Philippe NÃ©dÃ©lec

List of Publications by Year
in descending order

20 papers	1,322 citations	759233 12 h-index	794594 19 g-index
24 all docs	24 docs citations	24 times ranked	1483 citing authors

#	Article	IF	Citations
1	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
2	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
3	Tropospheric ozone change from 1980 to 2010 dominated by equatorward redistribution ofÂemissions. Nature Geoscience, 2016, 9, 875-879.	12.9	140
4	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.	1.6	118
5	Aircraft observations since the 1990s reveal increases of tropospheric ozone at multiple locations across the Northern Hemisphere. Science Advances, 2020, 6, .	10.3	64
6	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.	4.0	61
7	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.	1.6	61
8	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.	4.9	44
9	Source attribution using FLEXPART and carbon monoxide emission inventories: SOFT-IO version 1.0. Atmospheric Chemistry and Physics, 2017, 17, 15271-15292.	4.9	23
10	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.	4.9	22
11	Contributions of World Regions to the Global Tropospheric Ozone Burden Change From 1980 to 2010. Geophysical Research Letters, 2021, 48, .	4.0	22
12	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.	1.6	18
13	Carbon monoxide climatology derived from the trajectory mapping of global MOZAIC-IAGOS data. Atmospheric Chemistry and Physics, 2016, 16, 10263-10282.	4.9	16
14	Internal consistency of the IAGOS ozone and carbon monoxide measurements for the last 25 years. Atmospheric Measurement Techniques, 2021, 14, 3935-3951.	3.1	14
15	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.	1.6	13
16	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.	4.9	12
17	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
18	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.	1.6	8

#	Article	IF	Citations
19	Origins and characterization of CO and O₃ in the African upper troposphere. Atmospheric Chemistry and Physics, 2021, 21, 14535-14555.	4.9	2
20	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