Piero Di Carlo

List of Publications by Year in descending order

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63 papers	2,675 citations	218381 26 h-index	205818 48 g-index
79 all docs	79 docs citations	79 times ranked	3887 citing authors

#	Article	IF	Citations
1	The Relationship between PM2.5 and PM10 in Central Italy: Application of Machine Learning Model to Segregate Anthropogenic from Natural Sources. Atmosphere, 2022, 13, 484.	1.0	3
2	Partitioning of Organonitrates in the Production of Secondary Organic Aerosols from Î±-Pinene Photo-Oxidation. Environmental Science & Technology, 2022, 56, 5421-5429.	4.6	4
3	Normal breathing releases SARS-CoV-2 into the air. Journal of Medical Microbiology, 2021, 70, .	0.7	7
4	Effects of Natural Ventilation and Saliva Standard Ejectors during the COVID-19 Pandemic: A Quantitative Analysis of Aerosol Produced during Dental Procedures. International Journal of Environmental Research and Public Health, 2021, 18, 7472.	1.2	19
5	Increasing the maturity of measurements of essential climate variables (ECVs) at Italian atmospheric WMO/GAW observatories by implementing automated data elaboration chains. Computers and Geosciences, 2020, 137, 104432.	2.0	5
6	Neural Network Model Analysis for Investigation of NO Origin in a High Mountain Site. Atmosphere, 2020, 11, 173.	1.0	2
7	Air and surface measurements of SARS-CoV-2 inside a bus during normal operation. PLoS ONE, 2020, 15, e0235943.	1.1	36
8	Megacity and local contributions to regional air pollution: an aircraft case study over London. Atmospheric Chemistry and Physics, 2020, 20, 7193-7216.	1.9	6
9	Exposure to particle debris generated from passenger and truck tires induces different genotoxicity and inflammatory responses in the RAW 264.7 cell line. PLoS ONE, 2019, 14, e0222044.	1.1	7
10	In Vitro Genotoxicity of Polystyrene Nanoparticles on the Human Fibroblast Hs27 Cell Line. Nanomaterials, 2019, 9, 1299.	1.9	124
11	The Relativity of Consciousness: The Application of Time Dilation to The Theory of Integrated Information. NeuroQuantology, 2019, 17, .	0.1	0
12	Precipitation intensity under a warming climate is threatening some Italian premium wines. Science of the Total Environment, 2019, 685, 508-513.	3.9	14
13	An Assessment of Stratospheric Intrusions in Italian Mountain Regions Using STEFLUX. Atmosphere, 2018, 9, 413.	1.0	2
14	Recursive neural network model for analysis and forecast of PM10 and PM2.5. Atmospheric Pollution Research, 2017, 8, 652-659.	1.8	223
15	Effects of ozone exposure on human epithelial adenocarcinoma and normal fibroblasts cells. PLoS ONE, 2017, 12, e0184519.	1.1	13
16	Impact of biomass burning emission on total peroxy nitrates: fire plume identification during the BORTAS campaign. Atmospheric Measurement Techniques, 2016, 9, 5591-5606.	1.2	5
17	Production of peroxy nitrates in boreal biomass burning plumes over Canada during the BORTAS campaign. Atmospheric Chemistry and Physics, 2016, 16, 3485-3497.	1.9	7
18	Interferences in photolytic NO₂ measurements: explanation for an apparent missing oxidant?. Atmospheric Chemistry and Physics, 2016, 16, 4707-4724.	1.9	71

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19	Air pollution: new insight from direct measurements of ozone production. Environmental Chemistry, 2015, 12, 706.	0.7	0
20	Wildfires impact on surface nitrogen oxides and ozone in Central Italy. Atmospheric Pollution Research, 2015, 6, 29-35.	1.8	10
21	Influence of aerosol chemical composition on N₂O₅ uptake: airborne regional measurements in northwestern Europe. Atmospheric Chemistry and Physics, 2015, 15, 973-990.	1.9	66
22	WRF-Chem model predictions of the regional impacts of N₂O₅ heterogeneous processes on night-time chemistry over north-western Europe. Atmospheric Chemistry and Physics, 2015, 15, 1385-1409.	1.9	38
23	Seasonal variation of ozone and black carbon observed at Paknajol, an urban site in the Kathmandu Valley, Nepal. Atmospheric Chemistry and Physics, 2015, 15, 13957-13971.	1.9	56
24	Properties and evolution of biomass burning organic aerosol from Canadian boreal forest fires. Atmospheric Chemistry and Physics, 2015, 15, 3077-3095.	1.9	61
25	Analysis of surface ozone using a recurrent neural network. Science of the Total Environment, 2015, 514, 379-387.	3.9	52
26	Seasonal variation of night-time accumulated Rn-222 in central Italy. Environmental Earth Sciences, 2015, 73, 8589-8597.	1.3	4
27	Desert dust transported over Europe: Lidar observations and model evaluation of the radiative impact. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2881-2898.	1.2	12
28	Aircraft observations of the lower troposphere above a megacity: Alkyl nitrate and ozone chemistry. Atmospheric Environment, 2014, 94, 479-488.	1.9	11
29	Observations and box model analysis of radon-222 in the atmospheric surface layer at Lâ€™Aquila, Italy: March 2009 case study. Environmental Earth Sciences, 2014, 71, 2353-2359.	1.3	20
30	Instrumental monitoring of the birth and development of truffles in a Tuber melanosporum orchard. Mycorrhiza, 2014, 24, 65-72.	1.3	34
31	Aerosol Measurements in the Atmospheric Surface Layer at Lâ€™Aquila, Italy: Focus on Biogenic Primary Particles. Pure and Applied Geophysics, 2014, 171, 2425-2441.	0.8	8
32	Radical chemistry at night: comparisons between observed and modelled HO_x, NO₃ and N₂O₅ during the RONOCO project. Atmospheric Chemistry and Physics, 2014, 14, 1299-1321.	1.9	42
33	Earthquakes trigger the loss of groundwater biodiversity. Scientific Reports, 2014, 4, 6273.	1.6	66
34	Analysis of Summer Ozone Observations at a High Mountain Site in Central Italy (Campo Imperatore,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	9
35	Aerosol measurements at L'Aquila EARLINET station in central Italy: Impact of local sources and large scale transport resolved by LIDAR. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 92, 116-123.	0.6	5
36	Precise measurement of the absolute fluorescence yield of the 337nm band in atmospheric gases. Astroparticle Physics, 2013, 42, 90-102.	1.9	37

