ValÃ©rie Thouret

List of Publications by Year
in descending order

67 papers	2,971 citations	257357 24 h-index	206029 48 g-index
75 all docs	75 docs citations	75 times ranked	2605 citing authors

#	Article	IF	Citations
1	Lightning NO_x influence on large-scale NO_y and O₃ plumes observed over the northern mid-latitudes. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 25544.	0.8	8
2	Global-scale atmosphere monitoring by in-service aircraft â€“ current achievements and future prospects of the European Research Infrastructure IAGOS. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 28452.	0.8	118
3	The geographical distribution of meteorological parameters associated with high and low summer ozone levels in the lower troposphere and the boundary layer over the eastern Mediterranean (Cairo) Tj ETQq1 1 0.784314 rg BT /Overlo	0.8	23
4	The first regular measurements of ozone, carbon monoxide and water vapour in the Pacific UTLS by IAGOS. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 28385.	0.8	13
5	Instrumentation on commercial aircraft for monitoring the atmospheric composition on a global scale: the IAGOS system, technical overview of ozone and carbon monoxide measurements. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 27791.	0.8	61
6	Analysis of tropospheric ozone and carbon monoxide profiles over South America based on MOZAIC/IAGOS database and model simulations. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 27884.	0.8	18
7	On the representation of IAGOS/MOZAIC vertical profiles in chemical transport models: contribution of different error sources in the example of carbon monoxide. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 28292.	0.8	7
8	Consistency of tropospheric ozone observations made by different platforms and techniques in the global databases. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 27073.	0.8	14
9	Climatology of NO_y in the troposphere and UT/LS from measurements made in MOZAIC. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 28793.	0.8	4
10	Spatio-temporal variability of CO and O₃ in Hyderabad (17Â°N, 78Â°E), central India, based on MOZAIC and TES observations and WRF-Chem and MOZART-4 models. Tellus, Series B: Chemical and Physical Meteorology, 2022, 68, 30545.	0.8	10
11	On the use of MOZAIC-IAGOS data to assess the ability of the MACC reanalysis to reproduce the distribution of ozone and CO in the UTLS over Europe. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 27955.	0.8	11
12	Contributions of World Regions to the Global Tropospheric Ozone Burden Change From 1980 to 2010. Geophysical Research Letters, 2021, 48, .	1.5	22
13	Internal consistency of the IAGOS ozone and carbon monoxide measurements for the last 25 years. Atmospheric Measurement Techniques, 2021, 14, 3935-3951.	1.2	14
14	Interpol-IAGOS: a new method for assessing long-term chemistryâ€“climate simulations in the UTLS based on IAGOS data, and its application to the MOCAGE CCMI REF-C1SD simulation. Geoscientific Model Development, 2021, 14, 2659-2689.	1.3	6
15	Fifty years of balloon-borne ozone profile measurements at Uccle, Belgium: a short history, the scientific relevance, and the achievements in understanding the vertical ozone distribution. Atmospheric Chemistry and Physics, 2021, 21, 12385-12411.	1.9	11
16	Origins and characterization of CO and O₃ in the African upper troposphere. Atmospheric Chemistry and Physics, 2021, 21, 14535-14555.	1.9	2
17	Recent ozone trends in the Chinese free troposphere: role of the local emission reductions and meteorology. Atmospheric Chemistry and Physics, 2021, 21, 16001-16025.	1.9	10
18	The effects of the COVID-19 lockdowns on the composition of the troposphere as seen by In-service Aircraft for a Global Observing System (IAGOS) at Frankfurt. Atmospheric Chemistry and Physics, 2021, 21, 16237-16256.	1.9	12

