Fabrizio Ravegnani

List of Publications by Year
in descending order

87 papers	2,119 citations	201385 27 h-index	276539 41 g-index
90 all docs	90 docs citations	90 times ranked	2040 citing authors

#	Article	IF	Citations
1	Large-scale overview of the summer monsoon over West Africa during the AMMA field experiment in 2006. Annales Geophysicae, 2008, 26, 2569-2595.	0.6	181
2	Geophysical validation of MIPAS-ENVISAT operational ozone data. Atmospheric Chemistry and Physics, 2007, 7, 4807-4867.	1.9	130
3	Contribution of mixing to upward transport across the tropical tropopause layer (TTL). Atmospheric Chemistry and Physics, 2007, 7, 3285-3308.	1.9	109
4	Evidence for ice particles in the tropical stratosphere from in-situ measurements. Atmospheric Chemistry and Physics, 2009, 9, 6775-6792.	1.9	100
5	Reconciliation of essential process parameters for an enhanced predictability of Arctic stratospheric ozone loss and its climate interactions (RECONCILE): activities and results. Atmospheric Chemistry and Physics, 2013, 13, 9233-9268.	1.9	88
6	Insight from ozone and water vapour on transport in the tropical tropopause layer (TTL). Atmospheric Chemistry and Physics, 2011, 11, 407-419.	1.9	71
7	First comparison between ground-based and satellite-borne measurements of tropospheric nitrogen dioxide in the Po basin. Journal of Geophysical Research, 2004, 109, .	3.3	67
8	Title is missing!. Journal of Atmospheric Chemistry, 1998, 30, 187-207.	1.4	64
9	Stratospheric ozone intrusion episodes recorded at Mt. Cimone during the VOTALP project: case studies. Atmospheric Environment, 2000, 34, 1355-1365.	1.9	64
10	Title is missing!. Journal of Atmospheric Chemistry, 1999, 32, 281-314.	1.4	63
11	Match observations in the Arctic winter 1996/97: High stratospheric ozone loss rates correlate with low temperatures deep inside the polar vortex. Geophysical Research Letters, 2000, 27, 205-208.	1.5	62
12	Three-dimensional model study of the Arctic ozone loss in 2002/2003 and comparison with 1999/2000 and 2003/2004. Atmospheric Chemistry and Physics, 2005, 5, 139-152.	1.9	62
13	Aerosols in the tropical and subtropical UT/LS: in-situ measurements of submicron particle abundance and volatility. Atmospheric Chemistry and Physics, 2010, 10, 5573-5592.	1.9	59
14	In situ measurements of tropical cloud properties in the West African Monsoon: upper tropospheric ice clouds, Mesoscale Convective System outflow, and subvisual cirrus. Atmospheric Chemistry and Physics, 2011, 11, 5569-5590.	1.9	59
15	Cellulose acetate nanofiber electrospun on nylon substrate as novel composite matrix for efficient, heat-resistant, air filters. Chemical Engineering Science, 2016, 153, 284-294.	1.9	51
16	The FLASH instrument for water vapor measurements on board the high-altitude airplane. Instruments and Experimental Techniques, 2007, 50, 113-121.	0.1	50
17	Measurement of volatile organic compounds (VOCs) in libraries and archives in Florence (Italy). Science of the Total Environment, 2016, 572, 333-339.	3.9	49
18	Uncertainties in modelling heterogeneous chemistry and Arctic ozone depletion in the winter 2009/2010. Atmospheric Chemistry and Physics, 2013, 13, 3909-3929.	1.9	45

