RenÃ© StÃ¼bi

List of Publications by Year
in descending order

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54	2,863	201674	189892
papers	citations	27	50
		h-index	g-index

72	72	72	2729
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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, .	5.4	9
2	Traceable total ozone column retrievals from direct solar spectral irradiance measurements in the ultraviolet. Atmospheric Measurement Techniques, 2022, 15, 1917-1930.	3.1	6
3	COVIDâ€19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. Geophysical Research Letters, 2021, 48, e2020GL091987.	4.0	51
4	Improving ECC Ozonesonde Data Quality: Assessment of Current Methods and Outstanding Issues. Earth and Space Science, 2021, 8, e2019EA000914.	2.6	30
5	Consistency of total column ozone measurements between the Brewer and Dobson spectroradiometers of the LKO Arosa and PMOD/WRC Davos. Atmospheric Measurement Techniques, 2021, 14, 3319-3331.	3.1	18
6	Representativeness of the Arosa/Davos Measurements for the Analysis of the Global Total Column Ozone Behavior. Frontiers in Earth Science, 2021, 9, .	1.8	1
7	Quality assessment of Dobson spectrophotometers for ozone column measurements before and after automation at Arosa and Davos. Atmospheric Measurement Techniques, 2021, 14, 4203-4217.	3.1	2
8	A fully automated Dobson sun spectrophotometer for total column ozone and Umkehr measurements. Atmospheric Measurement Techniques, 2021, 14, 5757-5769.	3.1	3
9	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.	4.0	19
10	Zonal Similarity of Longâ€Term Changes and Seasonal Cycles of Baseline Ozone at Northern Midlatitudes. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031908.	3.3	27
11	A new method to correct the electrochemical concentration cell (ECC) ozonesonde time response and its implications for â€œbackground currentâ€•and pump efficiency. Atmospheric Measurement Techniques, 2020, 13, 5667-5680.	3.1	15
12	Ground-based ozone profiles over central Europe: incorporating anomalous observations into the analysis of stratospheric ozone trends. Atmospheric Chemistry and Physics, 2019, 19, 4289-4309.	4.9	12
13	Ozonesonde Quality Assurance: The JOSIEâ€“SHADOZ (2017) Experience. Bulletin of the American Meteorological Society, 2019, 100, 155-171.	3.3	23
14	First Reprocessing of Southern Hemisphere ADditional OZonesondes Profile Records: 3. Uncertainty in Ozone Profile and Total Column. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3243-3268.	3.3	46
15	Evidence for a continuous decline in lower stratospheric ozone offsetting ozone layer recovery. Atmospheric Chemistry and Physics, 2018, 18, 1379-1394.	4.9	214
16	Stratospheric ozone measurements at Arosa (Switzerland): history and scientific relevance. Atmospheric Chemistry and Physics, 2018, 18, 6567-6584.	4.9	18
17	Radiosondes Show That After Decades of Cooling, the Lower Stratosphere Is Now Warming. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,509.	3.3	18
18	Reproducibility of total ozone column monitoring by the Arosa Brewer spectrophotometer triad. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4735-4745.	3.3	11

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19	First Reprocessing of Southern Hemisphere Additional Ozonesondes (SHADOZ) Ozone Profiles (1998â€“2016): 2. Comparisons With Satellites and Groundâ€Based Instruments. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,000.	3.3	61
20	Detecting volcanic sulfur dioxide plumes in the Northern Hemisphere using the Brewer spectrophotometers, other networks, and satellite observations. Atmospheric Chemistry and Physics, 2017, 17, 551-574.	4.9	18
21	Methods to homogenize electrochemical concentration cell (ECC) ozonesonde measurements across changes in sensing solution concentration or ozonesonde manufacturer. Atmospheric Measurement Techniques, 2017, 10, 2021-2043.	3.1	36
22	Validation of 10-year SAO OMI Ozone Profile (PROFOZ) product using ozonesonde observations. Atmospheric Measurement Techniques, 2017, 10, 2455-2475.	3.1	53
23	On the compatibility of Brewer total column ozone measurements in two adjacent valleys (Arosa and) Tj ETQq1 1 0.784314 rgBT /Ove	3.1	15
24	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.	3.1	92
25	Global impacts of the 1980s regime shift. Global Change Biology, 2016, 22, 682-703.	9.5	225
26	Past changes in the vertical distribution of ozone â€“ Part 3: Analysis and interpretation of trends. Atmospheric Chemistry and Physics, 2015, 15, 9965-9982.	4.9	115
27	Round-robin evaluation of nadir ozone profile retrievals: methodology and application to MetOp-A GOME-2. Atmospheric Measurement Techniques, 2015, 8, 2093-2120.	3.1	18
28	Trajectory matching of ozonesondes and MOZAIC measurements in the UTLS â€“ Part 2: Application to the global ozonesonde network. Atmospheric Measurement Techniques, 2014, 7, 241-266.	3.1	21
29	Response of the ozone column over Europe to the 2011 Arctic ozone depletion event according to ground-based observations and assessment of the consequent variations in surface UV irradiance. Atmospheric Environment, 2014, 85, 169-178.	4.1	28
30	Trajectory matching of ozonesondes and MOZAIC measurements in the UTLS â€“ Part 1: Method description and application at Payerne, Switzerland. Atmospheric Measurement Techniques, 2013, 6, 3393-3406.	3.1	13
31	Analysis of stratospheric NO₂ trends above Jungfraujoch using ground-based UV-visible, FTIR, and satellite nadir observations. Atmospheric Chemistry and Physics, 2012, 12, 8851-8864.	4.9	27
32	Southern Hemisphere Additional Ozonesondes (SHADOZ) ozone climatology (2005â€“2009): Tropospheric and tropical tropopause layer (TTL) profiles with comparisons to OMIâ€based ozone products. Journal of Geophysical Research, 2012, 117, .	3.3	58
33	Changes in ozone over Europe: Analysis of ozone measurements from sondes, regular aircraft (MOZAIC) and alpine surface sites. Journal of Geophysical Research, 2012, 117, .	3.3	139
34	Extreme events in total ozone over Arosa â€“ Part 2: Fingerprints of atmospheric dynamics and chemistry and effects on mean values and long-term changes. Atmospheric Chemistry and Physics, 2010, 10, 10033-10045.	4.9	30
35	Extreme events in total ozone over Arosa â€“ Part 1: Application of extreme value theory. Atmospheric Chemistry and Physics, 2010, 10, 10021-10031.	4.9	35
36	Corrigendum to "Tropospheric ozone from IASI: comparison of different inversion algorithms and validation with ozone sondes in the northern middle latitudes" published in Atmos. Chem. Phys., 9, 9329â€“9347, doi:10.5194/acp-9-9329-2009, 2009. Atmospheric Chemistry and Physics, 2010, 10, 6345-6345.	4.9	0

