

# RenÅ© StÅ¼bi

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

2,863  
citations

201674

27  
h-index

189892

50  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2729  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of the performance of ECCâ€œozonesondes under quasiâ€œflight conditions in the environmental simulation chamber: Insights from the Juelich Ozone Sonde Intercomparison Experiment (JOSIE). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	282
2	Global impacts of the 1980s regime shift. <i>Global Change Biology</i> , 2016, 22, 682-703.	9.5	225
3	Evidence for a continuous decline in lower stratospheric ozone offsetting ozone layer recovery. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1379-1394.	4.9	214
4	Arctic winter 2005: Implications for stratospheric ozone loss and climate change. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	151
5	Changes in ozone over Europe: Analysis of ozone measurements from sondes, regular aircraft (MOZAIC) and alpine surface sites. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	139
6	Validation of Aura Microwave Limb Sounder Ozone by ozonesonde and lidar measurements. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	133
7	Atmospheric comparison of electrochemical cell ozonesondes from different manufacturers, and with different cathode solution strengths: The Balloon Experiment on Standards for Ozonesondes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	119
8	Past changes in the vertical distribution of ozone â€œ Part 3: Analysis and interpretation of trends. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9965-9982.	4.9	115
9	A trajectoryâ€œbased estimate of the tropospheric ozone column using the residual method. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	93
10	Ground-based assessment of the bias and long-term stability of 14 limb and occultation ozone profile data records. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2497-2534.	3.1	92
11	Assimilated ozone from EOSâ€œAura: Evaluation of the tropopause region and tropospheric columns. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	75
12	A multi-model analysis of vertical ozone profiles. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5759-5783.	4.9	70
13	Validation of the Atmospheric Chemistry Experiment (ACE) version 2.2 temperature using ground-based and space-borne measurements. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 35-62.	4.9	68
14	First Reprocessing of Southern Hemisphere Additional Ozonesondes (SHADOZ) Ozone Profiles (1998â€œ2016): 2. Comparisons With Satellites and Groundâ€œBased Instruments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 13,000.	3.3	61
15	Southern Hemisphere Additional Ozonesondes (SHADOZ) ozone climatology (2005â€œ2009): Tropospheric and tropical tropopause layer (TTL) profiles with comparisons to OMIâ€œbased ozone products. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	58
16	Pole-to-pole validation of Envisat GOMOS ozone profiles using data from ground-based and balloon sonde measurements. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	56
17	Tropospheric ozone from IASI: comparison of different inversion algorithms and validation with ozone sondes in the northern middle latitudes. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9329-9347.	4.9	53
18	Validation of 10-year SAO OMI Ozone Profile (PROFOZ) product using ozonesonde observations. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2455-2475.	3.1	53

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19	COVID-19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091987.	4.0	51
20	First Reprocessing of Southern Hemisphere Additional OZonesondes Profile Records: 3. Uncertainty in Ozone Profile and Total Column. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3243-3268.	3.3	46
21	Temperature and slant path effects in Dobson and Brewer total ozone measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	42
22	In-flight comparison of Brewer-Mast and electrochemical concentration cell ozonesondes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	39
23	Long-term total ozone observations at Arosa (Switzerland) with Dobson and Brewer instruments (1988-2007). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	39
24	Methods to homogenize electrochemical concentration cell (ECC) ozonesonde measurements across changes in sensing solution concentration or ozonesonde manufacturer. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2021-2043.	3.1	36
25	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. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5343-5369.	4.9	35
26	Extreme events in total ozone over Arosa - Part 1: Application of extreme value theory. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10021-10031.	4.9	35
27	Extreme events in total ozone over Arosa - Part 2: Fingerprints of atmospheric dynamics and chemistry and effects on mean values and long-term changes. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10033-10045.	4.9	30
28	Improving ECC Ozonesonde Data Quality: Assessment of Current Methods and Outstanding Issues. <i>Earth and Space Science</i> , 2021, 8, e2019EA000914.	2.6	30
29	Chemical ozone loss in the Arctic winter 2002/2003 determined with Match. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2783-2792.	4.9	28
30	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. <i>Atmospheric Environment</i> , 2014, 85, 169-178.	4.1	28
31	Analysis of stratospheric NO <sub>2</sub> trends above Jungfraujoch using ground-based UV-visible, FTIR, and satellite nadir observations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8851-8864.	4.9	27
32	Zonal Similarity of Long-Term Changes and Seasonal Cycles of Baseline Ozone at Northern Midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031908.	3.3	27
33	Ozone balloon soundings at Payerne (Switzerland): Reevaluation of the time series 1967-2002 and trend analysis. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	25
34	Ozonesonde Quality Assurance: The JOSIE-SHADOZ (2017) Experience. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 155-171.	3.3	23
35	Comparison and validation of the aerosol optical depth obtained with the Langley plot method in the UV-B from Brewer Ozone Spectrophotometer measurements. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	21
36	Trajectory matching of ozonesondes and MOZAIC measurements in the UTLS - Part 2: Application to the global ozonesonde network. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 241-266.	3.1	21