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19	A Chemiluminescent Analyzer for Stratospheric Measurements of the Ozone Concentration (FOZAN). Journal of Atmospheric and Oceanic Technology, 1999, 16, 1345-1350.	0.5	43
20	NO_x production by lightning in Hector: first airborne measurements during SCOUT-O3/ACTIVE. Atmospheric Chemistry and Physics, 2009, 9, 8377-8412.	1.9	43
21	Mesoscale convective systems observed during AMMA and their impact on the NO_x and O₃ budget over West Africa. Atmospheric Chemistry and Physics, 2011, 11, 2503-2536.	1.9	40
22	The impact of overshooting deep convection on local transport and mixing in the tropical upper troposphere/lower stratosphere (UTLS). Atmospheric Chemistry and Physics, 2015, 15, 6467-6486.	1.9	38
23	Severe ozone depletion in the cold Arctic winter 2004â€“05. Geophysical Research Letters, 2006, 33, .	1.5	37
24	MIPAS-STR measurements in the Arctic UTLS in winter/spring 2010: instrument characterization, retrieval and validation. Atmospheric Measurement Techniques, 2012, 5, 1205-1228.	1.2	36
25	The FOZAN-II Fast-Response Chemiluminescent Airborne Ozone Analyzer. Instruments and Experimental Techniques, 2001, 44, 249-256.	0.1	35
26	Off-axis measurements of atmospheric trace gases by use of an airborne ultraviolet-visible spectrometer. Applied Optics, 2002, 41, 5593.	2.1	34
27	Evidence for heterogeneous chlorine activation in the tropical UTLS. Atmospheric Chemistry and Physics, 2011, 11, 241-256.	1.9	33
28	Polyvinyl alcohol/silver electrospun nanofibers: Biocidal filter media capturing virusâ€size particles. Journal of Applied Polymer Science, 2021, 138, 51380.	1.3	33
29	Deep-convective influence on the upper troposphereâ€“lower stratosphere composition in the Asian monsoon anticyclone region: 2017 StratoClim campaign results. Atmospheric Chemistry and Physics, 2020, 20, 12193-12210.	1.9	33
30	CRISTA-NF measurements with unprecedented vertical resolution during the RECONCILE aircraft campaign. Atmospheric Measurement Techniques, 2012, 5, 1173-1191.	1.2	32
31	Air mass origins influencing TTL chemical composition over West Africa during 2006 summer monsoon. Atmospheric Chemistry and Physics, 2010, 10, 10753-10770.	1.9	26
32	Upward transport into and within the Asian monsoon anticyclone as inferred from StratoClim trace gas observations. Atmospheric Chemistry and Physics, 2021, 21, 1267-1285.	1.9	25
33	Tropical deep convective life cycle: Cb-anvil cloud microphysics from high-altitude aircraft observations. Atmospheric Chemistry and Physics, 2014, 14, 13223-13240.	1.9	19
34	Tropopause and hygropause variability over the equatorial Indian Ocean during February and March 1999. Journal of Geophysical Research, 2006, 111, .	3.3	18
35	Impact of deep convection in the tropical tropopause layer in West Africa: in-situ observations and mesoscale modelling. Atmospheric Chemistry and Physics, 2011, 11, 201-214.	1.9	18
36	Aircraft-based observation of meteoric material in lower-stratospheric aerosol particles between 15 and 68Â°â€‰N. Atmospheric Chemistry and Physics, 2021, 21, 989-1013.	1.9	18