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19	Aircraft observations since the 1990s reveal increases of tropospheric ozone at multiple locations across the Northern Hemisphere. Science Advances, 2020, 6, .	4.7	64
20	Multi-decadal surface ozone trends at globally distributed remote locations. Elementa, 2020, 8, .	1.1	54
21	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
22	The impact of biomass burning on upper tropospheric carbon monoxide: a study using MOCAGE global model and IAGOS airborne data. Atmospheric Chemistry and Physics, 2020, 20, 9393-9417.	1.9	14
23	Statistical regularization for trend detection: an integrated approach for detecting long-term trends from sparse tropospheric ozone profiles. Atmospheric Chemistry and Physics, 2020, 20, 9915-9938.	1.9	15
24	Tropospheric ozone over the Indian subcontinent from 2000 to 2015: Data set and simulation using GEOS-Chem chemical transport model. Atmospheric Environment, 2019, 219, 117039.	1.9	21
25	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. Elementa, 2019, 7, .	1.1	103
26	A climatological view of the vertical stratification of RH, O₃ and CO within the PBL and at the interface with free troposphere as seen by IAGOS aircraft and ozonesondes at northern mid-latitudes over 1994â€"2016. Atmospheric Chemistry and Physics, 2018, 18, 9561-9581.	1.9	5
27	Multi-species inversion and IAGOS airborne data for a better constraint of continental-scale fluxes. Atmospheric Chemistry and Physics, 2018, 18, 9225-9241.	1.9	7
28	The role of biomass burning as derived from the tropospheric CO vertical profiles measured by IAGOS aircraft in 2002â€"2017. Atmospheric Chemistry and Physics, 2018, 18, 17277-17306.	1.9	22
29	Climatology and long-term evolution of ozone and carbon monoxide in the upper troposphereâ€"lower stratosphere (UTLS) at northern midlatitudes, as seen by IAGOS from 1995 to 2013. Atmospheric Chemistry and Physics, 2018, 18, 5415-5453.	1.9	44
30	Impact of tropical convection and ENSO variability in vertical distributions of CO and O3 over an urban site of India. Climate Dynamics, 2017, 49, 449-469.	1.7	10
31	Source attribution using FLEXPART and carbon monoxide emission inventories: SOFT-IO version 1.0. Atmospheric Chemistry and Physics, 2017, 17, 15271-15292.	1.9	23
32	In situ temperature measurements in the upper troposphere and lowermost stratosphere from 2Âdecades of IAGOS long-term routine observation. Atmospheric Chemistry and Physics, 2017, 17, 12495-12508.	1.9	12
33	Validation of 10-year SAO OMI Ozone Profile (PROFOZ) product using ozonesonde observations. Atmospheric Measurement Techniques, 2017, 10, 2455-2475.	1.2	53
34	Modeling lightning-NO_{<i>x</i>} chemistry on a sub-grid scale in a global chemical transport model. Atmospheric Chemistry and Physics, 2016, 16, 5867-5889.	1.9	17
35	Characterising tropospheric O₃ and CO around Frankfurt over the period 1994â€"2012 based on MOZAICâ€"IAGOS aircraft measurements. Atmospheric Chemistry and Physics, 2016, 16, 15147-15163.	1.9	31
36	Carbon monoxide climatology derived from the trajectory mapping of global MOZAIC-IAGOS data. Atmospheric Chemistry and Physics, 2016, 16, 10263-10282.	1.9	16