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37	A Post-2013 Dropoff in Total Ozone at a Third of Global Ozone-sonde Stations: Electrochemical Concentration Cell Instrument Artifacts?. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086791.	4.0	19
38	Round-robin evaluation of nadir ozone profile retrievals: methodology and application to MetOp-A GOME-2. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2093-2120.	3.1	18
39	Detecting volcanic sulfur dioxide plumes in the Northern Hemisphere using the Brewer spectrophotometers, other networks, and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 551-574.	4.9	18
40	Stratospheric ozone measurements at Arosa (Switzerland): history and scientific relevance. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6567-6584.	4.9	18
41	Radiosondes Show That After Decades of Cooling, the Lower Stratosphere Is Now Warming. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,509.	3.3	18
42	Consistency of total column ozone measurements between the Brewer and Dobson spectroradiometers of the LKO Arosa and PMOD/WRC Davos. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3319-3331.	3.1	18
43	On the compatibility of Brewer total column ozone measurements in two adjacent valleys (Arosa and Tj ETQq1 1 0,784314 rgBT /Overl	3.1	15
44	A new method to correct the electrochemical concentration cell (ECC) ozone-sonde time response and its implications for "background current" and pump efficiency. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5667-5680.	3.1	15
45	Trajectory matching of ozone-sondes and MOZAIC measurements in the UTLS " Part 1: Method description and application at Payerne, Switzerland. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 3393-3406.	3.1	13
46	Ground-based ozone profiles over central Europe: incorporating anomalous observations into the analysis of stratospheric ozone trends. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4289-4309.	4.9	12
47	Reproducibility of total ozone column monitoring by the Arosa Brewer spectrophotometer triad. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4735-4745.	3.3	11
48	Impact of the COVID-19 Economic Downturn on Tropospheric Ozone Trends: An Uncertainty Weighted Data Synthesis for Quantifying Regional Anomalies Above Western North America and Europe. <i>AGU Advances</i> , 2022, 3, .	5.4	9
49	Investigation of Systematic Uncertainties in Brewer "Mast Ozone Soundings Using Observations from a Ground-Based Microwave Radiometer. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003, 20, 1543-1551.	1.3	8
50	Traceable total ozone column retrievals from direct solar spectral irradiance measurements in the ultraviolet. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1917-1930.	3.1	6
51	A fully automated Dobson sun spectrophotometer for total column ozone and Umkehr measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5757-5769.	3.1	3
52	Quality assessment of Dobson spectrophotometers for ozone column measurements before and after automation at Arosa and Davos. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4203-4217.	3.1	2
53	Representativeness of the Arosa/Davos Measurements for the Analysis of the Global Total Column Ozone Behavior. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	1
54	Corrigendum to "Tropospheric ozone from IASI: comparison of different inversion algorithms and validation with ozone sondes in the northern middle latitudes" published in <i>Atmos. Chem. Phys.</i> , 9, 9329-9347, doi:10.5194/acp-9-9329-2009, 2009. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6345-6345.	4.9	0