

Paolo Cristofanelli

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118
papers

3,323
citations

30
h-index

55
g-index

144
ext. papers

3,748
ext. citations

5
avg, IF

4.46
L-index

#	Paper	IF	Citations
118	Stratosphere-troposphere exchange: A review, and what we have learned from STACCATO. <i>Journal of Geophysical Research</i> , 2003 , 108,		333
117	Atmospheric Brown Clouds in the Himalayas: first two years of continuous observations at the Nepal Climate Observatory-Pyramid (5079 m). <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7515-7531	6.8	202
116	Aerosol mass and black carbon concentrations, a two year record at NCO-P (5079 m, Southern Himalayas). <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8551-8562	6.8	157
115	Estimated impact of black carbon deposition during pre-monsoon season from Nepal Climate Observatory [Pyramid data and snow albedo changes over Himalayan glaciers. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6603-6615	6.8	139
114	High frequency new particle formation in the Himalayas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15666-71	11.5	122
113	Chemical composition of PM ₁₀ and PM _{2.5} at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4583-4596	6.8	119
112	Weak precipitation, warm winters and springs impact glaciers of south slopes of Mt. Everest (central Himalaya) in the last 2 decades (1994-2013). <i>Cryosphere</i> , 2015 , 9, 1229-1247	5.5	114
111	Aerosol-ozone correlations during dust transport episodes. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 1201-1215	6.8	105
110	Seasonal variability of PM and PM composition and sources in an urban background site in Southern Italy. <i>Science of the Total Environment</i> , 2018 , 612, 202-213	10.2	98
109	The ABC-Pyramid Atmospheric Research Observatory in Himalaya for aerosol, ozone and halocarbon measurements. <i>Science of the Total Environment</i> , 2008 , 391, 252-61	10.2	97
108	Characterization of atmospheric aerosols at Monte Cimone, Italy, during summer 2004: Source apportionment and transport mechanisms. <i>Journal of Geophysical Research</i> , 2006 , 111,		95
107	Saharan dust and daily mortality in Emilia-Romagna (Italy). <i>Occupational and Environmental Medicine</i> , 2011 , 68, 446-51	2.1	86
106	Tropospheric ozone variations at the Nepal Climate Observatory-Pyramid (Himalayas, 5079 m a.s.l.) and influence of deep stratospheric intrusion events. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6537-6549	6.8	79
105	Background ozone variations at Mt. Cimone Station. <i>Atmospheric Environment</i> , 2000 , 34, 5183-5189	5.3	79
104	Aerosol optical properties and radiative forcing in the high Himalaya based on measurements at the Nepal Climate Observatory-Pyramid site (5079 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5859-5872	6.8	78
103	Background ozone in the southern Europe and Mediterranean area: influence of the transport processes. <i>Environmental Pollution</i> , 2009 , 157, 1399-406	9.3	69
102	A 6-year analysis of stratospheric intrusions and their influence on ozone at Mt. Cimone (2165 m above sea level). <i>Journal of Geophysical Research</i> , 2006 , 111,		66

