-1894	6.8	11
54	An intercomparison of aerosol absorption measurements conducted during the SEAC4RS campaign. <i>Aerosol Science and Technology</i> , 2018 , 52, 1012-1027	3.4	14
53	Limited impact of sulfate-driven chemistry on black carbon aerosol aging in power plant plumes. <i>AIMS Environmental Science</i> , 2018 , 5, 195-215	1.9	1
52	Modification, calibration, and performance of the Ultra-High Sensitivity Aerosol Spectrometer for particle size distribution and volatility measurements during the Atmospheric Tomography Mission (ATom) airborne campaign. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 369-383	4	49
51	Cavity enhanced spectroscopy for measurement of nitrogen oxides in the Anthropocene: results from the Seoul tower during MAPS 2015. <i>Faraday Discussions</i> , 2017 , 200, 529-557	3.6	17
50	Emissions of Glyoxal and Other Carbonyl Compounds from Agricultural Biomass Burning Plumes Sampled by Aircraft. <i>Environmental Science & Technology</i> , 2017 , 51, 11761-11770	10.3	25
49	Secondary organic aerosol formation from in situ OH, O ₃ , and NO ₃ ; oxidation of ambient forest air in an oxidation flow reactor 2017 ,		1
48	Relative importance of black carbon, brown carbon, and absorption enhancement from clear coatings in biomass burning emissions. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5063-5078	6.8	64
47	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	6.8	46
46	Aerosol optical properties in the southeastern United States in summer [Part I]: Hygroscopic growth. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4987-5007	6.8	71

45	Aerosol optical properties in the southeastern United States in summer [Part 2]: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5009-5019	6.8	33
44	Parameterization of single-scattering albedo (SSA) and absorption Ångström exponent (AAE) with EC / OC for aerosol emissions from biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9549-9561	6.8	104
43	Surface dimming by the 2013 Rim Fire simulated by a sectional aerosol model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7079-7087	4.4	13
42	Evaluating N2O5 heterogeneous hydrolysis parameterizations for CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 5051-5070	4.4	26
41	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
40	Modeling the weekly cycle of NOx and CO emissions and their impacts on O3 in the Los Angeles-South Coast Air Basin during the CalNex 2010 field campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 1340-1360	4.4	43
39	Design of a Novel Open-Path Aerosol Extinction Cavity Ringdown Spectrometer. <i>Aerosol Science and Technology</i> , 2015 , 49, 717-726	3.4	12
38	Sources, seasonality, and trends of southeast US aerosol: an integrated analysis of surface, aircraft, and satellite observations with the GEOS-Chem chemical transport model. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10411-10433	6.8	168
37	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC&sup>4</sup>RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7085-7102	6.8	46
36	The primary and recycling sources of OH during the NACHTT-2011 campaign: HONO as an important OH primary source in the wintertime. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6886-6896	4.4	53
35	Trends in sulfate and organic aerosol mass in the Southeast U.S.: Impact on aerosol optical depth and radiative forcing. <i>Geophysical Research Letters</i> , 2014 , 41, 7701-7709	4.9	66
34	New insights into atmospheric sources and sinks of isocyanic acid, HNCO, from recent urban and regional observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1060-1072	4.4	31
33	N2O5 uptake coefficients and nocturnal NO2 removal rates determined from ambient wintertime measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9331-9350	4.4	72
32	Understanding the role of the ground surface in HONO vertical structure: High resolution vertical profiles during NACHTT-11. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 10,155-10,171	4.4	91
31	WRF-Chem simulation of NOx and O3 in the L.A. basin during CalNex-2010. <i>Atmospheric Environment</i> , 2013 , 81, 421-432	5.3	27
30	Nitrogen, Aerosol Composition, and Halogens on a Tall Tower (NACHTT): Overview of a wintertime air chemistry field study in the front range urban corridor of Colorado. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8067-8085	4.4	57
29	Chlorine activation within urban or power plant plumes: Vertically resolved ClNO2 and Cl2 measurements from a tall tower in a polluted continental setting. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8702-8715	4.4	81
28	Spatial and diurnal variability in reactive nitrogen oxide chemistry as reflected in the isotopic composition of atmospheric nitrate: Results from the CalNex 2010 field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 10,567-10,588	4.4	27

