

Paolo Bonasoni – Curriculum vitae

Paolo Bonasoni

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Degree in Physics from the University of Bologna, discussed with Prof. Ottavio Vittori.

Already a Research Director at the Institute of Atmospheric Sciences and Climate of the National Research Council of Bologna, he is currently an Associate Senior Scientist.

President of the PROAMBIENTE Consortium, Tecnopolo Bologna CNR-Emilia-Romagna Region, part of the Emilia-Romagna High Technology Network.

He has over 30 years of experience in atmospheric studies on atmospheric composition and atmospheric processes in high mountains and remote areas, technological research, and technology transfer. He was a contract professor in Environmental Physics Laboratory at the Department of Environmental Sciences at the University of Urbino.

He promoted the realization of the CNR "O. Vittori" Climatic Observatory at Monte Cimone (2165 m) and the "Nepal Climate Observatory - Pyramid" in the Himalayas (5079 m), two GAW Global Stations of which he was the first scientific coordinator. He was also responsible for the CNR GAW Regional Station "Rita Atria" at Capo Granitola (Sicily) and the scientific coordinator of the CNR Testa Grigia Station at Plateau Rosà GAW Regional Station (3480 m, Alps), a research infrastructure of the Department of Earth System Science and Technologies for the Environment. He has participated in experimental activities in Antarctica, the Himalayas, and the Alps.

In 2004, he promoted "Il Sentiero dell'Atmosfera," an educational and training path for schools and tourists at the foot of Monte Cimone, and in 2019, the initiative "Rifugi Sentinella del Clima e dell'Ambiente," a joint project between CNR and CAI (Italian Alpine Club).

He has been responsible for numerous national and international projects and many scientific cooperation agreements. He is in charge of the NOSE project – Network for Odour Sensitivity, a system for studying and monitoring odorous emissions that he developed in 2019.

In 2022 he was appointed President of PROAMBIENTE S.c.r.l. which is part of the CNR-Bologna Technopole and of the Emilia Romagna High Technology Network.

He has published over 150 scientific articles in peer-reviewed journals and has participated in numerous conferences.

Roles and Activities

Responsibility or coordination of scientific international and national projects, many of them related to studies and technological researches in mountain or remote areas.

- Project Manager of the EU project VOTALP - Vertical ozone Transports in the Alps; 1996-1998.
- Project Manager of the EU project VOTALP II - Vertical ozone transports in the Alps; 1998-2000.
- Project Manager of the EU project MINATROC - MINeral dust And TROpospherich Chemistry; **2000-2003**.
- Project Manager of the EU project STACCATO "Influence of Stratosphere-Troposphere Exchange in a Changing Climate on Atmospheric Transport and Oxidation Capacity"; 2000-2002.
- Project Manager of the ESA project: DUP-POLPO Pollution Hot Spot Monitoring from GOME Applied to the Po-Basin; 2001-2002.

- Project Manager of the INRM Italian project “L’atmosfera e le montagne italiane dalle Alpi al Mediterraneo: identificazione e ruolo delle stazioni di monitoraggio in alta quota”; 2002-2003.
- Project Manager of the CESI Italian project : OZOMONT - Studio degli andamenti delle serie storiche di ozono troposferico rilevate nelle stazioni di Platau Rosa e di Monte Cimone; 2004-2004.
- Project Manager of the PNRA project DO3meCO2 - Trace gas concentrations and aerosol optical characteristic measurements at Terra Nova Bay and Dome Concordia stations; 2004-2007.
- Head of Unit in the framework of the EU project: ACCENT- Atmospheric composition change: a European network; 2004-2009.
- Project Manager of the EvK2CNR project: SHARE Station at High Altitude for Research on the Environment; 2005-2013.
- Project Manager of the CESI project OZOMONT II - Identificazione di processi di trasporto di masse d’aria di origine naturale ed antropica e valutazione della loro influenza in aree remote di alta montagna ed in aree urbane; 2005-2005.
- Head of Unit in the framework of AEROCLOUDS - Studio degli effetti diretti ed indiretti di aerosol e nubi sul clima; 2006-2009.
- Project Manager of the EU project EUSAAR - European Supersites for Atmospheric Aerosol Research; 2006-2011.
- Head of the Convention aimed at the realization of educational proposals and dissemination of scientific activities at the research station CNR-ISAC "O. Vittori" - Monte Cimone; 2004-2014.
- Project Manager of the SHARE-Tech Station at High Altitude for Research on the Environment - Advanced Technological Research and Development; 2008-2012.
- Project Manager of the EU project ACTRIS - Aerosols, Clouds, and Trace gases Research InfraStructure Network, 2012-2015.
- Head of Unit in the framework of Next-Data; 2013-2015.
- Project Manager of the MIUR PON project I-AMICA - Infrastruttura di Alta tecnologia per il monitoraggio Integrato Climatico-Ambientale; 2012-2015.
- Project Manager for ISAC-CNR Institute of the MIUR project: CISAS - Centro Internazionale di Studi Avanzati su Ambiente, ecosistema e Salute umana; 2016-2019.
- Project Manager of the POR-FESR project: INFORMARE - Sistema informativo integrato per il litorale emiliano-romagnolo; 2017-2019.
- Project Manager of the NOSE project - Network for Odor Sensitivity funded by ARPA Sicily; 2019-2022.
- Coordinator of Working Group on Cluster 6 - Environment Observations - Climate changes, “La rete APRE verso Horizon Europe” in the framework of APRE - Agenzia per la Promozione della Ricerca Europea, 2020.
- Coordinator on Working group: “CO₂ and other GHGs” in the Mirror Copernicus program, 2020-2021.
- Head of ISAC-CNR unit in the ALPACA “Analysis of Light absorbing PArticles: linking Cryosphere to Atmosphere in Peruvian Andes” international project. 2020-2022.
- Project Manager of the NOSE-2 project - Network for Odor Sensitivity funded by ARPA Sicily; 2022-2024.
- President of the PROAMBIENTE Industrial Research Consortium, Bologna CNR - Emilia Romagna Region Technopole. 2022-2025

Related ISI Publications

- Cong Z., Arduini J., Chen Y., Saikawa E., Yao T., Zhang Q., Xie M., Tan L., Maione M., **Bonasoni P.**, Wan X. Trends of halocarbons in the Himalayan atmosphere and implications. Science of the Total Environment. DOI: 10.1016/j.scitotenv.2024.177348. 2024.
- Villalobos-Puma E., L., Suarez, S. Gillardoni, **P. Bonasoni**, Paolo, Y.F. Silva, Yamina F. Atmospheric black carbon observations and its valley-mountain dynamics: Eastern cordillera of the central Andes of Peru. Environmental Pollution, DOI: 10.1016/j.envpol.2024.124089. Volume 355, 15, 124089. 2024