101	Continuous measurements of aerosol physical parameters at the Mt. Cimone GAW Station (2165 m asl, Italy). <i>Science of the Total Environment</i> , 2008 , 391, 241-51	10.2	61
100	Stratosphere-to-troposphere transport: A model and method evaluation. <i>Journal of Geophysical Research</i> , 2003 , 108,		56
99	Influence of biomass burning and anthropogenic emissions on ozone, carbon monoxide and black carbon at the Mt. Cimone GAW-WMO global station (Italy, 2165 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 15-30	6.8	55
98	Anomalous high ozone concentrations recorded at a high mountain station in Italy in summer 2003. <i>Atmospheric Environment</i> , 2007 , 41, 1383-1394	5.3	50
97	Stratosphere-troposphere exchange: A model and method intercomparison. <i>Journal of Geophysical Research</i> , 2003 , 108,		49
96	Significant variations of trace gas composition and aerosol properties at Mt. Cimone during air mass transport from North Africa [contributions from wildfire emissions and mineral dust. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4603-4619	6.8	48
95	Forecast, observation and modelling of a deep stratospheric intrusion event over Europe. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 763-777	6.8	47
94	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	6.8	44
93	Seasonal variations of aerosol size distributions based on long-term measurements at the high altitude Himalayan site of Nepal Climate Observatory-Pyramid (5079 m), Nepal. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10679-10690	6.8	38
92	Deposition of atmospheric nitrous acid on alkaline snow surfaces. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	35
91	Response of alpine plant flower production to temperature and snow cover fluctuation at the species range boundary. <i>Plant Ecology</i> , 2012 , 213, 1-13	1.7	34
90	High black carbon and ozone concentrations during pollution transport in the Himalayas: five years of continuous observations at NCO-P global GAW station. <i>Journal of Environmental Sciences</i> , 2013 , 25, 1618-25	6.4	34
89	Short-term climatology of PM10 at a high altitude background station in southern Europe. <i>Atmospheric Environment</i> , 2013 , 65, 142-152	5.3	31
88	Long-term surface ozone variability at Mt. Cimone WMO/GAW global station (2165 m a.s.l., Italy). <i>Atmospheric Environment</i> , 2015 , 101, 23-33	5.3	30
87	Influence of open vegetation fires on black carbon and ozone variability in the southern Himalayas (NCO-P, 5079 m a.s.l.). <i>Environmental Pollution</i> , 2014 , 184, 597-604	9.3	28
86	Atmospheric Pollution in the Hindu KushHimalaya Region. <i>Mountain Research and Development</i> , 2012 , 32, 468-479	1.4	28
85	Dynamic recycling of gaseous elemental mercury in the boundary layer of the Antarctic Plateau. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11027-11036	6.8	24
84	3-year chemical composition of free tropospheric PM1 at the Mt. Cimone GAW global station [South Europe [2165 m a.s.l.. <i>Atmospheric Environment</i> , 2014 , 87, 218-227	5.3	23

83	Study of temperature and precipitation variations in Italy based on surface instrumental observations. <i>Global and Planetary Change</i> , 2007 , 57, 308-318	4.2	23
82	Evaluation of the MACC operational forecast system [potential and challenges of global near-real-time modelling with respect to reactive gases in the troposphere. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 14005-14030	6.8	19
81	European emissions of the powerful greenhouse gases hydrofluorocarbons inferred from atmospheric measurements and their comparison with annual national reports to UNFCCC. <i>Atmospheric Environment</i> , 2017 , 158, 85-97	5.3	18
80	Effect of the extreme summer heat waves on isolated populations of two orophitic plants in the north Apennines (Italy). <i>Nordic Journal of Botany</i> , 2012 , 30, 109-115	1.1	18
79	Atmospheric Brown Clouds in the Himalayas: first two years of continuous observations at the Nepal-Climate Observatory at Pyramid (5079 m)		18
78	Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11327-11340	6.8	17
77	Transport of short-lived climate forcers/pollutants (SLCF/P) to the Himalayas during the South Asian summer monsoon onset. <i>Environmental Research Letters</i> , 2014 , 9, 084005	6.2	16
76	Aerosol mass and black carbon concentrations, two year-round observations at NCO-P (5079 m, Southern Himalayas)		16
75	Wet deposition at the base of Mt Everest: Seasonal evolution of the chemistry and isotopic composition. <i>Atmospheric Environment</i> , 2016 , 146, 100-112	5.3	15
74	Seasonal variations of aerosol size distributions based on long-term measurements at the high altitude Himalayan site of Nepal Climate Observatory-Pyramid (5079 m), Nepal		15
73	The fingerprint of the summer 2018 drought in Europe on ground-based atmospheric CO measurements. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190513	5.8	15
72	Summer atmospheric composition over the Mediterranean basin: Investigation on transport processes and pollutant export to the free troposphere by observations at the WMO/GAW Mt. Cimone global station (Italy, 2165 m a.s.l.). <i>Atmospheric Environment</i> , 2016 , 141, 139-152	5.3	15
71	An outstanding Saharan dust event at Mt. Cimone (2165 m a.s.l., Italy) in March 2004. <i>Atmospheric Environment</i> , 2015 , 113, 223-235	5.3	14
70	Transport of Stratospheric Air Masses to the Nepal Climate Observatory Pyramid (Himalaya; 5079 m MSL): A Synoptic-Scale Investigation. <i>Journal of Applied Meteorology and Climatology</i> , 2012 , 51, 1489-1507	2.7	14
69	Observation and analysis of spatiotemporal characteristics of surface ozone and carbon monoxide at multiple sites in the Kathmandu Valley, Nepal. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14113-14132	6.8	14
68	Long-term (2002-2012) investigation of Saharan dust transport events at Mt. Cimone GAW global station, Italy (2165 m a.s.l.). <i>Elementa</i> , 4 , 000085	3.6	13
67	Investigation of reactive gases and methane variability in the coastal boundary layer of the central Mediterranean basin. <i>Elementa</i> , 2017 , 5,	3.6	13
66	Black Carbon and Ozone Variability at the Kathmandu Valley and at the Southern Himalayas: A Comparison between a Hot Spot and a Downwind High-Altitude Site. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 623-635	4.6	13

