

Antonio Donateo

via com.le Cerni, 7
73020, Carpignano Salentino (LE)
Telephone: +39.0832.422.417
Mobile: +39.328.61.25.294
E-mail: a.donateo@isac.cnr.it
Nationality: Italian
Date of Birth: 16/07/1974

Web: <http://www.isac.cnr.it/en/users/antonio-donateo>
ORCID: orcid.org/0000-0002-9214-1067
Scopus ID: 57042520100

Position: Research Scientist at Institute of Atmospheric Sciences and Climate (ISAC)
National Research Council (CNR)

EDUCATION

January 2005

Ph.D in Environmental Sciences - University of Urbino

Main Subject: Turbulent vertical fluxes of fine particulate (PM_{2.5}) and gas in surface boundary layer

April 2000

Master Degree in Physics - University of Lecce

Main Subject: Quantum efficiency and characteristics of electron beam generated from niobium by superficial and volumetric photoemission

SHORT COURSES

Short Term Mobility

19 June – 9 July 2011

Main Subject: Aerosol size distribution and vertical turbulent fluxes measured with different instruments: an inter comparison study

IRSN (Institut de Radioprotection et Surete Nucleaire) - Cherbourg-Octeville (France).

Short Term Mobility

10 October – 24 November 2007

Main Subject: Measurements of tracer concentration and turbulent fluxes in a small scale model of a street canyon

University of Surrey – Department of Fluids and Systems

Enflo (Environmental Flow Research Centre) – Prof. A.G. Robins

International Stage

24 April – 26 May 2001

Main subject: study of instruments for meteorological and climate measurement

University of Ioannina (Greece) - Department of Physics

Meteorology and Climatology Laboratory - Prof. B.D. Katsoulis.

RELEVANT SKILLS

Languages

Mother Language: Italian

- PET (Primary English Test) certification – Cambridge University - 27/07/2014. Final mark: European Level B2.
- English Course at Centre of English Study in Dublin from 21/08/2006 to 08/09/2006
Final Mark: European Level Intermediate (B1)
- English Course for BULATS (Business Language Testing Service): level A1

IT Skills

- Data Management Software: Matlab, Labview, R, Excel
- Development Software: Fortran, Visual Basic, C++
- Server Scripting: PHP, MySql
- OS: Windows, Linux and MacOS
- Digital Graphic: Adobe PhotoShop, Gimp, 3D Studio Max
- Mechanical design CAD/CAM (SolidWorks, Autodesk Inventor)

MAIN RESEARCH INTERESTS

Research activity in the Institute of Atmosphere and Climate Science (ISAC - CNR) is on micrometeorology and characterisation of composition of atmosphere with specific focus on atmospheric aerosol and its dynamics in the boundary-layer as well as in identification and characterisation of aerosol sources. Research work is focused, principally, on these topics:

- Study of vertical turbulent fluxes for fine and ultrafine particles (in number and mass), in atmospheric surface layer to investigate the dispersive characteristics of atmosphere, with a particular focus on emission, diffusion, transport and deposition processes.
- Study of the aerosols exchange processes (both in finest fraction, accumulation and coarse size ranges) between atmosphere and cryosphere to tackle future challenges in the dynamics of particles and nanoparticles in Polar Environment (Arctic).
- Investigation of atmospheric aerosol optical properties and their relation to other aerosol chemical-physical properties, as key factors to understanding their influence on the climate change and air quality.
- Observations from remote sensing, in particular using a DOAS (Differential Optical

Absorption Spectroscopy) to obtain a vertical profile of atmospheric gases concentration for climate change studies.

RESEARCH PROJECTS

2020-2022. A-PAW (Air Pollution in the Arctic Winter): an Italian contribution to the ALPACA field experiment. Programma di Ricerche in Artico (PRA). Role: Participant Scientist

2020-2021. ALFA (Aerosol Fluxes in Arctic). Artic field grant funded by RCN (Research Council of Norway). Role: Principal Investigator

2019-2024. Joint Research Center ENI CNR – Artico – Aldo Pontremoli. Role: WP Leader.

2019-2020. PAPER (Paper Analyser for Particulate Exposure Risk). POR Puglia FESR-FSE 2014-2020 - Asse prioritario 1 - Azione 1.6. Role: Participant Scientist

2017-2018. Smart Data Cloud. Italian Minister for the Economic Development (MISE). Role: Participant Scientist

2018-2019. ECOMOBILITY (ECOlogical supporting for traffic Management in cOastal areas By using an InteLLigenT sYstem). Interreg Italy-Croatia 2014-2018. Role: Participant Scientist. Member of the Steering Committee.