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37	The 2014 MOZAICâ€"IAGOS 20th Anniversary Scientific Symposium on Atmospheric Composition Observations by Commercial Aircraft. Tellus, Series B: Chemical and Physical Meteorology, 2015, 67, 29777.	0.8	0
38	Seasonal and interannual variability of tropospheric ozone over an urban site in India: A study based on MOZAIC and CCM vertical profiles over Hyderabad. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3615-3641.	1.2	29
39	Characteristics of tropospheric ozone variability over an urban site in Southeast Asia: A study based on MOZAIC and MOZART vertical profiles. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8729-8747.	1.2	17
40	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
41	Distribution, variability and sources of tropospheric ozone over south China in spring: Intensive ozonesonde measurements at five locations and modeling analysis. Journal of Geophysical Research, 2012, 117, .	3.3	21
42	Climatology of tropospheric ozone and water vapour over Chennai: a study based on MOZAIC measurements over India. International Journal of Climatology, 2011, 31, 920-936.	1.5	22
43	Atmospheric composition of West Africa: highlights from the AMMA international program. Atmospheric Science Letters, 2011, 12, 13-18.	0.8	21
44	Global Chemistry Simulations in the AMMA Multimodel Intercomparison Project. Bulletin of the American Meteorological Society, 2010, 91, 611-624.	1.7	21
45	Spatial structure of assimilated ozone in the upper troposphere and lower stratosphere. Journal of Geophysical Research, 2010, 115, .	3.3	13
46	Seasonality of tropospheric ozone and water vapor over Delhi, India: a study based on MOZAIC measurement data. Journal of Atmospheric Chemistry, 2009, 62, 151-174.	1.4	22
47	Observed vertical distribution of tropospheric ozone during the Asian summertime monsoon. Journal of Geophysical Research, 2009, 114, .	3.3	59
48	Springtime transitions of NO₂, CO, and O₃ over North America: Model evaluation and analysis. Journal of Geophysical Research, 2008, 113, .	3.3	56
49	Les programmes aÃ©roportÃ©s Mozaic et Iagos (1994-2008). La MÃ©tÃ©orologie, 2008, 8, 18.	0.5	1
50	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
51	Ozone, water vapor, and temperature in the upper tropical troposphere: Variations over a decade of MOZAIC measurements. Journal of Geophysical Research, 2006, 111, .	3.3	23
52	Extreme CO concentrations in the upper troposphere over northeast Asia in June 2003 from the in situ MOZAIC aircraft data. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	61
53	Methodology for Using the MOZAIC Ozone Climatology in Future Comparisons with Data from SCIAMACHY Onboard ENVISAT. , 2004, , 355-360.		0
54	The residence times of aircraft emissions in the stratosphere using a mean emission inventory and emissions along actual flight tracks. Journal of Geophysical Research, 2003, 108, .	3.3	29

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55	Interpretation of TOMS observations of tropical tropospheric ozone with a global model and in situ observations. Journal of Geophysical Research, 2002, 107, ACH 4-1.	3.3	174
56	An extension of Measurement of Ozone and Water Vapour by Airbus In-service Aircraft (MOZAIC) ozone climatologies using trajectory statistics. Journal of Geophysical Research, 2001, 106, 27757-27768.	3.3	36
57	Tropospheric ozone layers observed during PEM-Tropics B. Journal of Geophysical Research, 2001, 106, 32527-32538.	3.3	19
58	Isentropic scaling analysis of ozone in the upper troposphere and lower stratosphere. Journal of Geophysical Research, 2001, 106, 10023-10038.	3.3	5
59	A tropospheric ozone maximum over the Middle East. Geophysical Research Letters, 2001, 28, 3235-3238.	1.5	122
60	Data composites of airborne observations of tropospheric ozone and its precursors. Journal of Geophysical Research, 2000, 105, 20497-20538.	3.3	175
61	General characteristics of tropospheric trace constituent layers observed in the MOZAIC program. Journal of Geophysical Research, 2000, 105, 17379-17392.	3.3	42
62	Ubiquity of quasi-horizontal layers in the troposphere. Nature, 1999, 398, 316-319.	13.7	136
63	Measurement of ozone and water vapor by Airbus in-service aircraft: The MOZAIC airborne program, an overview. Journal of Geophysical Research, 1998, 103, 25631-25642.	3.3	468
64	Ozone climatologies at 9-12 km altitude as seen by the MOZAIC airborne program between September 1994 and August 1996. Journal of Geophysical Research, 1998, 103, 25653-25679.	3.3	82
65	Comparisons of ozone measurements from the MOZAIC airborne program and the ozone sounding network at eight locations. Journal of Geophysical Research, 1998, 103, 25695-25720.	3.3	201
66	Tropospheric CO vertical profiles measured by IAGOS aircraft in 2002–2017 and the role of biomass burning. Atmospheric Chemistry and Physics Discussions, 0, , 1-41.	1.0	0
67	The Global Atmosphere Watch reactive gases measurement network. Elementa, 0, 3, .	1.1	63