- P., Cristofanelli, P. Trisolino, F. Calzolari, **P. Bonasoni**, D. Putero, Influence of wildfire emissions to carbon dioxide (CO₂) observed at the Mt. Cimone station (Italy, 2165 m asl): A multi-year investigation. *Atmospheric Environment*, DOI: 10.1016/j.atmosenv.2024.120577 Volume 330, 120577, 2024.
- S. Trini Castelli; F. Ubaldi; G. Tinarelli; O. Drofa; P. Malguzzi; **P. Bonasoni**. Tracing the origin of odour nuisance from citizens' notifications with the SMART modelling system *Atmospheric Environment*. 2023-11. DOI: 10.1016/j.atmosenv.2023.119992. 2023.
- Gilardoni, S., Di Mauro, B., **Bonasoni, P.** Black carbon, organic carbon, and mineral dust in South American tropical glaciers: A review. DOI: 10.1016/j.gloplacha.2022.103837. *Global and Planetary Change*, 2022, 213, 103837. 2022.
- Chianese, E.; Tirimberio, G.; Dinoi, A.; Cesari, D.; Contini, D.; **Bonasoni, P.**; Marinoni, A.; Andreoli, Vi.; Mannarino, V.; Moretti, S.; Naccarato, A.; Sprovieri, F. Particulate Matter Ionic and Elemental Composition during the Winter Season: A Comparative Study among Rural, Urban and Remote Sites in Southern Italy. *Atmosphere*, 13(2), 356. 2022.
- Vardè, C. Barbante, E. Barbaro, F. Becherini, **P. Bonasoni**, M. Busetto, F. Calzolari, G. Cozzi, P. Cristofanelli, F. Dallo, F. De Blasi, M. Feltracco, J. Gabrieli, A. Gambaro, N. Maffezzoli, E. Morabito, D. Putero, A. Spolaor, W. R.L. Cairns.; Characterization of atmospheric total gaseous mercury at a remote high-elevation site (Col Margherita Observatory, 2543 m a.s.l.) in the Italian Alps. *Atmospheric environment* 271, 1-19, DOI 10.1016/j.atmosenv.2021.118917. 2022.
- F. Bianchi , H. Junninen , A. Bigi, V. A. Sinclair, L. Dada, C. R. Hoyle, Q. Zha, L. Yao, L. R. Ahonen, **P. Bonasoni**, S. Buenrostro Mazon, M. Hutterli, P. Laj, K. Lehtipalo, J. Kangasluoma, V.-M. Kerminen, J. Kontkanen, A. Marinoni, S. Mirme, U. Molteni, T. Petäjä, M. Riva, C. Rose, K. Sellegri, C. Yan, D. R. Worsnop, M. Kulmala, U. Baltensperger and J. Dommen. Biogenic particles formed in the Himalaya as an important source of free tropospheric aerosols. DOI: 10.1038/s41561-020-00661-5 *Nature Geoscience* 14, 4–9. 2021.
- Dallo F.; Zannoni D.; Gabrieli J.; Cristofanelli P.; Calzolari F.; De Blasi F.; Spolaor A.; Battistel D.; Lodi R.; Cairns W. R. L.; Fjaeraa A. M.; **Bonasoni P.**; Barbante C.; Calibration and assessment of electrochemical low-cost sensors in remote alpine harsh environments. *ATMOSPHERIC MEASUREMENT TECHNIQUES*. Volume 14, 9, 6005-6021. DOI 10.5194/amt-14-6005-2021. 2021
- T.C. Landi, **P. Bonasoni**, M. Brunetti, J. Campbell, J. Marquis, P. Di Girolamo, S. Lolli. Aerosol direct radiative effects over highly-polluted areas in Europe and Mediterranean: a ten-years analysis (2007-2016). *Remote Sens.* 13(15), 2933; <https://doi.org/10.3390/rs13152933>. 2021.
- Trisolino, P.; di Sarra, A.; Sferlazzo, D.; Piacentino, S.; Monteleone, F.; Di Iorio, T.; Apadula, F.; Heltai, D.; Lanza, A.; Vocino, A.; Caracciolo di Torchiareolo, L.; **Bonasoni, P.**; Calzolari, F.; Busetto, M.; Cristofanelli, P. Application of a Common Methodology to Select in Situ CO₂ Observations Representative of the Atmospheric Background to an Italian Collaborative Network in Atmosphere (Wash. D.C.). 10.3390/atmos12020246. 2021.
- Cristofanelli P.; Gutierrez I.; Adame J.A.; **Bonasoni P.**; Busetto M.; Calzolari F.; Putero D.; Roccato F. Interannual and seasonal variability of NO_x observed at the Mt. Cimone GAW/WMO global station (2165 m a.s.l., Italy) in *Atmospheric environment*. 10.1016/j.atmosenv.2021.118245. 2021.
- Kumar P.; Kuttippurath J.; Von Der Gathen P.; Petropavlovskikh I.; Johnson B.; McClure-Begley A.; Cristofanelli P.; **Bonasoni P.**; Barlasina M.E.; Sanchez R. The Increasing Surface Ozone and

Tropospheric Ozone in Antarctica and Their Possible Drivers in Environmental science & technology. 10.1021/acs.est.0c08491. 2021.

- P. Cristofanelli, J. Arduini, F. Serva, F. Calzolari, **P. Bonasoni**, M. Busetto, M. Maione, M. Sprenger, P. Trisolino and D. Putero. Negative ozone anomalies at a high mountain site in northern Italy during 2020: a possible role of COVID-19 lockdowns? in Environmental research letters. 10.1088/1748-9326/ac0b6a. 2021.
- A. Donato, T. Lo Feudo, A. Marinoni, C.R. Calidonna, D. Contini, **P. Bonasoni**. Long-term observations of aerosol optical properties at three GAW regional sites in the Central Mediterranean. <https://doi.org/10.1016/j.atmosres.2020.104976>. Atmospheric Research, Volume 241, 2020.
- Cristofanelli, P.; Fierli, F.; Graziosi, F.; Steinbacher, M.; Couret, C.; Calzolari, F.; Roccato, F.; Landi, T.C.; Putero, D.; **Bonasoni, P.** Decadal O₃ 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 in Elementa, 10.1525/elementa.00042, 2020
- C. Perrino, S. Gilardoni, T. Landi, A. Abita, I. Ferrara, S. Oliverio, M. Busetto, F. Calzolari, M. Catrambone, P. Cristofanelli, S. Dalla Torre, G. Esposito, M. Giusto, S. Mosca, S. Pareti, E. Rantica, T. Sargolini, G. Tranchida and **P. Bonasoni**. Air Quality Characterization at Three Industrial Areas in Southern Italy. Front. Environ. Sci. <https://doi.org/10.3389/fenvs.2019.00196>, 2020.
- K. Moore, P. Cristofanelli, **P. Bonasoni**, J. Semple. Was an avalanche swarm responsible for the devastation at Mount Everest Base Camp during the April 2015 Nepal Earthquake? High Altitude Medicine & Biology. HAM-2019_0069.R1. 2020.
- E. Brattich J. A. G. Orza P. Cristofanelli, **P. Bonasoni**, A. Marinoni, L. Tositti. Advection pathways at the Mt. Cimone WMO-GAW station: Seasonality, trends, and influence on atmospheric composition <https://doi.org/10.1016/j.atmosenv.2020.117513>. Atmospheric Environment. Volume 234, 2020.
- L. Naitza, P. Cristofanelli, A. Marinoni, F. Calzolari, F. Roccato, M. Busetto, D. Sferlazzo, E. Aruffo, P. Di Carlo, M. Bencardino, F. D'Amore, F. Sprovieri, N. Pirrone, F. Dallo, J. Gabrieli, M. Vardè, G. Resci, C. Barbante, P. Bonasoni, D. Putero. Increasing the maturity of measurements of essential climate variables (ECVs) at Italian atmospheric WMO/GAW observatories by implementing automated data elaboration chains. Computer and Geosciences. Volume 137, 104432, 2020.
- P. Cristofanelli, J. Arduini, F. Calzolari, U. Giostra, **P. Bonasoni** and M. Maione: First Evidences of Methyl Chloride (CH₃ Cl) Transport from the Northern Italy Boundary Layer during Summer 2017. Atmosphere, 11, 238; doi:10.3390/atmos11030238, 2020.
- E. Aruffo, P. Di Carlo, P. Cristofanelli and **P. Bonasoni**: Neural Network Model Analysis for Investigation of NO_x Origin in a High Mountain Site. Atmosphere, 11, 173; doi:10.3390/atmos11020173, 2020.
- K. Mansour, S. Decesari, M. Bellacicco, S. Marullo, R. Santoleri, **P. Bonasoni**, M. C. Facchini, J. Ovadnevaite, D. Ceburnis, C. O'Dowd, M. Rinaldi. Particulate methanesulfonic acid over the central Mediterranean Sea: Source region identification and relationship with phytoplankton activity. Atmospheric Research. Volume 237, 104837. <https://doi.org/10.1016/j.atmosres.2019.104837>. 2020.
- K. Sellegri, C. Rose, A. Marinoni, A. Lupi, A. Wiedensohler, M. Andrade, **P. Bonasoni**, P. Laj. New Particle Formation: A Review of Ground-Based Observations at Mountain Research Stations. Atmosphere, 10, 493; doi: 10.3390/atmos10090493, 2019.
- M. Rinaldi, A. Nicosia, G. Santachiara, M. Piazza, M. Paglione, S. Gilardoni, S. Sandrini, P. Cristofanelli, A. Marinoni, **P. Bonasoni**, M. C. Facchini, F. Belosi. Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site. Atmospheric Research 219, 57–64, 2019.
- L. Pratali, A. Marinoni, A. Cogo, K. Ujka, S. Gilardoni, E. Bernardi, **P. Bonasoni**, R. M. Bruno, L. Bastiani, E. Vuillermoz, P. Sdringola, S. Fuzzi. Indoor air pollution exposure effects on lung and

