

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	Missing OH Reactivity in a Forest: Evidence for Unknown Reactive Biogenic VOCs. <i>Science</i> , 2004, 304, 722-725.	6.0	431
2	Recursive neural network model for analysis and forecast of PM10 and PM2.5. <i>Atmospheric Pollution Research</i> , 2017, 8, 652-659.	1.8	223
3	A Laser-induced Fluorescence Instrument for Detecting Tropospheric OH and HO ₂ : Characteristics and Calibration. <i>Journal of Atmospheric Chemistry</i> , 2004, 47, 139-167.	1.4	182
4	Nitrogen management is essential to prevent tropical oil palm plantations from causing ground-level ozone pollution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18447-18451.	3.3	161
5	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 169-199.	1.9	130
6	In Vitro Genotoxicity of Polystyrene Nanoparticles on the Human Fibroblast Hs27 Cell Line. <i>Nanomaterials</i> , 2019, 9, 1299.	1.9	124
7	Measurement of the pressure dependence of air fluorescence emission induced by electrons. <i>Astroparticle Physics</i> , 2007, 28, 41-57.	1.9	91
8	Direct observations of daytime NO ₃ : Implications for urban boundary layer chemistry. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	84
9	Effects of land use on surface-atmosphere exchanges of trace gases and energy in Borneo: comparing fluxes over oil palm plantations and a rainforest. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3196-3209.	1.8	78
10	Interferences in photolytic NO ₂ measurements: explanation for an apparent missing oxidant?. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4707-4724.	1.9	71
11	Influence of aerosol chemical composition on N ₂ O ₅ uptake: airborne regional measurements in northwestern Europe. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 973-990.	1.9	66
12	Earthquakes trigger the loss of groundwater biodiversity. <i>Scientific Reports</i> , 2014, 4, 6273.	1.6	66
13	Ozone photochemistry in boreal biomass burning plumes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7321-7341.	1.9	64
14	Properties and evolution of biomass burning organic aerosol from Canadian boreal forest fires. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3077-3095.	1.9	61
15	Interference Testing for Atmospheric HO _x Measurements by Laser-induced Fluorescence. <i>Journal of Atmospheric Chemistry</i> , 2004, 47, 169-190.	1.4	59
16	Seasonal variation of ozone and black carbon observed at Paknajol, an urban site in the Kathmandu Valley, Nepal. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13957-13971.	1.9	56
17	Quantifying the impact of Boreal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS) experiment: design, execution and science overview. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6239-6261.	1.9	52
18	Analysis of surface ozone using a recurrent neural network. <i>Science of the Total Environment</i> , 2015, 514, 379-387.	3.9	52

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19	Laser induced fluorescence instrument for NO ₂ measurements: Observations at a central Italy background site. <i>Atmospheric Environment</i> , 2009, 43, 970-977.	1.9	45
20	Radical chemistry at night: comparisons between observed and modelled HO _x , NO ₃ and N ₂ O ₅ during the RONOCO project. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1299-1321.	1.9	42
21	WRF-Chem model predictions of the regional impacts of N ₂ O ₅ heterogeneous processes on night-time chemistry over north-western Europe. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1385-1409.	1.9	38
22	Evolution of surface ozone in central Italy based on observations and statistical model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	37
23	Precise measurement of the absolute fluorescence yield of the 337nm band in atmospheric gases. <i>Astroparticle Physics</i> , 2013, 42, 90-102.	1.9	37
24	Air and surface measurements of SARS-CoV-2 inside a bus during normal operation. <i>PLoS ONE</i> , 2020, 15, e0235943.	1.1	36
25	Instrumental monitoring of the birth and development of truffles in a <i>Tuber melanosporum</i> orchard. <i>Mycorrhiza</i> , 2014, 24, 65-72.	1.3	34
26	Temperature and humidity dependence of air fluorescence yield measured by AIRFLY. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 597, 50-54.	0.7	30
27	Aircraft based four-channel thermal dissociation laser induced fluorescence instrument for simultaneous measurements of NO ₂ , total peroxy nitrate, total alkyl nitrate, and HNO ₃ . <i>Atmospheric Measurement Techniques</i> , 2013, 6, 971-980.	1.2	29
28	Spectrally resolved pressure dependence measurements of air fluorescence emission with AIRFLY. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 597, 41-45.	0.7	23
29	Observations and box model analysis of radon-222 in the atmospheric surface layer at L'Aquila, Italy: March 2009 case study. <i>Environmental Earth Sciences</i> , 2014, 71, 2353-2359.	1.3	20
30	Effects of Natural Ventilation and Saliva Standard Ejectors during the COVID-19 Pandemic: A Quantitative Analysis of Aerosol Produced during Dental Procedures. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7472.	1.2	19
31	A novel method for the absolute fluorescence yield measurement by AIRFLY. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 597, 55-60.	0.7	18
32	Energy dependence of air fluorescence yield measured by AIRFLY. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 597, 46-49.	0.7	18
33	Precipitation intensity under a warming climate is threatening some Italian premium wines. <i>Science of the Total Environment</i> , 2019, 685, 508-513.	3.9	14
34	Observations of surface radon in Central Italy. <i>Environmental Geology</i> , 2009, 58, 431-436.	1.2	13
35	Effects of ozone exposure on human epithelial adenocarcinoma and normal fibroblasts cells. <i>PLoS ONE</i> , 2017, 12, e0184519.	1.1	13
36	Desert dust transported over Europe: Lidar observations and model evaluation of the radiative impact. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2881-2898.	1.2	12