65	Stratospheric intrusion index (SI2) from baseline measurement data. <i>Theoretical and Applied Climatology</i> , 2009 , 97, 317-325	3	12
64	Analysis of multi-year near-surface ozone observations at the WMO/GAW Concordia station (75°06'S, 123°20'E, 3280 m a.s.l. Antarctica). <i>Atmospheric Environment</i> , 2018 , 177, 54-63	5.3	11
63	In situ physical and chemical characterisation of the Eyjafjallajökull aerosol plume in the free troposphere over Italy. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1075-1092	6.8	11
62	Chemical composition of PM ₁₀ and PM _{2.5} at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.)		11
61	Acute and chronic ozone exposure temporarily affects seed germination in alpine plants. <i>Plant Biosystems</i> , 2017 , 151, 304-315	1.6	10
60	Influence of stratospheric air masses on radiotracers and ozone over the central Mediterranean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 7164-7182	4.4	10
59	STEFLEX, a tool for investigating stratospheric intrusions: application to two WMO/GAW global stations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14203-14217	6.8	10
58	Synoptic-scale dust transport events in the southern Himalaya. <i>Aeolian Research</i> , 2014 , 13, 51-57	3.9	9
57	Five-year analysis of background carbon dioxide and ozone variations during summer seasons at the Mario Zucchelli station (Antarctica). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 831-842	3.3	9
56	Atmospheric Ice Nucleating Particle measurements at the high mountain observatory Mt. Cimone (2165 m a.s.l., Italy). <i>Atmospheric Environment</i> , 2017 , 171, 173-180	5.3	8
55	New atmospheric composition observations in the Karakorum region: Influence of local emissions and large-scale circulation during a summer field campaign. <i>Atmospheric Environment</i> , 2014 , 97, 75-82	5.3	8
54	Analysis of Summer Ozone Observations at a High Mountain Site in Central Italy (Campo Imperatore, 2388 m a.s.l.). <i>Pure and Applied Geophysics</i> , 2013 , 170, 1985-1999	2.2	8
53	Continuous observations of synoptic-scale dust transport at the Nepal Climate Observatory-Pyramid (5079 m a.s.l.) in the Himalayas		8
52	Toward a definition of Essential Mountain Climate Variables. <i>One Earth</i> , 2021 , 4, 805-827	8.1	8
51	Vertical distribution of aerosol optical properties in the Po Valley during the 2012 summer campaigns. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5371-5389	6.8	8
50	The GLAM Airborne Campaign across the Mediterranean Basin. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 361-380	6.1	7
49	Anthropogenic non-methane volatile hydrocarbons at Mt. Cimone (2165 m a.s.l., Italy): Impact of sources and transport on atmospheric composition. <i>Atmospheric Environment</i> , 2016 , 140, 395-403	5.3	7
48	Automatic Weather Station Observations of the April 2014 Mount Everest Avalanche. <i>Arctic, Antarctic, and Alpine Research</i> , 2017 , 49, 321-330	1.8	6