27	Vertically resolved chemical characteristics and sources of submicron aerosols measured on a Tall Tower in a suburban area near Denver, Colorado in winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 13,591-13,605	4.4	15
26	Heterogeneous Atmospheric Chemistry of Nitrogen Oxides: New Insights from Recent Field Measurements. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2013 , 125-138	0.3	
25	Nitryl chloride and molecular chlorine in the coastal marine boundary layer. <i>Environmental Science & Technology</i> , 2012 , 46, 10463-70	10.3	152
24	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	163
23	Airborne and ground-based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		84
22	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
21	The sea breeze/land breeze circulation in Los Angeles and its influence on nitryl chloride production in this region. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		40
20	Measurement of atmospheric ozone by cavity ring-down spectroscopy. <i>Environmental Science & Technology</i> , 2011 , 45, 2938-44	10.3	47
19	City lights and urban air. <i>Nature Geoscience</i> , 2011 , 4, 730-731	18.3	24
18	Diode laser-based cavity ring-down instrument for NO ₂ , NO ₃ , NO ₂ O ₂ , NO, NO ₂ , and O ₃ ; from aircraft. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 1227-1240	4	98
17	A large atomic chlorine source inferred from mid-continental reactive nitrogen chemistry. <i>Nature</i> , 2010 , 464, 271-4	50.4	471
16	Elliptically polarized high-order harmonic emission from molecules in linearly polarized laser fields. <i>Physical Review Letters</i> , 2009 , 102, 073902	7.4	165
15	Enhanced high harmonic generation from multiply ionized argon above 500 eV through laser pulse self-compression. <i>Physical Review Letters</i> , 2009 , 103, 143901	7.4	33
14	A sensitive and versatile detector for atmospheric NO ₂ and NO _x based on blue diode laser cavity ring-down spectroscopy. <i>Environmental Science & Technology</i> , 2009 , 43, 7831-6	10.3	101
13	Molecular recollision interferometry in high harmonic generation. <i>Physical Review Letters</i> , 2008 , 100, 073902	7.4	130
12	Extracting the phase of high-order harmonic emission from a molecule using transient alignment in mixed samples. <i>Physical Review A</i> , 2007 , 76,	2.6	50
11	Monitoring molecular dynamics using coherent electrons from high harmonic generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 13279-85	11.5	144
10	Phase matching, quasi-phase matching, and pulse compression in a single waveguide for enhanced high-harmonic generation. <i>Optics Letters</i> , 2005 , 30, 1971-3	3	15

9	High-order harmonic generation up to 250 eV from highly ionized argon. <i>Physical Review Letters</i> , 2004 , 92, 033001	7-4	97
8	Self-compression of ultrashort pulses through ionization-induced spatiotemporal reshaping. <i>Physical Review Letters</i> , 2004 , 93, 173902	7-4	85
7	Coherent soft x-ray generation in the water window with quasi-phase matching. <i>Science</i> , 2003 , 302, 95-833,3		286
6	Phase-matching conditions for nonlinear frequency conversion by use of aligned molecular gases. <i>Optics Letters</i> , 2003 , 28, 346-8	3	26
5	Phase modulation of ultrashort light pulses using molecular rotational wave packets. <i>Physical Review Letters</i> , 2002 , 88, 013903	7-4	195
4	Aerosol optical properties in the southeastern United States in summer [Part 1: Hygroscopic growth		5
3	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC<sup>4</sup></sup>RS: observations of a modest aerosol enhancement aloft		1
2	Aerosol optical properties in the southeastern United States in summer [Part 2: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters		6
1	Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013		6