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37	Aircraft observations of the lower troposphere above a megacity: Alkyl nitrate and ozone chemistry. <i>Atmospheric Environment</i> , 2014, 94, 479-488.	1.9	11
38	Wildfires impact on surface nitrogen oxides and ozone in Central Italy. <i>Atmospheric Pollution Research</i> , 2015, 6, 29-35.	1.8	10
39	Analysis of Summer Ozone Observations at a High Mountain Site in Central Italy (Campo Imperatore.) <i>Tj ETQq1 1 0,784314 rgBT /Ove</i>	0.8	9
40	Aerosol Measurements in the Atmospheric Surface Layer at L'Aquila, Italy: Focus on Biogenic Primary Particles. <i>Pure and Applied Geophysics</i> , 2014, 171, 2425-2441.	0.8	8
41	Production of peroxy nitrates in boreal biomass burning plumes over Canada during the BORTAS campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3485-3497.	1.9	7
42	Exposure to particle debris generated from passenger and truck tires induces different genotoxicity and inflammatory responses in the RAW 264.7 cell line. <i>PLoS ONE</i> , 2019, 14, e0222044.	1.1	7
43	Normal breathing releases SARS-CoV-2 into the air. <i>Journal of Medical Microbiology</i> , 2021, 70, .	0.7	7
44	Lidar and SAGE II observations of Shishaldin Volcano aerosols and lower stratospheric transport. <i>Geophysical Research Letters</i> , 2000, 27, 3445-3448.	1.5	6
45	AIRFLY: Measurement of the Air Fluorescence Radiation Induced by Electrons. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 150, 186-189.	0.5	6
46	AIRFLY: Measurement of the uorescence yield in atmospheric gases. <i>European Physical Journal D</i> , 2006, 56, A361-A367.	0.4	6
47	Megacity and local contributions to regional air pollution: an aircraft case study over London. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7193-7216.	1.9	6
48	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 <i>Atmos. Chem. Phys.</i> , 10, 169-199, 2010. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 563-563.	1.9	5
49	Precise measurement of the absolute yield of fluorescence photons in atmospheric gases. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2011, 212-213, 356-361.	0.5	5
50	Aerosol measurements at L'Aquila EARLINET station in central Italy: Impact of local sources and large scale transport resolved by LIDAR. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 92, 116-123.	0.6	5
51	Impact of biomass burning emission on total peroxy nitrates: fire plume identification during the BORTAS campaign. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5591-5606.	1.2	5
52	Increasing the maturity of measurements of essential climate variables (ECVs) at Italian atmospheric WMO/GAW observatories by implementing automated data elaboration chains. <i>Computers and Geosciences</i> , 2020, 137, 104432.	2.0	5
53	Seasonal variation of night-time accumulated Rn-222 in central Italy. <i>Environmental Earth Sciences</i> , 2015, 73, 8589-8597.	1.3	4
54	In Situ Trace Gas Measurements. , 0, , 77-155.		4

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55	Partitioning of Organonitrates in the Production of Secondary Organic Aerosols from $\hat{I}\pm$ -Pinene Photo-Oxidation. Environmental Science & Technology, 2022, 56, 5421-5429.	4.6	4
56	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
57	An Assessment of Stratospheric Intrusions in Italian Mountain Regions Using STEFLUX. Atmosphere, 2018, 9, 413.	1.0	2
58	Neural Network Model Analysis for Investigation of NO Origin in a High Mountain Site. Atmosphere, 2020, 11, 173.	1.0	2
59	High-resolution spectrometer for atmospheric studies. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1383-1388.	0.6	1
60	Precise Measurement of the Absolute Fluorescence Yield. , 2011, , .		0
61	Air pollution: new insight from direct measurements of ozone production. Environmental Chemistry, 2015, 12, 706.	0.7	0
62	The Relativity of Consciousness: The Application of Time Dilation to The Theory of Integrated Information. NeuroQuantology, 2019, 17, .	0.1	0
63	An Introduction to Measurements of Atmospheric Composition. , 2011, , 115-128.		0