2017-2018. CITY TREE SCALER. EIT Climate-KIC. Green City Solutions has developed a patented solution, called “CityTree”, which features special moss cultures that intercept air pollutants in urban ambient air, contributing to both mitigate climate change and improve air quality. Role: Coordinator of Research Unit.

2015-2018. AIR SEA LAB: Climate Air Pollution Interaction in Coastal Environment. National Research council (CNR) Joint Lab Project. Role: Field Campaign Leader at Mace Head.

2014–2015. POSEIDON (Pollution Monitoring of Ship Emissions: an Integrated Approach for Harbours of the Adriatic Basin). European Territorial Cooperation MED 2007-2013. Role: Field Campaign Leader.

2012–2014. PROMETEOS (Prodotti, Metodologie e Tecnologie Originali e Sostenibili per la Diagnostica e la Conservazione dell’Edilizia Storica). P.O. PUGLIA FESR 2007-2013 Linea 1.2. Role: Participant Scientist.

2012–2015. PON I-AMICA (Infrastruttura di Alta Tecnologia per il Monitoraggio Integrato Climatico Ambientale). P.O.N. Ricerca e Competitività 2007-2013 – Asse I. Role: Field Campaign Leader.

2012–2014. CESAPO (Contribution of Emission Sources on the Air quality of the **PO**rt-cities in Greece and Italy). Interreg Greece-Italy 2007-2013. Role: Field Campaign Leader.

2012. Valutazione del contributo di inquinamento, da particolato atmosferico e gas, delle navi nell'area del porto turistico di Venezia. Convenzione di ricerca sperimentale tra ISAC-CNR ed IDPA-CNR, progetto finanziato dall'Autorità Portuale di Venezia. Role: Field Campaign Leader

2010–2013. ABLCLIMAT (Arctic and Antarctic: the influence of the **At**mospheric **B**oundary **L**ayer on **CL**IMATE). PNRA (Programma Nazionale Ricerche in Antartide), progetto n. A3.02/2009. Role: Participant Scientist.

2010–2012. A.I.Te.C.H. (**A**ppled **I**nnovation **T**echnologies for **D**iagnosis and **C**onservation of **B**uilt **H**eritage). POR Puglia FESR e FSE 2007–2013. Role: Participant Scientist.

2009. Valutazione del contributo di inquinamento, da particolato atmosferico e gas, delle navi nell'area del porto turistico di Venezia. Convenzione di ricerca sperimentale tra ISAC-CNR ed IDPA-CNR, project funded by Autorità Portuale di Venezia. Role: Field Campaign Leader.

2008-2009. MONITER (**M**onitoraggio degli **I**nceneritori nel **T**erritorio dell'**E**milia **R**omagna). Linea progettuale 2: Controllo della qualità dell'aria. Azione 8: Micrometeorologia e Profili di Concentrazione. Project funded by Environmental Agency Emilia-Romagna. Role: Coordinator of Research Unit.

2007. Misurazione dell'influenza del traffico portuale sulla qualità dell'aria per la città di Venezia: valutazione del flusso verticale turbolento di PM2.5 e di gas atmosferici. Convenzione di ricerca sperimentale tra ISAC-CNR ed IDPA-CNR. Role: Participant Scientist.

2006-2008. ERESIA (**E**nvironment **R**emote **S**ensing **I**nterregional **A**gency), Agenzia Interregionale per il Monitoraggio e la Salvaguardia Ambientale Satellitare. Interreg IIIA Italia-Grecia. Role: Participant Scientist.

2004-2006. Bilancio dei flussi di micro-inquinanti organici e inorganici all'interfaccia atmosfera-acqua della laguna di Venezia. Project funded by Consorzio per la Gestione del Centro di Coordinamento delle Attività di Ricerca inerenti il Sistema LAGunare di Venezia (CORILA). Role: Field Campaign Leader.

2004-2006. Antartide: caratterizzazione chimico-fisica dell'aerosol antartico e processi di rimozione. PNRA (Programma Nazionale Ricerche in Antartide), progetto n.6.7/2004. Role: Participant Scientist.

2004-2006. Sviluppo di un Sistema Integrato Modellistica Numerica – Strumentazione e Tecnologia Avanzate per lo Studio e le Previsioni del Trasporto e della Diffusione di

Inquinanti in Atmosfera. MIUR (Ministero dell'Università e della Ricerca). Role: Participant Scientist.

TEACHING AND SUPERVISOR

2022. Supervisor for a Master Thesis in Scienze e Tecnologie Ambientali. UniSalento. Candidate: Francesco Giangrande
Title: Analisi morfologica e classificazione delle zone climatiche locali: applicazione alla città di Bari.

