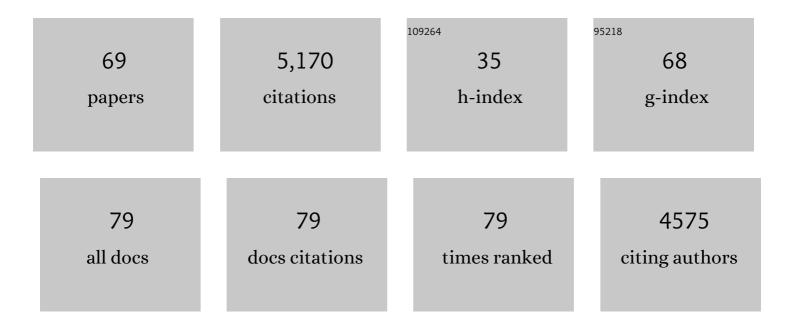
David Tarasick

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Unprecedented Arctic ozone loss in 2011. Nature, 2011, 478, 469-475.	13.7	572
2	Increasing springtime ozone mixing ratios in the free troposphere over western North America. Nature, 2010, 463, 344-348.	13.7	397
3	Long-term changes in tropospheric ozone. Atmospheric Environment, 2006, 40, 3156-3173.	1.9	345
4	Assessment of the performance of ECCâ€ozonesondes under quasiâ€flight conditions in the environmental simulation chamber: Insights from the Juelich Ozone Sonde Intercomparison Experiment (JOSIE). Journal of Geophysical Research, 2007, 112, .	3.3	282
5	Tropospheric ozone assessment report: Global ozone metrics for climate change, human health, and crop/ecosystem research. Elementa, 2018, 6, 1.	1.1	196
6	Recent tropospheric ozone changes – A pattern dominated by slow or no growth. Atmospheric Environment, 2013, 67, 331-351.	1.9	195
7	Climate variability modulates western US ozone air quality in spring via deep stratospheric intrusions. Nature Communications, 2015, 6, 7105.	5.8	186
8	Validation of Tropospheric Emission Spectrometer (TES) nadir ozone profiles using ozonesonde measurements. Journal of Geophysical Research, 2008, 113, .	3.3	181
9	Longâ€ŧerm ozone trends at rural ozone monitoring sites across the United States, 1990–2010. Journal of Geophysical Research, 2012, 117, .	3.3	180
10	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. Elementa, 2017, 5, .	1.1	172
11	Validation of Aura Microwave Limb Sounder Ozone by ozonesonde and lidar measurements. Journal of Geophysical Research, 2007, 112, .	3.3	133
12	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. Journal of Geophysical Research, 2006, 111, .	3.3	113
13	Tropospheric intrusions associated with the secondary tropopause. Journal of Geophysical Research, 2009, 114, .	3.3	110
14	Ozone in the Arctic lower troposphere during winter and spring 2000 (ALERT2000). Atmospheric Environment, 2002, 36, 2535-2544.	1.9	106
15	On the detection and utilization of gravity waves in airglow studies. Planetary and Space Science, 1987, 35, 851-866.	0.9	104
16	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. Elementa, 2019, 7, .	1.1	103
17	Technical Note: Ozonesonde climatology between 1995 and 2011: description, evaluation and applications. Atmospheric Chemistry and Physics, 2012, 12, 7475-7497.	1.9	101
18	Ground-based assessment of the bias and long-term stability of 14 limb and occultation ozone profile data records. Atmospheric Measurement Techniques, 2016, 9, 2497-2534.	1.2	92

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19	Tropospheric ozone in CMIP6 simulations. Atmospheric Chemistry and Physics, 2021, 21, 4187-4218.	1.9	89
20	Intercontinental Chemical Transport Experiment Ozonesonde Network Study (IONS) 2004: 1. Summertime upper troposphere/lower stratosphere ozone over northeastern North America. Journal of Geophysical Research, 2007, 112, .	3.3	82
21	Intercontinental Chemical Transport Experiment Ozonesonde Network Study (IONS) 2004: 2. Tropospheric ozone budgets and variability over northeastern North America. Journal of Geophysical Research, 2007, 112, .	3.3	77
22	Assimilated ozone from EOSâ€Aura: Evaluation of the tropopause region and tropospheric columns. Journal of Geophysical Research, 2008, 113, .	3.3	75
23	Nearâ€Complete Local Reduction of Arctic Stratospheric Ozone by Severe Chemical Loss in Spring 2020. Geophysical Research Letters, 2020, 47, e2020GL089547.	1.5	75
24	The Canadian operational procedure for forecasting total ozone and UV radiation. Meteorological Applications, 1994, 1, 247-265.	0.9	74