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37	Quantifying the impact of BOReal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS) experiment: design, execution and science overview. Atmospheric Chemistry and Physics, 2013, 13, 6239-6261.	1.9	52
38	Ozone photochemistry in boreal biomass burning plumes. Atmospheric Chemistry and Physics, 2013, 13, 7321-7341.	1.9	64
39	Aircraft based four-channel thermal dissociation laser induced fluorescence instrument for simultaneous measurements of NO₂, total peroxy nitrate, total alkyl nitrate, and HNO₃. Atmospheric Measurement Techniques, 2013, 6, 971-980.	1.2	29
40	Precise measurement of the absolute yield of fluorescence photons in atmospheric gases. Nuclear Physics, Section B, Proceedings Supplements, 2011, 212-213, 356-361.	0.5	5
41	Precise Measurement of the Absolute Fluorescence Yield. , 2011, , .		0
42	Effects of land use on surfaceâ€“atmosphere exchanges of trace gases and energy in Borneo: comparing fluxes over oil palm plantations and a rainforest. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3196-3209.	1.8	78
43	An Introduction to Measurements of Atmospheric Composition. , 2011, , 115-128.		0
44	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. Atmospheric Chemistry and Physics, 2010, 10, 169-199.	1.9	130
45	Corrigendum to "Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools" published in Atmos. Chem. Phys., 10, 169â€“199, 2010. Atmospheric Chemistry and Physics, 2010, 10, 563-563.	1.9	5
46	Nitrogen management is essential to prevent tropical oil palm plantations from causing ground-level ozone pollution. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18447-18451.	3.3	161
47	Laser induced fluorescence instrument for NO2 measurements: Observations at a central Italy background site. Atmospheric Environment, 2009, 43, 970-977.	1.9	45
48	Observations of surface radon in Central Italy. Environmental Geology, 2009, 58, 431-436.	1.2	13
49	High-resolution spectrometer for atmospheric studies. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1383-1388.	0.6	1
50	A novel method for the absolute fluorescence yield measurement by AIRFLY. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 597, 55-60.	0.7	18
51	Temperature and humidity dependence of air fluorescence yield measured by AIRFLY. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 597, 50-54.	0.7	30
52	Energy dependence of air fluorescence yield measured by AIRFLY. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 597, 46-49.	0.7	18
53	Spectrally resolved pressure dependence measurements of air fluorescence emission with AIRFLY. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 597, 41-45.	0.7	23
54	Evolution of surface ozone in central Italy based on observations and statistical model. Journal of Geophysical Research, 2007, 112, .	3.3	37

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55	Measurement of the pressure dependence of air fluorescence emission induced by electrons. Astroparticle Physics, 2007, 28, 41-57.	1.9	91
56	AIRFLY: Measurement of the Air Fluorescence Radiation Induced by Electrons. Nuclear Physics, Section B, Proceedings Supplements, 2006, 150, 186-189.	0.5	6
57	AIRFLY: Measurement of the uorescence yield in atmospheric gases. European Physical Journal D, 2006, 56, A361-A367.	0.4	6
58	Missing OH Reactivity in a Forest: Evidence for Unknown Reactive Biogenic VOCs. Science, 2004, 304, 722-725.	6.0	431
59	A Laser-induced Fluorescence Instrument for Detecting Tropospheric OH and HO2: Characteristics and Calibration. Journal of Atmospheric Chemistry, 2004, 47, 139-167.	1.4	182
60	Interference Testing for Atmospheric HOxMeasurements by Laser-induced Fluorescence. Journal of Atmospheric Chemistry, 2004, 47, 169-190.	1.4	59
61	Direct observations of daytime NO3: Implications for urban boundary layer chemistry. Journal of Geophysical Research, 2003, 108, .	3.3	84
62	Lidar and SAGE II observations of Shishaldin Volcano aerosols and lower stratospheric transport. Geophysical Research Letters, 2000, 27, 3445-3448.	1.5	6
63	In SituTrace Gas Measurements. , 0, , 77-155.		4