

Philippe Ricaud

List of Publications by Year in descending order

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49
papers

1,216
citations

430874

18
h-index

454955

30
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74
all docs

74
docs citations

74
times ranked

1743
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation and Global-Scale Observation of Nitrous Oxide from IASI on Metop-A. Remote Sensing, 2022, 14, 1403.	4.0	1
2	Ice injected into the tropopause by deep convection â€œ Part 2: Over the Maritime Continent. Atmospheric Chemistry and Physics, 2021, 21, 2191-2210.	4.9	1
3	The Monitoring Nitrous Oxide Sources (MIN2OS) satellite project. Remote Sensing of Environment, 2021, 266, 112688.	11.0	8
4	Trends in Atmospheric Humidity and Temperature above Dome C, Antarctica Evaluated from Observations and Reanalyses. Atmosphere, 2020, 11, 836.	2.3	6
5	Benefit of ozone observations from Sentinel-5P and future Sentinel-4 missions on tropospheric composition. Atmospheric Measurement Techniques, 2020, 13, 131-152.	3.1	12
6	Supercooled liquid water cloud observed, analysed, and modelled at the top of the planetary boundary layer above Dome C, Antarctica. Atmospheric Chemistry and Physics, 2020, 20, 4167-4191.	4.9	17
7	Impact of synthetic space-borne NO ₂ observations from the Sentinel-4 and Sentinel-5P missions on tropospheric NO ₂ analyses. Atmospheric Chemistry and Physics, 2019, 19, 12811-12833.	4.9	15
8	Analysis of the Forbush Decreases and Ground-Level Enhancement on September 2017 Using Neutron Spectrometers Operated in Antarctic and Midlatitude Stations. Journal of Geophysical Research: Space Physics, 2019, 124, 661-673.	2.4	9
9	Ice injected into the tropopause by deep convection â€œ Part 1: In the austral convective tropics. Atmospheric Chemistry and Physics, 2019, 19, 6459-6479.	4.9	6
10	The GLAM Airborne Campaign across the Mediterranean Basin. Bulletin of the American Meteorological Society, 2018, 99, 361-380.	3.3	15
11	Intercontinental transport of biomass burning pollutants over the Mediterranean Basin during the summer 2014 ChArMEx-GLAM airborne campaign. Atmospheric Chemistry and Physics, 2018, 18, 6887-6906.	4.9	21
12	Future changes in surface ozone over the Mediterranean Basin in the framework of the Chemistry-Aerosol Mediterranean Experiment (ChArMEx). Atmospheric Chemistry and Physics, 2018, 18, 9351-9373.	4.9	12
13	Impact of spaceborne carbon monoxide observations from the S-5P platform on tropospheric composition analyses and forecasts. Atmospheric Chemistry and Physics, 2017, 17, 1081-1103.	4.9	16
14	Atmospheric pollution over the eastern Mediterranean during summer â€œ a review. Atmospheric Chemistry and Physics, 2017, 17, 13233-13263.	4.9	49
15	Genesis of diamond dust, ice fog and thick cloud episodes observed and modelled above Dome C, Antarctica. Atmospheric Chemistry and Physics, 2017, 17, 5221-5237.	4.9	19
16	Summertime upper tropospheric nitrous oxide over the Mediterranean as a footprint of Asian emissions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4746-4759.	3.3	5
17	Evaluation of water vapour assimilation in the tropical upper troposphere and lower stratosphere by a chemical transport model. Atmospheric Measurement Techniques, 2016, 9, 4355-4373.	3.1	3
18	New insights into the atmospheric mercury cycling in central Antarctica and implications on a continental scale. Atmospheric Chemistry and Physics, 2016, 16, 8249-8264.	4.9	36