25	Revisiting the evidence of increasing springtime ozone mixing ratios in the free troposphere over western North America. Geophysical Research Letters, 2015, 42, 8719-8728.	1.5	69
26	Strategic ozone sounding networks: Review of design and accomplishments. Atmospheric Environment, 2011, 45, 2145-2163.	1.9	63
27	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. Atmospheric Chemistry and Physics, 2015, 15, 6721-6744.	1.9	62
28	The observable effects of gravity waves on airglow emissions. Planetary and Space Science, 1990, 38, 1105-1119.	0.9	58
29	Long-term trends of surface ozone and its influencing factors at the Mt Waliguan GAW station, China – Part 2: The roles of anthropogenic emissions and climate variability. Atmospheric Chemistry and Physics, 2018, 18, 773-798.	1.9	56
30	Enhanced ozone over western North America from biomass burning in Eurasia during April 2008 as seen in surface and profile observations. Atmospheric Environment, 2010, 44, 4497-4509.	1.9	55
31	Multi-decadal surface ozone trends at globally distributed remote locations. Elementa, 2020, 8, .	1.1	54
32	Validation of 10-year SAO OMI Ozone Profile (PROFOZ) product using ozonesonde observations. Atmospheric Measurement Techniques, 2017, 10, 2455-2475.	1.2	53
33	COVIDâ€∎9 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. Geophysical Research Letters, 2021, 48, e2020CL091987.	1.5	51
34	Effects of gravity waves on complex airglow chemistries: 2. OH emission. Journal of Geophysical Research, 1992, 97, 3195-3208.	3.3	48
35	Ozone correlation lengths and measurement uncertainties from analysis of historical ozonesonde data in North America and Europe. Journal of Geophysical Research, 2009, 114, .	3.3	42
36	Effects of gravity waves on complex airglow chemistries: 1. O ₂ (<i>b</i> ¹ 1£ <i>_g</i> ⁺) emission. Journal of Geophysical Research, 1992, 97, 3185-3193.	3.3	35

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#	Article	IF	CITATIONS
37	Climatology and trends of surface UV radiation: Survey article. Atmosphere - Ocean, 2003, 41, 121-138.	0.6	35
38	Quantifying stratosphere-troposphere transport of ozone using balloon-borne ozonesondes, radar windprofilers and trajectory models. Atmospheric Environment, 2019, 198, 496-509.	1.9	34
39	Global-scale distribution of ozone in the remote troposphere from the ATom and HIPPO airborne field missions. Atmospheric Chemistry and Physics, 2020, 20, 10611-10635.	1.9	31
40	Improving ECC Ozonesonde Data Quality: Assessment of Current Methods and Outstanding Issues. Earth and Space Science, 2021, 8, e2019EA000914.	1.1	30
41	Continuous rise of the tropopause in the Northern Hemisphere over 1980–2020. Science Advances, 2021, 7, eabi8065.	4.7	26
42	Airglow response to vertically standing gravity waves. Geophysical Research Letters, 1994, 21, 2729-2732.	1.5	24
43	Ozone in the troposphere: Measurements, climatology, budget, and trends. Atmosphere - Ocean, 2008, 46, 93-115.	0.6	23
44	Laboratory investigations of the response of Brewer-Mast ozonesondes to tropospheric ozone. Journal of Geophysical Research, 2002, 107, ACH 14-1.	3.3	21
45	A Postâ€2013 Dropoff in Total Ozone at a Third of Global Ozonesonde Stations: Electrochemical Concentration Cell Instrument Artifacts?. Geophysical Research Letters, 2020, 47, e2019GL086791.	1.5	19
46	A new global real-time Lagrangian diagnostic system for stratosphere-troposphere exchange: evaluation during a balloon sonde campaign in eastern Canada. Atmospheric Chemistry and Physics, 2012, 12, 2661-2679.	1.9	16
47	Carbon monoxide climatology derived from the trajectory mapping of global MOZAIC-IAGOS data. Atmospheric Chemistry and Physics, 2016, 16, 10263-10282.	1.9	16
48	A new method to correct the electrochemical concentration cell (ECC) ozonesonde time response and its implications for "background current―and pump efficiency. Atmospheric Measurement Techniques, 2020, 13, 5667-5680.	1.2	15