cardiovascular health in the High Himalayas, Nepal: An observational study. *European Journal of Internal Medicine* 61, 81–87, 2019.

- P. Cristofanelli, M. Busetto, E. Ronchi, P. Miatto, A. Marinoni, F. Calzolari, **P. Bonasoni**, L.A. Tagliafico. New “Smart” Systems for Atmospheric Aerosol and Reactive Gas Sampling in Ambient Air. *Sensors*, 18, 3602; doi:10.3390/s18113602, 2018.
- K. Singh Mahata, M. Rupakheti, A. Kumar Panday, P. Bhardwaj, M. Naja, A. Singh, A. Mues, P. Cristofanelli, D. Pudasainee, **P. Bonasoni**, M.G. Lawrence. Observation and analysis of spatiotemporal characteristics of surface ozone and carbon monoxide at multiple sites in the Kathmandu Valley, Nepal. *Atmospheric Chemistry and Physics*, Volume 18, Number 19, p.14113-14132, 2018.
- A. Donato, T. Lo Feudo, A. Marinoni, A. Dinoi, E. Avolio, E. Merico, C.R. Calidonna, D. Contini and **P. Bonasoni**. Characterization of In Situ Aerosol Optical Properties at Three Observatories in the Central Mediterranean. *Atmosphere* 9(10), 369; <https://doi.org/10.3390/atmos9100369>, 2018.
- M. Pandolfi, L. Alados-Arboledas, A. Alastuey, Marcos Andrade, B. Artiñano, J. Backman, U. Baltensperger, **P. Bonasoni**, N. Bukowiecki, M. Collaud Coen, S. Conil, Esther Coz, V. Crenn, V. Dudoitis, M. Ealo, K. Eleftheriadis, O. F., Prodromos Fefatzis, M. Fiebig, H. Flentje, P. Ginot, M. Gysel, B. Henzing, A. Hoffer, A. Holubova Smejkalova, I. Kalapov, N. Kalivitis, G. Kouvarakis, A. Kristensson, M. Kulmala, H. Lihavainen, C. Lunder, K. Luoma, H. Lyamani, A. Marinoni, N. Mihalopoulos, M. Moerman, J. Nicolas, C. O'Dowd, T. Petäjä, J.-E. Petit, J. M. Pichon, N. Prokopciuk, J.P. Putaud, S. Rodríguez, J. Sciare, a, K. Sellegri, E. Swietlicki, G. Titos, T. Tuch, P. Tunved, V. Ulevicius, A. Vaishya, M. Vana, A. Virkkula, S. Vratolis, E. Weingartner, A. Wiedensohler and P. Laj. A European aerosol phenomenology-6: Scattering properties of atmospheric aerosol particles from 28 ACTRIS sites, *Atmos. Chem. Phys.*, 18, 7877-7911, 2018, <https://doi.org/10.5194/acp-18-7877-2018>.
- D. Cesari, E. Merico, A. Dinoi, A. Marinoni, **P. Bonasoni**, D. Contini. Seasonal variability of carbonaceous aerosols in an urban background area in Southern Italy. *Atmospheric Research* 200, 97-108, 2018.
- D. Putero, A. Marinoni, **P. Bonasoni**, F. Calzolari, M. Rupakheti, P. Cristofanelli. 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. *Aerosol and Air Quality Research*, 18: 623–635. doi: 10.4209/aaqr.2017.04.0138, 2018.
- F. Sun, Y. Mab, Z. Hu, M. Li, G. Tartari, F. Salerno, T. Gerken, **P. Bonasoni**, P. Cristofanelli, and E. Vuillermoz, Mechanism of daytime strong winds on the northern slopes of himalayas, near mount everest: Observation and simulation. *Journal of Applied Meteorology and Climatology*, 57(2), 255–272, 2018.
- D. Cesari, G. E. De Benedetto, **P. Bonasoni**, M. Busetto, A. Dinoi, E. Merico, D. Chirizzi, P. Cristofanelli, A. Donato, F. M. Grasso, A. Marinoni, A. Pennetta, D. Contini. Seasonal variability of PM_{2.5} and PM₁₀ composition and sources in an urban background site in Southern Italy. *Science of The Total Environment*. 612, 202-213, 2018.
- Cristofanelli P., Putero D., **Bonasoni P.**, Busetto M., Calzolari F., Camporeale G., Grigioni P., Lupi A., Petkov B., Traversi R., Udristi R., Vitale V. Analysis of multi-year near-surface ozone observations at the WMO/GAW "Concordia" station (75 degrees 06 ' S, 123 degrees 20 ' E, 3280 m a.s.l. - Antarctica) *Atmospheric environment*. Volume 177, March 2018, Pages 54-63, 2018.
- M. Rinaldi, G. Santachiara, A. Nicosia, M. Piazza, S. Decesari, S. Gilardoni, M. Paglione, P. Cristofanelli, A. Marinoni, **P. Bonasoni**, F. Belosi. Atmospheric Ice Nucleating Particle measurements at the high mountain observatory Mt. Cimone (2165 m a.s.l., Italy). *Atmospheric Environment*. 171, 173-180, 2017.
- Schultz MG, Schröder S, Lyapina O, Cooper O, Galbally I, Petropavlovskikh I, **Bonasoni P.** et al.. Tropospheric Ozone Assessment Report: Database and Metrics Data of Global Surface Ozone Observations. *Elem Sci Anth*. 2017; 5:58. DOI: <http://doi.org/10.1525/elementa.244>. 2017.