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37	A multi-model analysis of vertical ozone profiles. Atmospheric Chemistry and Physics, 2010, 10, 5759-5783.	4.9	70
38	Longâ€term total ozone observations at Arosa (Switzerland) with Dobson and Brewer instruments (1988â€“2007). Journal of Geophysical Research, 2010, 115, .	3.3	39
39	Temperature and slant path effects in Dobson and Brewer total ozone measurements. Journal of Geophysical Research, 2009, 114, .	3.3	42
40	Long-term changes in UT/LS ozone between the late 1970s and the 1990s deduced from the GASP and MOZAIC aircraft programs and from ozonesondes. Atmospheric Chemistry and Physics, 2009, 9, 5343-5369.	4.9	35
41	Tropospheric ozone from IASI: comparison of different inversion algorithms and validation with ozone sondes in the northern middle latitudes. Atmospheric Chemistry and Physics, 2009, 9, 9329-9347.	4.9	53
42	Assimilated ozone from EOSâ€Aura: Evaluation of the tropopause region and tropospheric columns. Journal of Geophysical Research, 2008, 113, .	3.3	75
43	Atmospheric comparison of electrochemical cell ozonesondes from different manufacturers, and with different cathode solution strengths: The Balloon Experiment on Standards for Ozonesondes. Journal of Geophysical Research, 2008, 113, .	3.3	119
44	Inâ€flight comparison of Brewerâ€Mast and electrochemical concentration cell ozonesondes. Journal of Geophysical Research, 2008, 113, .	3.3	39
45	Validation of the Atmospheric Chemistry Experiment (ACE) version 2.2 temperature using ground-based and space-borne measurements. Atmospheric Chemistry and Physics, 2008, 8, 35-62.	4.9	68
46	Ozone balloon soundings at Payerne (Switzerland): Reevaluation of the time series 1967â€“2002 and trend analysis. Journal of Geophysical Research, 2007, 112, .	3.3	25
47	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
48	A trajectoryâ€based estimate of the tropospheric ozone column using the residual method. Journal of Geophysical Research, 2007, 112, .	3.3	93
49	Validation of Aura Microwave Limb Sounder Ozone by ozonesonde and lidar measurements. Journal of Geophysical Research, 2007, 112, .	3.3	133
50	Arctic winter 2005: Implications for stratospheric ozone loss and climate change. Geophysical Research Letters, 2006, 33, .	4.0	151
51	Comparison and validation of the aerosol optical depth obtained with the Langley plot method in the UV-B from Brewer Ozone Spectrophotometer measurements. Journal of Geophysical Research, 2006, 111, .	3.3	21
52	Chemical ozone loss in the Arctic winter 2002/2003 determined with Match. Atmospheric Chemistry and Physics, 2006, 6, 2783-2792.	4.9	28
53	Pole-to-pole validation of Envisat GOMOS ozone profiles using data from ground-based and balloon sonde measurements. Journal of Geophysical Research, 2004, 109, .	3.3	56
54	Investigation of Systematic Uncertainties in Brewerâ€“Mast Ozone Soundings Using Observations from a Ground-Based Microwave Radiometer. Journal of Atmospheric and Oceanic Technology, 2003, 20, 1543-1551.	1.3	8