49	Pan-Arctic surface ozone: modelling vs. measurements. Atmospheric Chemistry and Physics, 2020, 20, 15937-15967.	1.9	14
50	A review of the O2 (a1Δg) and O2 (b1Σg+) airglow emissions. Advances in Space Research, 1993, 13, 145-148.	1.2	13
51	Validation of Environment Canada and NOAA UV Index Forecasts with Brewer Measurements from Canada. Journal of Applied Meteorology and Climatology, 2013, 52, 1477-1489.	0.6	13
52	An Arctic ozone hole in 2020 if not for the Montreal Protocol. Atmospheric Chemistry and Physics, 2021, 21, 15771-15781.	1.9	13
53	Summertime stratospheric processes at northern mid-latitudes: comparisons between MANTRA balloon measurements and the Canadian Middle Atmosphere Model. Atmospheric Chemistry and Physics, 2008, 8, 2057-2071.	1.9	11
54	Analysis of the latitudinal variability of tropospheric ozone in the Arctic using the large number of aircraft and ozonesonde observations in early summer 2008. Atmospheric Chemistry and Physics, 2016, 16, 13341-13358.	1.9	10

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55	Variations in the vertical profile of ozone at four high-latitude Arctic sites from 2005 to 2017. Atmospheric Chemistry and Physics, 2019, 19, 9733-9751.	1.9	10
56	Stratospheric ozone loss in the Arctic winters between 2005 and 2013 derived with ACE-FTS measurements. Atmospheric Chemistry and Physics, 2019, 19, 577-601.	1.9	10
57	The Role of Natural Halogens in Global Tropospheric Ozone Chemistry and Budget Under Different 21st Century Climate Scenarios. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034859.	1.2	10
58	Layer truncation and the Eulerian/Lagrangian duality in the theory of airglow fluctuations induced by gravity waves. Journal of Atmospheric and Solar-Terrestrial Physics, 1997, 59, 327-334.	0.6	9
59	Impact of the COVIDâ€19 Economic Downturn on Tropospheric Ozone Trends: An Uncertainty Weighted Data Synthesis for Quantifying Regional Anomalies Above Western North America and Europe. AGU Advances, 2022, 3, .	2.3	9
60	Title is missing!. Hydrobiologia, 2001, 462, 75-89.	1.0	8
61	Estimating wildfire-generated ozone over North America using ozonesonde profiles and a differential back trajectory technique. Atmospheric Environment: X, 2020, 7, 100078.	0.8	8
62	Chemical Evolution of the Exceptional Arctic Stratospheric Winter 2019/2020 Compared to Previous Arctic and Antarctic Winters. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034356.	1.2	8
63	Parameterization of large-scale turbulent diffusion in the presence of both well-mixed and weakly mixed patchy layers. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 143-144, 14-36.	0.6	7
64	Brewer, SAOZ and Ozonesonde Observations in Siberia. Atmosphere - Ocean, 2015, 53, 14-18.	0.6	6
65	An assessment of 10-year NOAA aircraft-based tropospheric ozone profiling in Colorado. Atmospheric Environment, 2017, 158, 116-127.	1.9	6
66	On the nonlinear response of airglow to atmospheric gravity waves. Journal of Geophysical Research, 1993, 98, 19127-19131.	3.3	5
67	Seasonal ozone vertical profiles over North America using the AQMEII3 group of air quality models: model inter-comparison and stratospheric intrusions. Atmospheric Chemistry and Physics, 2018, 18, 13925-13945.	1.9	2
68	Biases of Global Tropopause Altitude Products in Reanalyses and Implications for Estimates of Tropospheric Column Ozone. Atmosphere, 2021, 12, 417.	1.0	2
69	UV spectral measurements at moderately high resolution and of OH resonance scattering resolved by polarization during the MANTRA 2002–2004 stratospheric balloon flights. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 205-222.	1.1	0