- Cristofanelli P.; Busetto M.; Calzolari F.; Ammoscato I.; Gulli D.; Dinoi A.; Calidonna C.R.; Contini D.; Sferlazzo D.; Di Iorio T.; Piacentino S.; Marinoni A.; Maione M.; **Bonasoni P.** (2017). Investigation of reactive gases and methane variability in the coastal boundary layer of the central Mediterranean basin. *Elem Sci Anth.* 2017; 5:12. DOI: <http://doi.org/10.1525/elementa.216>. 2017.
- Adelaide Dinoi, Daniela Cesari, Angela Marinoni, **Paolo Bonasoni**, Angelo Riccio, Elena Chianese, Giuseppina Tirimberio, Attilio Naccarato, Francesca Sprovieri, Virginia Andreoli, Sacha Moretti, Daniel Gulli, Claudia R. Calidonna, Ivano Ammoscato, Daniele Contini. Inter-Comparison of Carbon Content in PM_{2.5} and PM₁₀ Collected at Five Measurement Sites in Southern Italy. *Atmosphere*, 8 (12), 243; doi:10.3390/atmos8120243. 2017.
- Abeli T, Guasconi DB, Mondoni A, Dondi D, Bentivoglio A, Buttafavi A, Cristofanelli P, **Bonasoni P.** Acute and chronic ozone exposure temporarily affects seed germination in alpine plants. *Plant Biosystems*, 151, 304-315, 2017.
- Moore, G.W.K.; Cristofanelli, P.; **Bonasoni, P.**; Verza, G.P.; Semple, J.L. Automatic weather station observations of the april 2014 mount everest avalanche. *Arctic Antarctic and Alpine Research*, 49, 321-330, 2017.
- Brattich, E.; Orza, J.A.G.; Cristofanelli, P.; **Bonasoni, P.**; Tositti, L. Influence of stratospheric air masses on radiotracers and ozone over the central mediterranean. *Journal of Geophysical Research-Atmospheres* 122, 7164-7182, 2017.
- Putero, D.; Cristofanelli, P.; Sprenger, M.; Skerlak, B.; Tositti, L.; **Bonasoni, P.** Steflux, a tool for investigating stratospheric intrusions: Application to two wmo/gaw global stations. *Atmospheric Chemistry and Physics*, 16, 14203-14217, 2016.
- Semple John L., Moore G.W. Kent, Koutrakis Petros, Wolfson Jack M., Cristofanelli Paolo, and **Bonasoni Paolo**. High Concentrations of Ozone Air Pollution on Mount Everest: Health Implications for Sherpa Communities and Mountaineers. *High Altitude Medicine & Biology*. DOI: 10.1089/ham.2016.0042. 2016.
- Graziosi F, Arduini J, **Bonasoni P**, Furlani F, Giostra U, Manning AJ, McCulloch A, Simmonds PG, Reimann S, Vollmer MK et al.. 2016. Emissions of carbon tetrachloride from Europe. *Atmos. Chem. Phys.*, 16, 12849–12859, 2016
- Landi, T.C.; Stortini, M.; Bonafe, G.; Minguzzi, E.; Cristofanelli, P.; Rinaldi, M.; Gilardoni, S.; Decesari, S.; Ricciardelli, I.; Morigillo, A., GP Gobbi and **P. Bonasoni**. A comprehensive ctm assessment over an highly polluted area. Springer Int Publishing Ag: Cham, p 483-488, 2016.
- E. D. Sofen, D. Bowdalo, M. J. Evans, F. Apadula, P. **Bonasoni**, M. Cupeiro, R. Ellul, I. E. Galbally, R. Girzdiene, S. Luppó, M. Mimouni, A. C. Nahas, M. Saliba, and K. Tørseth. Gridded global surface ozone metrics for atmospheric chemistry model evaluation. *Earth Syst. Sci. Data*, 8, 41-59, 2016.
- Duchi R, Cristofanelli P, Landi TC, Arduini J, Bonafe' U, **Bonasoni P.** et al. 2016. Long-term (2002–2012) investigation of Saharan dust transport events at Mt. Cimone GAW global station, Italy (2165 m a.s.l.). *Elem Sci Anth* 4: 000085. doi: 10.12952/journal.elementa.000085 2016.
- Cristofanelli P, Landi TC, Calzolari F, Duchi R, Marinoni A, Rinaldi M, **Bonasoni P.** 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.) . *Atmospheric Environment*. 141, Pages 139–152, 2016.
- Rosa Claudia Torcasio, Stefano Federico, Claudia Roberta Calidonna, Elenio Avolio, Oxana Drofa, Tony Christian Landi, Piero Malguzzi, Andrea Buzzi, and Paolo **Bonasoni**. Three-model ensemble wind prediction in southern Italy. *Annales Geophysicae*, 34, 347–356, 2016.
- Elena N. Kirillova, Angela Marinoni, Paolo **Bonasoni**, Elisa Vuillermoz, Maria Cristina Facchini, Sandro Fuzzi, Stefano Decesari. Light absorption properties of brown carbon in the high Himalayas. *JGR-A Volume* 121, Issue 16. Pages 9621–9639. 2016.
- Putero, D.; Cristofanelli, P.; Marinoni, A.; Adhikary, B.; Duchi, R.; Shrestha, S.D.; Verza, G.P.; Landi, T.C.; Calzolari, F.; Busetto, M., **P. Bonasoni**. Seasonal variation of ozone and black carbon observed

at Paknajol, an urban site in the Kathmandu valley, Nepal. *Atmospheric Chemistry and Physics*, 15, 13957-13971, 2015

- Rinaldi M, Gilardoni S, Paglione M, Sandrini S, Fuzzi S, Massoli P, **Bonasoni P**, Cristofanelli P, Marinoni A, Poluzzi V et al. 2015. Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign. *Atmos. Chem. Phys.*, 15, 11327-11340, 2015.
- Brattich E, Riccio A, Tositti L, Cristofanelli P, **Bonasoni P**. An outstanding Saharan dust event at Mt. Cimone (2165 m a.s.l., Italy) in March 2004. *Atmospheric Environment* Volume 113, Pages 223–235, 2015.
- H.-W. Jacobi, S. Lim, M. Ménégoz, P. Ginot, P. Laj, **P. Bonasoni**, P. Stocchi, A. Marinoni and Y. Arnaud. Black carbon in snow in the upper Himalayan Khumbu Valley, Nepal: observations and modeling of the impact on snow albedo, melting, and radiative forcing. *Cryosphere* 9, 1685-1699, 2015.
- Graziosi, F.; Arduini, J.; Furlani, F.; Giostra, U.; Kuijpers, L.J.M.; Montzka, S.A.; Miller, B.R.; O'Doherty, S.J.; Stohl, A.; **Bonasoni, P.**, et al. European emissions of hfc-22 based on eleven years of high frequency atmospheric measurements and a bayesian inversion method. *Atmospheric Environment* 2015, 112, 196-207.
- Simone Orsenigo, Thomas Abeli, Graziano Rossi, Paolo **Bonasoni**, Cristian Pasquaretta, Maurizia Gandini, Andrea Mondoni. Effects of Autumn and Spring Heat Waves on Seed Germination of High Mountain Plants. *Plos One* 10 (7): e0133626. doi:10.1371/journal.pone.0133626. 2015.
- Cristofanelli, P., H.-E. Scheel, M. Steinbacher, M. Saliba, F. Azzopardi, R. Ellul, M. Fröhlich, L. Tositti, E. Brattich, M. Maione, F. Calzolari, R. Duchi, T.C. Landi, A. Marinoni, **P. Bonasoni**, "Long-term surface ozone variability at Mt. Cimone WMO/GAW global station (2165 m a.s.l., Italy)", *Atmospheric Environment*, vol. 101, pp. 23-33, 2015.
- Vuillermoz E., Senese A., Diolaiuti G, Smiraglia C, Cristofanelli P., Marinoni A., G.P. Verza and **Bonasoni P**. The Case Study of the Changri Nup Glacier (Nepal, Himalaya) to Understand Atmospheric Dynamics and Ongoing Cryosphere Variations. *Engineering Geology for Society and Territory*. Vol.1 2015.10.1007/978-3-319-09300-0_14, pp 73-76. 2015.
- Putero D., Cristofanelli P., Laj P., Marinoni A, Villani P., Broquet A., Alborghetti M., Calzolari F, Duchi R, Landi TC, Verza GP, Vuillermoz E and **Bonasoni P**. New atmospheric composition observations in the Karakorum region: influence of local emissions and large-scale circulation during a summer field campaign. *Atmospheric Environment*. DOI 10.1016/j.atmosenv.2014.07.063. 2014.
- Sandrini, S., Giulianelli, L., Decesari, S., Fuzzi, S., Cristofanelli, P., Marinoni, A., **Bonasoni, P.**, Chiari, M., Calzolari F., Canepari, S., Perrino, C., Facchini, M.C. In situ physical and chemical characterisation of the Eyjafjallajökull aerosol plume in the free troposphere over Italy. *Atmospheric chemistry and physics*. 10.5194/acp-14-1075. 2014.
- Duchi, R.; Cristofanelli, P.; Marinoni, A.; Bourcier, L.; Laj, P.; Calzolari, F.; Adhikary, B.; Verza, G.P.; Vuillermoz, E.; **Bonasoni, P**. Synoptic-scale dust transport events in the southern himalaya. *Aeolian Research*, 13, 51-57, 2014.
- Sandrini, S.; Fuzzi, S.; Piazzalunga, A.; Prati, P.; **Bonasoni, P.**; Cavalli, F.; Bove, M.C.; Calvello, M.; Cappelletti, D.; Colombi, C., et al. Spatial and seasonal variability of carbonaceous aerosol across Italy. *Atmospheric Environment*, 99, 587-598, 2014.
- Locci, F.; Melis, M.T.; Dessi, F.; Stocchi, P.; Akinde, M.O.; Bones, V.; **Bonasoni, P.**; Vuillermoz, E. Implementation of a webgis service platform for high mountain climate research: The share geonetwork project. *Geoscience Data Journal*, 1, 140-157, 2014.
- P. Ginot, M. Dumont, S. Lim, N. Patris, J.-D. Taupin, P. Wagnon, A. Gilbert, Y. Arnaud, A. Marinoni, **P. Bonasoni**, and P. Laj. A 10 year record of black carbon and dust from a Mera Peak ice core (Nepal): variability and potential impact on melting of Himalayan glaciers. *The Cryosphere*, 8, 1479-1496, doi:10.5194/tc-8, 1479-2014. 2014
- M. Maione, F. Graziosi, J. Arduini, F. Furlani, U. Giostra, D. R. Blake, **P. Bonasoni**, X. Fang, S. A. Montzka, S. J. O'Doherty, S. Reimann, A. Stohl, and M. K. Vollmer. Estimates of European emissions of methyl