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37	Clouds at the tropical tropopause: A case study during the APE-THESEO campaign over the western Indian Ocean. Journal of Geophysical Research, 2003, 108, .	3.3	15
38	MOCRA: a Monte Carlo code for the simulation of radiative transfer in the atmosphere. Optics Express, 2012, 20, 7973.	1.7	15
39	Tropospheric and stratospheric NO2 amount deduced by slant column measurements at Mt. Cimone station. Advances in Space Research, 2002, 29, 1691-1695.	1.2	13
40	Stratospheric nitrogen dioxide in the Antarctic. International Journal of Remote Sensing, 2005, 26, 3395-3412.	1.3	13
41	Emission sources contributing to tropospheric ozone over Equatorial Africa during the summer monsoon. Atmospheric Chemistry and Physics, 2011, 11, 13395-13419.	1.9	13
42	PROMSAR: A backward Monte Carlo spherical RTM for the analysis of DOAS remote sensing measurements. Advances in Space Research, 2005, 36, 1007-1014.	1.2	10
43	Backtrajectory reconstruction of water vapour and ozone in-situ observations in the TTL. Meteorologische Zeitschrift, 2012, 21, 239-244.	0.5	8
44	Influence of spray-coating process parameters on the release of TiO2 particles for the production of antibacterial textile. NanoImpact, 2020, 19, 100245.	2.4	8
45	NO2 column amount and total ozone in Stara Zagora (42Â°N, 25Â°E) and their response to the solar rotational activity variation. Advances in Space Research, 2006, 37, 1614-1620.	1.2	7
46	Quantifying Emission Factors and Setting Conditions of Use According to ECHA Chapter R.14 for a Spray Process Designed for Nanocoatingsâ€"A Case Study. Nanomaterials, 2022, 12, 596.	1.9	7
47	Spectrometric measurements of NO2 slant column amount at Stara Zagora Station (42Â°N, 25Â°E). Advances in Space Research, 2003, 31, 1473-1478.	1.2	6
48	Monitoring and Optimisation of Ag Nanoparticle Spray-Coating on Textiles. Nanomaterials, 2021, 11, 3165.	1.9	6
49	Particles Emission from an Industrial Spray Coating Process Using Nano-Materials. Nanomaterials, 2022, 12, 313.	1.9	6
50	A Chemiluminescent Balloon-Type Nitrogen Dioxide Meter for Tropospheric and Stratospheric Investigations (NaDA). Instruments and Experimental Techniques, 2005, 48, 400-405.	0.1	5
51	Stratospheric minor gas distribution over the Antarctic Peninsula during the APEâ€"GAIA campaign. International Journal of Remote Sensing, 2005, 26, 3343-3360.	1.3	5
52	Retrieval of Gas Pollutants Vertical Profile in the Boundary Layer by Means of Multiple-Axis DOAS. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2796-2802.	2.7	5
53	A Monte Carlo simulation of radiative transfer in the atmosphere applied to ToTaL-DOAS. Proceedings of SPIE, 2009, , .	0.8	5
54	Stratospheric NO₂trends over the high mountain â€˜Ottavio Vittoriâ€™ station, Italy. International Journal of Remote Sensing, 2011, 32, 767-785.	1.3	5

