

Nicholas L Wagner

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.

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	A large atomic chlorine source inferred from mid-continental reactive nitrogen chemistry. <i>Nature</i> , 2010 , 464, 271-4	50.4	471
61	Coherent soft x-ray generation in the water window with quasi-phase matching. <i>Science</i> , 2003 , 302, 95-833.3	33.3	286
60	Phase modulation of ultrashort light pulses using molecular rotational wave packets. <i>Physical Review Letters</i> , 2002 , 88, 013903	7.4	195
59	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
58	Elliptically polarized high-order harmonic emission from molecules in linearly polarized laser fields. <i>Physical Review Letters</i> , 2009 , 102, 073902	7.4	165
57	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
56	Nitryl chloride and molecular chlorine in the coastal marine boundary layer. <i>Environmental Science & Technology</i> , 2012 , 46, 10463-70	10.3	152
55	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
54	Molecular recollision interferometry in high harmonic generation. <i>Physical Review Letters</i> , 2008 , 100, 073902	7.4	130
53	Parameterization of single-scattering albedo (SSA) and absorption efficiency exponent (AAE) with EC / OC for aerosol emissions from biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9549-9561	6.8	104
52	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
51	Diode laser-based cavity ring-down instrument for NO ₂ , NO ₃ , O ₃ , NO, NO ₂ , and O ₃ from aircraft. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 1227-1240	4	98
50	High-order harmonic generation up to 250 eV from highly ionized argon. <i>Physical Review Letters</i> , 2004 , 92, 033001	7.4	97
49	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
48	Self-compression of ultrashort pulses through ionization-induced spatiotemporal reshaping. <i>Physical Review Letters</i> , 2004 , 93, 173902	7.4	85
47	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
46	Chlorine activation within urban or power plant plumes: Vertically resolved ClNO ₂ and Cl ₂ 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

45	N ₂ O ₅ uptake coefficients and nocturnal NO ₂ removal rates determined from ambient wintertime measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9331-9350	4.4	72
44	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
43	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
42	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
41	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
40	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
39	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
38	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
37	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
36	Measurement of atmospheric ozone by cavity ring-down spectroscopy. <i>Environmental Science & Technology</i> , 2011 , 45, 2938-44	10.3	47
35	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
34	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC ⁴ RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7085-7102	6.8	46
33	Modeling the weekly cycle of NO _x and CO emissions and their impacts on O ₃ 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
32	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
31	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
30	Aerosol optical properties in the southeastern United States in summer [Part II]: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5009-5019	6.8	33
29	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
28	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

27	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
26	WRF-Chem simulation of NO _x and O ₃ in the L.A. basin during CalNex-2010. <i>Atmospheric Environment</i> , 2013 , 81, 421-432	5.3	27
25	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
24	Global Measurements of Brown Carbon and Estimated Direct Radiative Effects. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088747	4.9	26
23	Evaluating N ₂ O ₅ heterogeneous hydrolysis parameterizations for CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 5051-5070	4.4	26
22	Phase-matching conditions for nonlinear frequency conversion by use of aligned molecular gases. <i>Optics Letters</i> , 2003 , 28, 346-8	3	26
21	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
20	City lights and urban air. <i>Nature Geoscience</i> , 2011 , 4, 730-731	18.3	24
19	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
18	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
17	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
16	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
15	An intercomparison of aerosol absorption measurements conducted during the SEAC4RS campaign. <i>Aerosol Science and Technology</i> , 2018 , 52, 1012-1027	3.4	14
14	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
13	Design of a Novel Open-Path Aerosol Extinction Cavity Ringdown Spectrometer. <i>Aerosol Science and Technology</i> , 2015 , 49, 717-726	3.4	12
12	Investigating biomass burning aerosol morphology using a laser imaging nephelometer. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1879-1894	6.8	11
11	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
10	Aerosol optical properties in the southeastern United States in summer [Part 2: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters]		6

9	Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013		6
8	Aerosol optical properties in the southeastern United States in summer [Part 1: Hygroscopic growth		5
7	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
6	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
5	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
4	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC ⁴ RS: observations of a modest aerosol enhancement aloft		1
3	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
2	Laser imaging nephelometer for aircraft deployment. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 1093-1105	4	0
1	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	