chloroform using a Bayesian inversion method, *Atmos. Chem. Phys.*, 14, 9755–9770, 2014. doi:10.5194/acp-14-9755-2014.

- C. Carbone, S. Decesari, M. Paglione, L. Giulianelli, M. Rinaldi, A. Marinoni, P. Cristofanelli, A. Didonato, **P. Bonasoni**, S. Fuzzi, M. C. Facchini. 3-year chemical composition of free tropospheric PM₁ at the Mt. Cimone GAW global station - South Europe - 2165 m a.s.l. *Atmospheric environment*. 10.1016/j.atmosenv. 2014.01.048. 2014.
- P. Cristofanelli, D. Putero, B. Adhikary, T.C. Landi, A. Marinoni, R. Duchi, F. Calzolari, P. Laj, P. Stocchi, G. Verza, E. Vuillermoz, S. Kang, J. Ming and **P. Bonasoni**. Transport of short-lived climate forcers/pollutants (SLCF/P) to the Himalayas during the South Asian summer monsoon onset. *Environ. Res. Lett.* 9. 084005. doi:10.1088/1748-9326/9/8/084005. 2014.
- D. Putero, T. C. Landi, P. Cristofanelli¹, A. Marinoni, P. Laj, R. Duchi, B. Adhikary, F. Calzolari, E. Vuillermoz, and **P. Bonasoni**. Influence of open vegetation fires on black carbon and ozone variability in the southern Himalayas (NCO-P, 5079 m a.s.l.). *Environmental Pollution*. 184, 597-604.10.1016/j.envpol.2013.09.035. 2014.
- P. Cristofanelli, P. Di Carlo, A. D'Altorio, C. Dari Salisburgo, P. Tuccella, F. Biancofiore, P. Stocchi, G. P. Verza, T.C.Landi, A.Marinoni, F. Calzolari, R. Duchi, and **P. Bonasoni**. Analysis of Summer Ozone Observations at a High Mountain Site in Central Italy (Campo Imperatore, 2388 m a.s.l.). *Pure and applied geophysics* 10.1007/s00024-012-0630-1. 2013.
- Tositti L, Riccio A, Sandrini S, Brattich E, Baldacci D, Parmeggiani S, Cristofanelli P, **Bonasoni P**. Short-term climatology of PM₁₀ at a high altitude background station in southern Europe. *Atmospheric Environment*, Volume 65, Pages 142–152 2013. 2013.
- Marinoni, P. Cristofanelli, P. Laj, R. Duchi, D. Putero, F. Calzolari, T. C. Landi, E. Vuillermoz, M. Maione, **P. Bonasoni**. High black carbon and ozone concentrations during pollution transport in the Himalayas: Five years of continuous observations at NCO-P global GAW station. in *Journal of Environmental Sciences* 2010, 22(9) 1357-1363. 2013.
- Maione M, Giostra U, Arduini J, Furlani F, Graziosi F, Lo Vullo E, **Bonasoni P**. Ten years of continuous observations of stratospheric ozone depleting gases at Monte Cimone (Italy)-comments on the effectiveness of the Montreal Protocol from a regional perspective. *Sci. Total. Environ.* 155(64). 2013.
- Cristofanelli P, Fierli F, Marinoni A, Calzolari F, Duchi R, Burkhardt J, Stohl A, Maione M, Arduini J, **Bonasoni P**. 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). *Atmos. Chem. Phys.*, 10.5194/acp-13-15, 2013.
- T.J. Yasunari, Q.Tan, K.-M. Lau, P. **Bonasoni**, A. Marinoni, P.Laj, M.Mûnûgoz, T.Takemura, M.Chin. Estimated range of black carbon dry deposition and the related snow albedo reduction over Himalayan glaciers during dry pre-monsoon periods. *Atmospheric Environment* 78, 259-267, 2013.
- P. **Bonasoni**, P. Cristofanelli, A. Marinoni, E. Vuillermoz, B. Adhikary. Atmospheric Pollution in the Hindu Kush–Himalaya Region. *Mountain Research and Development*, 32(4):468-479. DOI: <http://dx.doi.org/10.1659/MRD-JOURNAL-D-12-00066.1>. 2012.
- Zauli-Sajani S, **P. Bonasoni**, Cristofanelli P, Marinoni A, Lauriola P. Only coarse particles from the Sahara? *Epidemiology*. DOI: 10.1097/EDE.0b013e318258c23f. 2012.
- Bracci, A.; Cristofanelli, P.; Sprenger, M.; Bonafe, U.; Calzolari, F.; Duchi, R.; Laj, P.; Marinoni, A.; Roccato, F.; Vuillermoz, E. and **P. Bonasoni**. Transport of stratospheric air masses to the nepal climate observatory-pyramid (himalaya; 5079 m msl): A synoptic-scale investigation. *Journal of Applied Meteorology and Climatology* 51, 1489-1507, 2012.
- K.Moore, J.Semple, P.Cristofanelli, **P. Bonasoni** and P.Stocchi. Environmental conditions at the South Col of Mount Everest and their impact on hypoxia and hypothermia experienced by mountaineers. *Extreme Physiology & Medicine*. 2012 1:2. doi: 10.1186/2046-7648-1-2. 2012.
- E. Andrews, J.A. Ogren, P. **Bonasoni**, A. Marinoni, E. Cuevas, S. Rodriguez, J.Y. Sun, D.A. Jaffe, E.V. Fischer, U. Baltensperger, E. Weingartner, et al. Climatology of aerosol radiative properties in the

free troposphere Climatology of aerosol radiative properties in the free troposphere, *Atmospheric Research*, Volume 102, Issue 4, 365-393. 2011.