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19	Review of tropospheric temperature, absolute humidity and integrated water vapour from the HAMSTRAD radiometer installed at Dome C, Antarctica, 2009-2014. <i>Antarctic Science</i> , 2015, 27, 598-616.	0.9	17
20	Introduction to the Maïdo Lidar Calibration Campaign dedicated to the validation of upper air meteorological parameters. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 094099.	1.3	13
21	Statistical analyses and correlation between tropospheric temperature and humidity at Dome C, Antarctica. <i>Antarctic Science</i> , 2014, 26, 290-308.	0.9	8
22	Validation of nine years of MOPITT V5 NIR using MOZAIC/IAGOS measurements: biases and long-term stability. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3783-3799.	3.1	11
23	Tropospheric CO vertical profiles deduced from total columns using data assimilation: methodology and validation. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3035-3057.	3.1	7
24	The added value of a visible channel to a geostationary thermal infrared instrument to monitor ozone for air quality. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2185-2201.	3.1	23
25	Impact of tropical land convection on the water vapour budget in the tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6195-6211.	4.9	12
26	Impact of the Asian monsoon anticyclone on the variability of mid-to-upper tropospheric methane above the Mediterranean Basin. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11427-11446.	4.9	26
27	Variabilit�s de la vapeur d'eau et de la temp�rature troposph�rique au D�me C (station Concordia), Antarctique. Partie I : l'instrument Hamstrad. <i>La M�t�orologie</i> , 2014, 8, 15.	0.5	1
28	Variabilit�s de la vapeur d'eau et de la temp�rature troposph�rique au D�me C (station Concordia), Antarctique. Partie II : R�sultats scientifiques. <i>La M�t�orologie</i> , 2014, 8, 35.	0.5	2
29	Quality Assessment of the First Measurements of Tropospheric Water Vapor and Temperature by the HAMSTRAD Radiometer Over Concordia Station, Antarctica. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 3217-3239.	6.3	9
30	Maïdo observatory: a new high-altitude station facility at Reunion Island (21� S, 55� E) for long-term atmospheric remote sensing and in situ measurements. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2865-2877.	3.1	74
31	Modeling the present and future impact of aviation on climate: an AOGCM approach with online coupled chemistry. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10027-10048.	4.9	19
32	Climatology of pure tropospheric profiles and column contents of ozone and carbon monoxide using MOZAIC in the mid-northern latitudes (24� N to 50� N) from 1994 to 2009. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 12363-12388.	4.9	36
33	Summer to Winter Diurnal Variabilities of Temperature and Water Vapour in the Lowermost Troposphere as Observed by HAMSTRAD over Dome C, Antarctica. <i>Boundary-Layer Meteorology</i> , 2012, 143, 227-259.	2.3	15
34	An overview of the HIBISCUS campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2309-2339.	4.9	18
35	Site testing for submillimetre astronomy at Dome C, Antarctica. <i>Astronomy and Astrophysics</i> , 2011, 535, A112.	5.1	25
36	A thermal infrared instrument onboard a geostationary platform for CO and O� measurements in the lowermost troposphere: Observing System Simulation Experiments (OSSE). <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1637-1661.	3.1	36

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37	A geostationary thermal infrared sensor to monitor the lowermost troposphere: O ₃ and CO retrieval studies. Atmospheric Measurement Techniques, 2011, 4, 297-317.	3.1	22
38	A linear CO chemistry parameterization in a chemistry-transport model: evaluation and application to data assimilation. Atmospheric Chemistry and Physics, 2010, 10, 6097-6115.	4.9	20
39	Midlatitude stratosphere-troposphere exchange as diagnosed by MLS O ₃ and MOPITT CO assimilated fields. Atmospheric Chemistry and Physics, 2010, 10, 2175-2194.	4.9	54
40	Validation of Tropospheric Water Vapor as Measured by the 183-GHz HAMSTRAD Radiometer Over the Pyrenees Mountains, France. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2189-2203.	6.3	11
41	HAMSTRAD-Tropo, A 183-GHz Radiometer Dedicated to Sound Tropospheric Water Vapor Over Concordia Station, Antarctica. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1365-1380.	6.3	22
42	Equatorial total column of nitrous oxide as measured by IASI on MetOp-A: implications for transport processes. Atmospheric Chemistry and Physics, 2009, 9, 3947-3956.	4.9	39
43	Equatorial transport as diagnosed from nitrous oxide variability. Atmospheric Chemistry and Physics, 2009, 9, 8173-8188.	4.9	22
44	Ozone loss in the 2002-2003 Arctic vortex deduced from the assimilation of Odin/SMR O ₃ and N ₂ O measurements: N ₂ O as a dynamical tracer. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 217-228.	2.7	37
45	A 22-GHz Mobile Microwave Radiometer (MobRa) for the Study of Middle Atmospheric Water Vapor. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3104-3114.	6.3	11
46	CO measurements from the ACE-FTS satellite instrument: data analysis and validation using ground-based, airborne and spaceborne observations. Atmospheric Chemistry and Physics, 2008, 8, 2569-2594.	4.9	107
47	Impact of land convection on troposphere-stratosphere exchange in the tropics. Atmospheric Chemistry and Physics, 2007, 7, 5639-5657.	4.9	65
48	A new tropospheric and stratospheric Chemistry and Transport Model MOCAGE-Climat for multi-year studies: evaluation of the present-day climatology and sensitivity to surface processes. Atmospheric Chemistry and Physics, 2007, 7, 5815-5860.	4.9	107
49	Moliere (v5): a versatile forward- and inversion model for the millimeter and sub-millimeter wavelength range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 83, 529-554.	2.3	82