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55	A study of O3 and NO2 vertical structure in a coastal wooded zone near a metropolitan area, by means of DOAS measurements. Atmospheric Environment, 2013, 71, 104-114.	1.9	4
56	A numerical simulation of the transport of surface ozone along a Mediterranean coastal area. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1995, 18, 403-410.	0.2	3
57	Tropospheric profile of NO 2 over the Po Valley measured with scan DOAS spectrometer. , 2009, , .		3
58	Convective uplift of pollution from the Sichuan Basin into the Asian monsoon anticyclone during the StratoClim aircraft campaign. Atmospheric Chemistry and Physics, 2021, 21, 3255-3274.	1.9	3
59	<title>Polarization and ring-effect influences upon stratospheric DOAS measurements</title>. , 1997, , .		2
60	<title>Measurements of atmospheric pollutants by a DOAS spectrometer in urban areas</title>. , 1997, , .		2
61	<title>Ground-based NO<formula><inf><roman>2</roman></inf></formula> and O<formula><inf><roman>3</roman></inf></formula> analysis at Monte Cimone station during 1995 and 1996: a case study for spring 1995 NO<formula><inf><roman>2</roman></inf></formula> concentration profiles</title>. , 1999, , .		2
62	<title>Stratosphere NO<formula><inf><roman>2</roman></inf></formula> observation at mid- and high latitude performed with ground-based spectrometers</title>. , 2001, , .		2
63	Cruise ships flow rate emission evaluated by means of a passive DOAS instrument. , 2009, , .		2
64	<title>Performance of a diode-array spectrometer in DOAS applications</title>. , 1997, , .		1
65	Airborne UV and visible spectrometer for DOAS and radiometric measurements. , 1999, , .		1
66	Estimation of the tropospheric air ratio near the thermal tropopause using the aircraft measurements. Russian Meteorology and Hydrology, 2009, 34, 510-514.	0.2	1
67	Ozone and nitrogen dioxide total columns and vertical distributions at the Italian Antarctic station during 1996-2008. Proceedings of SPIE, 2009, , .	0.8	1
68	Airborne UV/Vis actinic measurements in the lower Antarctic stratosphere. Proceedings of SPIE, 2009, , .	0.8	1
69	Corrigendum to "Air mass origins influencing TTL chemical composition over West Africa during 2006 summer monsoon" published in Atmos. Chem. Phys., 10, 10753â€“10770, 2010. Atmospheric Chemistry and Physics, 2010, 10, 10939-10940.	1.9	1
70	Vertical Distribution of Lower Tropospheric <inline-formula> <tex-math notation="TeX">$hbox{NO}_{2}$</tex-math></inline-formula> Derived From Diffuse Solar Radiation Measurements: A Geometrical Retrieval Approach. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4846-4857.	2.7	1
71	<title>High nocturnal ozone transport in greater Ravenna</title>. Proceedings of SPIE, 1995, , .	0.8	0
72	<title>Depolarization ratio of zenith scattered radiation and measured NO<formula><inf><roman>2</roman></inf></formula> slant columns</title>. , 1999, , .		0

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73	In-situ stratospheric ozone measurements by means of a fast ozone sensor (FOZAN) onboard the M55-Geophysica aircraft. , 1999, 3756, 502.		0
74	<title>Application of Fabry-Perot interferometer for atmospheric HCl remote sensing</title>. , 2001, 4168, 286.		0
75	<title>Development of a new methodology for the retrieval of in-situ stratospheric trace gases concentration from airborne limb-absorption measurements</title>. , 2002, 4485, 486.		0
76	<title>Stratospheric ozone and nitrogen dioxide amount obtained with GASCOD-type DOAS spectrometer at Terra Nova Bay Station (Antarctica) during December 2000 - January 2001</title>. , 2002, 4485, 225.		0
77	<title>Fabry-Perot interferometer for atmospheric HCl and CH4 remote sensing</title>. , 2002, 4485, 107.		0
78	Stratospheric nitrogen dioxide in Antarctic regions from ground based and satellite observations during 2001. , 2003, 4882, 304.		0
79	Multiple-angle input optic for satellite UV-Vis NIR remote sensing for climatic studies. , 2003, 4829, 176.		0
80	Daily evolution of atmospheric gas pollutants vertical profile in a coastal mediterranean area. , 2007, , .		0
81	A semianalytic Monte Carlo code for modelling LIDAR measurements. Proceedings of SPIE, 2007, 6745, 372.	0.8	0
82	Multiple axis DOAS measurements for the retrieval of nitrogen dioxide and ozone vertical profiles in the presidential estate of Castel Porziano, Rome. Proceedings of SPIE, 2007, , .	0.8	0
83	Comparison of NO<inf>2</inf> vertical profiles from satellite and ground based measurements over Antarctica. , 2011, , .		0
84	Remote sensing monitoring of the global ozonosphere. , 2013, , .		0
85	Fifteen years of stratospheric nitrogen dioxide and ozone measurements in Antarctica. , 2013, , .		0
86	Monitoring of nitrogen dioxide, ozone and halogens radicals in Antarctica. Proceedings of SPIE, 2013, , .	0.8	0
87	Nitrogen dioxide monitoring with an automatic DOAS station at Terra Nova Bay, Antarctica. Proceedings of SPIE, 1998, , .	0.8	0