- Cristofanelli, P.; Calzolari, F.; Bonafe, U.; Lanconelli, C.; Lupi, A.; Busetto, M.; Vitale, V.; Colombo, T.; **Bonasoni, P.** Five-year analysis of background carbon dioxide and ozone variations during summer seasons at the mario zucchelli station (antarctica). *Tellus Series B-Chemical and Physical Meteorology*, 63, 831-842, 2011.
- Reddington, C.L.; Carslaw, K.S.; Spracklen, D.V.; Frontoso, M.G.; Collins, L.; Merikanto, J.; Minikin, A.; Hamburger, T.; Coe, H.; Kulmala, M., A. Marinoni, **P. Bonasoni**, R. Duchi et al. Primary versus secondary contributions to particle number concentrations in the european boundary layer. *Atmospheric Chemistry and Physics*, 11, 12007-12036, 2011.
- Lentini, G.; Cristofanelli, P.; Duchi, R.; Marinoni, A.; Verza, G.; Vuillermoz, E.; Toffolon, R.; **Bonasoni, P.** Mount rwenzori (4750 m asl, uganda): Meteorological characterization and air-mass transport analysis. *Geografia Fisica E Dinamica Quaternaria*, 34, 183-193, 2011.
- Maione, M.; Giostra, U.; Arduini, J.; Furlani, F.; **Bonasoni, P.**; Cristofanelli, P.; Laj, P.; Vuillermoz, E. Three-year observations of halocarbons at the nepal climate observatory at pyramid (nco-p, 5079 m a.S.L.) on the himalayan range. *Atmospheric Chemistry and Physics*, 11, 3431-3441, 2011.
- Sajani ZS, Miglio R, **Bonasoni P**, Cristofanelli P, Marinoni A, Sartini C, Goldoni CA, Girolamo DG, Lauriola P. Saharan dust and daily mortality in Emilia-Romagna (Italy). *Occupational and Environmental Medicine*, 68, 446-451. DOI: 10.1136/oem.2010.058156. 2011.
- P. **Bonasoni**, P. Laj, A. Marinoni, M. Sprenger, F. Angelini, J. Arduini, U. Bonafè, F. Calzolari, T. Colombo, S. Decesari, C. Di Biagio, A. G. di Sarra, et al.. *Atmospheric Brown Clouds in the Himalayas: first two years of continuous observations at the Nepal Climate Observatory-Pyramid (5079 m)*. *Atmos. Chem. Phys.*, 10, 7515-7531, 2010.
- S. T. J. Yasunari, P. **Bonasoni**, P. Laj, K. Fujita, E. Vuillermoz, A. Marinoni, P. Cristofanelli, R. Duchi, G. Tartari, and K.-M. Lau. Estimated impact of black carbon deposition during pre-monsoon season from Nepal Climate Observatory – Pyramid data and snow albedo changes over Himalayan glaciers. *Atmos. Chem. Phys.*, 10, 6603-6615, 2010.
- P. Cristofanelli, A. Bracci, M. Sprenger, A. Marinoni, U. Bonafè, F. Calzolari, R. Duchi, P. Laj, J.M. Pichon, F. Roccato, H. Venzac, E. Vuillermoz, and P. **Bonasoni**. Tropospheric ozone variations at the Nepal Climate Observatory-Pyramid (Himalayas, 5079 m a.s.l.) and influence of deep stratospheric intrusion events. *Atmos. Chem. Phys.*, 10, 6537-6549, 2010.
- J.Ming, C.Xiao, J. Sun, S. Kang, P. **Bonasoni**. Carbonaceous particles in the atmosphere and precipitation of the Nam Co region, central Tibet. *J. Environ. Sci.-CHINA*, 22(11), 1748-1756.2010
- S. Marcq, P. Laj, J. C. Roger, P. Villani, K. Sellegri, P. **Bonasoni**, A. Marinoni, P. Cristofanelli, G. P. Verza, and M. Bergin. 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.). *Atmos. Chem. Phys.*, 10, 5859-5872, 2010.
- Decesari, M. C. Facchini, C. Carbone, L. Giulianelli, M. Rinaldi, E. Finessi, S. Fuzzi, A. Marinoni, P. Cristofanelli, R. Duchi, P. **Bonasoni**, E. Vuillermoz, J. Cozic, J. L. Jaffrezo, and P. Laj. Chemical composition of PM10 and PM1 at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.). *Atmos. Chem. Phys.*, 10, 4583-4596, 2010.
- A.Marinoni, P. Cristofanelli, P. Laj, R. Duchi, F. Calzolari, S. Decesari, K. Sellegri, E. Vuillermoz, G.P.Verza, P. Villani, and P. **Bonasoni**. Aerosol mass and black carbon concentrations, a two year record at NCO-P (5079 m, Southern Himalayas). *Atmos.Chem.Phys.*, 10,8551-8562, 2010
- Petkov, Boyan; Tomasi, Claudio; Vitale, Vito; di Sarra, Alcide; **Bonasoni, Paolo**; Lanconelli, Christian; Benedetti, Elena; Sferlazzo, Damiano; Diémoz, Henri; Agnesod, Giovanni; Santaguida, Riccardo. Ground-based observations of solar radiation at three Italian sites, during the eclipse of 29 March, 2006: Signs of the environment impact on incoming global irradiance. *Atmospheric Research*, v. 96, iss. 1, p. 131-140.

- G. P. Gobbi, F. Angelini, **P. Bonasoni**, G. P. Verza, A. Marinoni, and F. Barnaba. Sunphotometry of the 2006–2007 aerosol optical/radiative properties at the Himalayan Nepal Climate Observatory – Pyramid (5079 m a.s.l.). *Atmos. Chem. Phys. Discuss.*, 10, 1193-1220, 2010.
- K. Sellegri, P. Laj, H. Venzac, J. Boulon, D. Picard, P. Villani, **P. Bonasoni**, A. Marinoni, P. Cristofanelli, and E. Vuillermoz 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 Atmos. Chem. Phys.*, 10, 10679-10690, 2010.
- Cristofanelli P., A. Marinoni, J. Arduini, P. Bonafè, T. Colombo, S. Decesari, F. Calzolari, R. Duchi, M.C. Facchini, F. Fierli, E. Finessi, M. Maione, M. Chiari, G. Calzolari, P. Messina, E. Orlandi, F. Roccato and **P. Bonasoni**. 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 *Atmos. Chem. Phys.*, 9, 14. 4603-4619, 2009
- Laj P, **Bonasoni P.**, Roger JC., Sellegri K., Venzac H., Villani P., Calzolari F., Cristofanelli P., Marinoni A., Vuillermoz E. Aerosol radiative forcing estimated from in situ measurements at the NCO-P station (5100m, Nepal) *GEOCHIMICA ET COSMOCHIMICA ACTA*, 73, 13, A715-A715. 2009.
- Cristofanelli P., **P. Bonasoni**, U. BONAFA', F. CALZOLARI, R. DUCHI, A. MARINONI, F.ROCCATO, E.VUILLERMOZ and M. SPRENGER. Influence of lower stratosphere/upper troposphere transport events on surface ozone at the Everest-Pyramid GAW Station (Nepal): first year of analysis *INTERNATIONAL JOURNAL OF REMOTE SENSING* Volume: 30 Issue: 15-16 Pages: 4083-4097, 2009
- Cristofanelli P., F. Calzolari, U. Bonafè, R. Duchi, A. Marinoni, F. Roccato, L. Tositti, **P. Bonasoni**. Stratospheric intrusion index (SI2) from baseline measurement data. *Theoretical and Applied Climatology*, 97, 3-4, 317-325. 2009
- Cristofanelli P., **Bonasoni P.** Background ozone in the southern Europe and Mediterranean area: Influence of the transport processes *ENVIRONMENTAL POLLUTION* Volume: 157 Issue: 5 Pages: 1399-1406 Published: 2009.
- Venzac H., K. Sellegri, P. Laj, P.Villani, **P.Bonasoni**, A.Marinoni, P.Cristofanelli, F. Calzolari, S. Fuzzi, S.Decesari, M.C.Facchini, E.Vuillermoz, G.P.Verza. High frequency new particle formation in the Himalayas *PNAS - PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* Volume: 105 Issue: 41 Pages: 15666-15671 Published: 2008
- Cristofanelli P., **P. Bonasoni**, F. Calzolari, U. BONAFA', C. LANCONELLI, A. LUPI, G. TRIVELLONE, V. VITALE and B. PETKOV Analysis of near-surface ozone variations in Terra Nova Bay, Antarctica *ANTARCTIC SCIENCE* Volume: 20 Issue: 4 Pages: 415-421 Published: 2008
- **Bonasoni, P.**; P. Laj, U. Bonafè, F. Calzolari, P. Cristofanelli, S. Decesari, L.Emblico, MC. Facchini, S. Fuzzi, GP. Gobbi, A. Marinoni, F. Roccato, JM. Pichon, K. Sellegri, H. Venzac, P. Villani, J. Arduini, M. Maione, A. Petzold, M. Sprenger, G. Tartari, GP. Verza and E. Vuillermoz. The ABC-Pyramid Atmospheric Research Observatory in Himalaya for aerosol, ozone and halocarbon measurements. *SCIENCE OF THE TOTAL ENVIRONMENT* Volume: 391 Issue: 2-3 Pages: 252-261 Published: 2008
- Marinoni, A.; Cristofanelli, P.; Calzolari, F.; Roccato, F.; Bonafè, U.; **Bonasoni, P.** Continuous measurements of aerosol physical parameters at the Mt. Cimone GAW Station (2165 m asl, Italy) Continuous measurements of aerosol physical parameters at the Mt. Cimone GAW Station (2165 m asl, Italy). *SCIENCE OF THE TOTAL ENVIRONMENT* Volume: 391 Issue: 2-3 Pages: 241-251. Published: 2008
- Colombo T., V. Pelino, S. Vergari, P. Cristofanelli, **P. Bonasoni**. Study of temperature and precipitation variations in Italy based on surface instrumental observations *GLOBAL AND PLANETARY CHANGE* Volume: 57 Issue: 3-4 Pages: 308-318 Published: 2007
- Cristofanelli P., **P. Bonasoni**, G. Carboni, F. Calzolari, L. Casarola, S. Zauli Sajani, R. Santaguida. Anomalous high ozone concentrations recorded at a high mountain station in Italy in summer 2003 *ATMOSPHERIC ENVIRONMENT* Volume: 41 Pages: 1383-1394 Published: 2007