47	Evaluation of the MACC operational forecast system [potential and challenges of global near-real-time modelling with respect to reactive gases in the troposphere 2015 ,		6
46	Environmental conditions at the South Col of Mount Everest and their impact on hypoxia and hypothermia experienced by mountaineers. <i>Extreme Physiology and Medicine</i> , 2012 , 1, 2		6
45	Only coarse particles from the Sahara?. <i>Epidemiology</i> , 2012 , 23, 642-3	3.1	6
44	High Concentrations of Ozone Air Pollution on Mount Everest: Health Implications for Sherpa Communities and Mountaineers. <i>High Altitude Medicine and Biology</i> , 2016 , 17, 365-369	1.9	6
43	Three-year observations of halocarbons at the Nepal Climate Observatory at Pyramid (NCO-P, 5079 m a.s.l.) on the Himalayan range. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3431-3441	6.8	5
42	Influence of lower stratosphere/upper troposphere transport events on surface ozone at the Everest-Pyramid GAW Station (Nepal): first year of analysis. <i>International Journal of Remote Sensing</i> , 2009 , 30, 4083-4097	3.1	5
41	Non-Methane Volatile Organic Compounds in the Background Atmospheres of a Southern European Mountain Site (Mt. Cimone, Italy): Annual and Seasonal Variability. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 581-592	4.6	5
40	Tropospheric ozone variations at the Nepal climate observatory [Pyramid (Himalayas, 5079 m a.s.l.) and influence of stratospheric intrusion events		5
39	Preliminary estimation of black carbon deposition from Nepal Climate Observatory-Pyramid data and its possible impact on snow albedo changes over Himalayan glaciers during the pre-monsoon season		5
38	Weak precipitation, warm winters and springs impact glaciers of south slopes of Mt. Everest (central Himalaya) in the last two decades (1994-2013)		5
37	Advection pathways at the Mt. Cimone WMO-GAW station: Seasonality, trends, and influence on atmospheric composition. <i>Atmospheric Environment</i> , 2020 , 234, 117513	5.3	5
36	Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site. <i>Atmospheric Research</i> , 2019 , 219, 57-64	5.4	5
35	Mechanism of Daytime Strong Winds on the Northern Slopes of Himalayas, near Mount Everest: Observation and Simulation. <i>Journal of Applied Meteorology and Climatology</i> , 2018 , 57, 255-272	2.7	5
34	Negative ozone anomalies at a high mountain site in northern Italy during 2020: a possible role of COVID-19 lockdowns?. <i>Environmental Research Letters</i> , 2021 , 16, 074029	6.2	5
33	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	4.5	4
32	Aerosol optical properties and radiative forcing in the high Himalaya based on measurements at the Nepal Climate Observatory [Pyramid site (5100 m a.s.l.) 2010 ,		4
31	Analysis of near-surface ozone variations in Terra Nova Bay, Antarctica. <i>Antarctic Science</i> , 2008 , 20, 415-421		4
30	Seasonal variation of ozone and black carbon observed at Paknajol, an urban site in the Kathmandu Valley, Nepal		4

29	Decadal O ₃ variability at the Mt. Cimone WMO/GAW global station (2,165 m a.s.l., Italy) and comparison with two high-mountain reference sites in Europe. <i>Elementa</i> , 2020 , 8,	3.6	3
28	High-Mountain Atmospheric Research. <i>SpringerBriefs in Meteorology</i> , 2018 ,		3
27	Evaluation and optimization of ICOS atmosphere station data as part of the labeling process. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 89-116	4	3
26	Air Quality Characterization at Three Industrial Areas in Southern Italy. <i>Frontiers in Environmental Science</i> , 2020 , 7,	4.8	2
25	Influence of biomass burning and anthropogenic emissions on ozone, carbon monoxide and black carbon concentrations at the Mt. Cimone GAW-WMO global station (Italy, 2165 m a.s.l.)		2
24	Significant variations of trace gas composition and aerosol properties at Mt. Cimone during air mass transport from North Africa: contributions from wildfire emissions and mineral dust		2
23	The Increasing Surface Ozone and Tropospheric Ozone in Antarctica and Their Possible Drivers. <i>Environmental Science & Technology</i> , 2021 , 55, 8542-8553	10.3	2
22	Carbonaceous Aerosol in Polar Areas: First Results and Improvements of the Sampling Strategies. <i>Atmosphere</i> , 2021 , 12, 320	2.7	2
21	Interannual and seasonal variability of NO _x observed at the Mt. Cimone GAW/WMO global station (2165 m a.s.l., Italy). <i>Atmospheric Environment</i> , 2021 , 249, 118245	5.3	2
20	An Assessment of Stratospheric Intrusions in Italian Mountain Regions Using STEFLUX. <i>Atmosphere</i> , 2018 , 9, 413	2.7	2
19	STEFLUX, a tool for investigating stratospheric intrusions: application to two WMO/GAW global stations 2016 ,		1
18	Neural Network Model Analysis for Investigation of NO _x Origin in a High Mountain Site. <i>Atmosphere</i> , 2020 , 11, 173	2.7	1
17	10 The ABC-Pyramid: a scientific laboratory at 5079 m a.s.l. for the study of atmospheric composition change and climate. <i>Developments in Earth Surface Processes</i> , 2007 , 10, 67-75	2.8	1
16	Was an Avalanche Swarm Responsible for the Devastation at Mount Everest Base Camp During the April 2015 Nepal Earthquake?. <i>High Altitude Medicine and Biology</i> , 2020 , 21, 352-359	1.9	1
15	Air Quality Measurements at Multan, Pakistan. <i>Research for Development</i> , 2014 , 137-147	0.4	1
14	The D. Vittori Observatory at Mt. Cimone: A Lighthouse for the Mediterranean Troposphere. <i>SpringerBriefs in Meteorology</i> , 2018 , 1-14		1
13	Investigation of Atmospheric Reactive Gases at Mt. Cimone. <i>SpringerBriefs in Meteorology</i> , 2018 , 45-73		1
12	Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign		1

11	New "Smart" Systems for Atmospheric Aerosol and Reactive Gas Sampling in Ambient Air. <i>Sensors</i> , 2018 , 18,	3.8	1
10	First Evidences of Methyl Chloride (CH ₃ Cl) Transport from the Northern Italy Boundary Layer during Summer 2017. <i>Atmosphere</i> , 2020 , 11, 238	2.7	0
9	Characterization of atmospheric total gaseous mercury at a remote high-elevation site (Col Margherita Observatory, 2543m a.s.l.) in the Italian Alps. <i>Atmospheric Environment</i> , 2022 , 271, 118917	5.3	0
8	Surface ozone trends over a 21-year period at El Arenosillo observatory (Southwestern Europe). <i>Atmospheric Research</i> , 2022 , 269, 106048	5.4	0
7	Calibration and assessment of electrochemical low-cost sensors in remote alpine harsh environments. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6005-6021	4	0
6	Mercury in precipitated and surface snow at Dome C and a first estimate of mercury depositional fluxes during the Austral summer on the high Antarctic plateau. <i>Atmospheric Environment</i> , 2021 , 262, 118634	5.3	0
5	A Comprehensive CTM Assessment Over an Highly Polluted Area. <i>Springer Proceedings in Complexity</i> , 2016 , 483-488	0.3	
4	Non-CO ₂ Greenhouse Gases. <i>SpringerBriefs in Meteorology</i> , 2018 , 15-43		
3	Aerosol Chemical Composition at the Mt. Cimone WMO/GAW Global Station. <i>SpringerBriefs in Meteorology</i> , 2018 , 99-118		
2	Studies on Environmental Radionuclides at Mt. Cimone. <i>SpringerBriefs in Meteorology</i> , 2018 , 75-97		
1	Application of a Common Methodology to Select in Situ CO ₂ Observations Representative of the Atmospheric Background to an Italian Collaborative Network. <i>Atmosphere</i> , 2021 , 12, 246	2.7	