- Lee H. N., L. Tositti, X. D. Zheng, **P. Bonasoni**. Analyses and comparisons of variations of Be-7, Pb-210, and Be-7/Pb-210 with ozone observations at two Global Atmosphere Watch stations from high mountains JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES Volume: 112 Issue: D5 Article Number: D05303 Published: MAR 8 2007
- Marengo F., **Bonasoni P.**, Calzolari F., Ceriani M., Chiari M., Cristofanelli P., D'Alessandro A., Fermo P., Lucarelli F., Mazzei F., Nava S., Piazzalunga A., Prati P., Valli G., and R. Vecchi. Characterization of atmospheric aerosols at Monte Cimone, Italy, during summer 2004: Source apportionment and transport mechanisms JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES Volume: 111 Issue: D24 Article Number: D24202 Published: DEC 16 2006
- Cristofanelli, P., **P. Bonasoni**, L. Tositti, U. Bonafè, F. Calzolari, F. Evangelisti, S. Sandrini, and A. Stohl. A 6-year analysis of stratospheric intrusions and their influence on ozone at Mt. Cimone (2165 m above sea level) JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES Volume: 111 Issue: D13 Article Number: D03306 Published: FEB 15 2006
- Campana, M., Li, Y., Staehelin, J., Prévôt, A.S.H., **Bonasoni, P.**, Loetscher H.P., and Peter, Th.. The influence of south foehn on the ozone mixing ratios at the high alpine site Arosa ATMOSPHERIC ENVIRONMENT Volume: 39 Issue: 16 Pages: 2945-2955 Published: MAY 2005.
- Beine H. J., A. Amoroso, G. Esposito, R. Sparapani, A. Ianniello, T. Georgiadis, M. Nardino, **P. Bonasoni**, P. Cristofanelli, and F. Dominè. Deposition of atmospheric nitrous acid on alkaline snow surfaces GEOPHYSICAL RESEARCH LETTERS Volume: 32 Issue: 10 Article Number: L10808 Published: MAY 20 2005
- Petritoli, A; **Bonasoni, P**; Giovanelli, G, et al. First comparison between ground-based and satellite-borne measurements of tropospheric nitrogen dioxide in the Po basin. JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES Volume: 109 Issue: D15 Article Number: D15307 Published: AUG 7 2004
- **Bonasoni, P**; Cristofanelli, P; Calzolari, F, et al. Aerosol-ozone correlations during dust transport episodes ATMOSPHERIC CHEMISTRY AND PHYSICS Volume: 4 Pages: 1201-1215 Published: AUG 3 2004
- Fischer, H; Kormann, R; Klupfel, T, **Bonasoni, P**, et al. Ozone production and trace gas correlations during the June 2000 MINATROC intensive measurement campaign at Mt. Cimone ATMOSPHERIC CHEMISTRY AND PHYSICS Volume: 3 Pages: 725-738 Published: JUN 16 2003
- Stohl, A; **Bonasoni, P**; Cristofanelli, P, et al. Stratosphere-troposphere exchange: A review, and what we have learned from STACCATO JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES Volume: 108 Issue: D12 Article Number: 8516 Published: MAY 10 2003
- Cristofanelli, P; **Bonasoni, P**; Collins, W, et al. Stratosphere-to-troposphere transport: A model and method evaluation JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES Volume: 108 Issue: D12 Article Number: 8525 Published: MAR 13 2003
- Y. Balkanski, S. E. Bauer, R. van Dingenen, **P. Bonasoni**, M. Schulz, H. Fischer, G. P. Gobbi, M. Hanke, D. Hauglustaine, J. P. Putaud, A. Stohl, and F. Raes The Mt Cimone, Italy, free tropospheric campaign: principal characteristics of the gaseous and aerosol composition from European pollution, Mediterranean influences and during African dust events. ACPD Atmospheric chemistry and physics discussion ISSN: 1680-7375, DOI: 10.5194/acpd-3-1753-2003.
- Petritoli, A; Giovanelli, G; Kostadinov, I, **Bonasoni, P**; et al. Tropospheric and stratospheric NO₂ amount deduced by slant column measurements at Mt. Cimone Station. Advances in Space Research. Volume: 29 Issue: 11 Pages: 1691-1695 Published: 2002
- Maione, M; Mangani, F; Lattanzi, L, **Bonasoni, P**; et al. Measurements of chlorofluorocarbons and their replacement compounds at Monte Cimone: Results obtained after eighteen months of observations ANNALI DI CHIMICA Volume: 92 Issue: 4 Pages: 443-449 Published: 2002
- **Bonasoni, P**; Evangelisti, F; Bonafe, U, et al. Stratospheric ozone intrusion episodes recorded at Mt. Cimone during the VOTALP project: case studies ATMOSPHERIC ENVIRONMENT Volume: 34 Issue: 9 Pages: 1355-1365 Published: 2000

- **Bonasoni, P;** Stohl, A; Cristofanelli, P, et al. Background ozone variations at Mt. Cimone Station ATMOSPHERIC ENVIRONMENT Volume: 34 Issue: 29-30 Pages: 5183-5189 Published: 2000
- Colombo, T; Santaguida, R; Capasso, A, **Bonasoni, P;** et al. Biospheric influence on carbon dioxide measurements in Italy ATMOSPHERIC ENVIRONMENT Volume: 34 Issue: 29-30 Pages: 4963-4969 Published: 2000
- Stohl, A; Spichtinger-Rakowsky, N; **Bonasoni, P,** et al. The influence of stratospheric intrusions on alpine ozone concentrations ATMOSPHERIC ENVIRONMENT Volume: 34 Issue: 9 Pages: 1323-1354 Published: 2000
- Lenaz, R; Giovanelli, G; Ori, C, **Bonasoni, P,** et al. Ship-board report on atmospheric CO₂ concentrations recorded on continuous from Mediterranean Sea to Antarctica NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA C-GEOPHYSICS AND SPACE PHYSICS Volume: 23 Issue: 5 Pages: 507-514 Published: SEP-OCT 2000
- **Bonasoni, P;** Evangelisti, F; Bonafe, U, et al. Stratosphere-troposphere exchanges: case studies recorded at Mt. Cimone during VOTALP project PHYSICS AND CHEMISTRY OF THE EARTH PART C-SOLAR-TERRESTIAL AND PLANETARY SCIENCE Volume: 24 Issue: 5 Pages: 443-446 Published: 1999
- **Bonasoni, P.;** Evangelisti, F., Giovanelli, Giorgio, et al. Mt. Cimone observatory: Baseline station for the measurement of gaseous substances and radioactive tracers in the atmosphere Journal of Environmental Pathology Toxicology and Oncology Volume: 16 Issue: 2-3 Pages: 239-244 Published: 1997
- Bettoli, MG; **Bonasoni, P;** Calzolari, F, Bonasoni, P et al. Determination of atmospheric radionuclides at Mt. Cimone observatory ANNALI DI CHIMICA Volume: 87 Issue: 11-12 Pages: 765-770 Published: 1997
- Evangelisti, F; **Bonasoni, P;** Giovanelli, G Intercomparison of UV/visible spectrometers for measurements of stratospheric NO₂ for the network for the detection of stratospheric change - Comment JOURNAL OF GEOPHYSICAL RESEARCH-ATMOS. Volume: 102 Issue: D19 Pages: 23583-23585 Published: Oct 20 1997
- **Bonasoni, P;** Calzolari, F; Colombo, T, et al. Continuous CO and H₂ measurements at Mt Cimone (Italy): Preliminary results ATMOSPHERIC ENVIRONMENT Volume: 31 Issue: 7 Pages: 959-967 Published: APR 1997.
- Hofmann, D; **Bonasoni, P;** Demaziere, M, et al. Intercomparison of UV Visible Spectrometers for Measurements of Stratospheric NO₂ for the Network for the Detection of Stratospheric Change JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES Volume: 100 Issue: D8 Pages: 16765-16791 Published: AUG 20 1995
- Fortezza, F; Georgiadis, T; Alberti, L, **Bonasoni, P,** et al. A Numerical-Simulation of the Transport of Surface Ozone Along a Mediterranean Coastal Area NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA C-GEOPHYSICS AND SPACE PHYSICS Volume: 18 Issue: 4 Pages: 403-410 Published: JUL-AUG 1995
- Evangelisti, F; Baroncelli, A; **Bonasoni, P,** et al. Differential Optical-Absorption Spectrometer for Measurement of Tropospheric Pollutants APPLIED OPTICS Volume: 34 Issue: 15 Pages: 2737-2744 Published: MAY 20 1995
- Fortezza, F; Strocchi, V; Giovanelli, G, **Bonasoni, P,** et al. Transport of Photochemical Oxidants Along the Northwestern Adriatic Coast ATMOSPHERIC ENVIRONMENT PART A-GENERAL TOPICS Volume: 27 Issue: 15 Pages: 2393-2402 Published: OCT 1993
- Fortezza, F; Strocchi, V; **Bonasoni, P,** et al. Time Space Model of Summer Ozone distribution around Ravenna JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES Volume: 98 Issue: D6 Pages: 10615-10620 Published: JUN 20 1993
- Georgiadis, T; Strocchi, V; Fortezza, F; **Bonasoni, P,** et al. Removal of Sulfur-Dioxide and Sulfates from the Atmospheric Surface -Layer During Frost Formation WATER AIR AND SOIL POLLUTION Volume: 66 Issue: 3-4 Pages: 267-276 Published: FEB 1993

- Georgiadis, T; Giovanelli, G; **Bonasoni, P.** Ozone Countergradients Over Wheat. NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA C-GEOPHYSICS AND SPACE PHYSICS Volume: 15 Issue: 1 Pages: 115-117 Published: JAN-FEB 1992
 - Giovanelli, G; **Bonasoni, P;** GUERRINI, A, et al. Measurements of Climatic parameters and Ground Level Ozone at Terra Nova Bay in Antarctica. NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA C-GEOPHYSICS AND SPACE PHYSICS Volume: 14 Issue: 1 Pages: 1-13 Published: JAN-FEB 1991.
 - Anfossi, D; Cassandro, C; Giraud, C, Giovanelli, G; **Bonasoni, P.** et al. Experimental-Study of Transalpine Transport of Trace Effluents - A Comparison with Synoptic Trajectories of Air-Flow. NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA C-GEOPHYSICS AND SPACE PHYSICS Volume: 11 Issue: 5-6 Pages: 489-526 Published: SEP-DEC 1988.
 - Giovanelli, G; **Bonasoni, P;** Loglio, G, et al. Evidence of anionic-Surfactant Enrichment in Marine Aerosol MARINE POLLUTION BULLETIN Volume: 19 Issue: 6 Pages: 274-277 Published: JUN 1988.
-
- Cristofanelli, P., Brattich, E., Decesari, S., Landi, T.C., Maione, M., Putero, D., Tositti, L., **Bonasoni, P.** High-Mountain Atmospheric Research The Italian Mt. Cimone WMO/GAW Global Station (2165 m a.s.l.). SpringerBriefs in Meteorology. VII, 135. Springer International Publishing. DOI 10.1007/978-3-319-61127-3. 2018.
 - S.Fuzzi and **P.Bonasoni.** The Atmospheric Brown Cloud in the Himalayas. Fate of Mountain Glaciers in the Anthropocene Pontifical Academy of Sciences, Scripta Varia 118, 2013. www.pas.va/content/dam/accademia/pdf/sv118/sv118-fuzzi-bonasoni.pdf.
 - Ramanathan V., M. Agrawal, M. Auffhammer, H. Akimoto, **P. Bonasoni**, G. Carmichael, L. Emberson, Y. Feng, S. Fuzzi, M. lyngararasan, A. Jayaraman, M. Lawrence, T. Nakajima, T. Panwar, M.V. Ramana, J. Vincent, S.-C. Yoon, Y.-H. Zhang and A. Zhu. Atmospheric Brown Clouds - Regional Climate Change and Agriculture Impacts. First Assessment Report. Contribution of ABC Science Team and Agriculture Impact Study Group. Atmospheric Brown Clouds Project. The United Nations Environmental Program. pp.3-122, 2008.
 - **Bonasoni P.,** P. Laj, U. Bonafè, F. Calzolari, P. Cristofanelli, A. Marinoni, F. Roccato, M.C. Facchini, S. Fuzzi, G. P. Gobbi, J.-M. Pichon, H. Venzac, K. Sellegri, P. Villani, M. Maione, J. Arduini, A. Petzold, M. Sprenger, G.P. Verza and E. Vuillermoz. The ABC-Pyramid: a scientific laboratory at 5079 m a.s.l. for the study of atmospheric composition change and climate. In: Mountains Witnesses of Global Change; Developments in Earth Surface Processes, Vol. 10, Elsevier, 2007.
 - Gobbi G. P., F. Angelini, F. Barnaba and **P. Bonasoni.** The Ev-K2-CNR Pyramid and the AERONET network (Himalayan atmospheric brown cloud characterisation via sunphotometer observations). Chapter 11 - Developments in Earth Surface Processes, Volume 10; Mountains, Witnesses of Global Changes - Research in the Himalaya and Karakoram, edited by R. Baudo, G. Tartari and E. Vuillermoz, 2006.