2021. Supervisor for a Master Thesis in Scienze e Tecnologie Ambientali. UniSalento. Candidate: Raffaele Quaranta
Title: Caratterizzazione dell'isola di calore urbana nella città di Lecce.

2019-now. Supervisor for a Research Fellow. Candidate: dr. Gianluca Pappaccogli.
Title: Caratterizzazione chimico/fisica degli aerosol e studio dei processi di emissione, trasporto e rimozione tra Criosfera ed Atmosfera nella regione Artica.

2014-2016. Supervisor for a Ph.D. Thesis. Candidate: dr. Eva Merico.
Title: Assessment of air pollutants contribution of harbour activities in Venice and Brindisi areas. Dottorato in Scienze Ambientali - Università Ca Foscari di Venezia- XXIX ciclo.

2017. Supervisor for a Master Thesis in Ingegneria Energetica e Nucleare. Università degli Studi di Palermo.
Candidate: Gianmaria Amorelli.
Title: Messa a punto e validazione di un modello per la valutazione della velocità di deposizione secca su aree urbane e suburbane.

2012-2017. Supervisor for a scholarship. Candidate: dr. Eva Merico.
Title: Caratterizzazione sperimentale dell'impatto del traffico marittimo dell'inquinamento atmosferico delle città portuali.

INSTITUTIONAL RESPONSABILITIES

2016-2019. Elected Member of Institute Council (ISAC-CNR).

2018 - now. Scientific Responsible of the Research Agreement between ISAC-CNR and DEIM (University of Palermo)

2016 - now. Referent of Staff Training in ISAC

2014 - now. Scientific Responsible of the Urban Meteorological Station.

ASSOCIATIONS AND WORKING GROUP

2008 - now. Member of the Italian Aerosol Society (IAS)

2018 - Member of the Best Poster Award Commission for PM2018

2013 - now. Member of the Italian Physics Society (SIF).

2003-2004. Member of the task force of the Apulia Region for "Strategic Environmental Evaluation for Sustainable Development of the Puglia".

NATIONAL/INTERNATIONAL AWARDS

2012 - Best Communication Award - National Congress SIF (Italian Physics Society).

WORKSHOP AND CONFERENCE ORGANIZATION

2021 – Member of the Scientific Committee for the Workshop: Aerosol in Siti Montani, Falcade (BL), Italy, 9 September 2021.

2021 - Member of the Conference Committee of the 4th International Electronic Conference on Atmospheric Sciences (ECAS2021). 16-31 July 2021.

2013 - Member of the Organization Committee of the International Workshop on Characterization of atmospheric pollution in harbour areas, Lecce, Italia, 26 June 2013.

EDITORIAL ACTIVITY

Member of the Editorial Board for Journal Atmosphere (MDPI)

Member of the Editorial Board for Journal of Advances in Meteorology (Hindawi)

Guest Editor for a Special Issue for the Journal Atmosphere (MDPI). Title “Recent Advances in Air Pollution in Italy”

Reviewer for Scientific Journals:

- Nature NPJ – Climate and Atmospheric Science
- Atmosphere (MDPI)
- Atmospheric Research (Elsevier)
- International Journal of Environment and Pollution (InderScience)
- International Journal of Sustainable Transportation (Taylor & Francis)
- Environmental Science and Pollution Research (Springer)
- Environmental Science & Ecology (JSciMed)
- Measurement (Elsevier)
- Heliyon (Elsevier)
- Atmospheric Pollution Research (Elsevier)
- Transportation Research Part D: Transport and Environment (Elsevier)

PUBLICATIONS

Total publications: 56 (ISI-WoS)

H-Index: 22 (ISI-WoS)

Number of citation: 1533 (ISI-WoS)

Citing Articles: 1,099 (ISI-WoS)

1. Pettinari, P.; **Donateo, A.**; Papandrea, E.; Bortoli, D.; Pappaccogli, G.; Castelli, E. Analysis of NO₂ and O₃ Total Columns from DOAS Zenith-Sky Measurements in South Italy. *Remote Sens.* 2022, 14, 5541. <https://doi.org/10.3390/rs14215541>.
2. Buccolieri, R.; Esposito, A.; Pappaccogli, G.; Grulois, M.; **Donateo, A.**; Santiago, J.L.; Martilli, A.; Maffei, G.; Salizzoni, P. Local Climate Zones (LCZs) and Urban Morphological Parameters Using GIS: An Application to Italian Cities. *Environ. Sci. Proc.* 2022, 19, 15. <https://doi.org/10.3390/ecas2022-12795>.
3. Pappaccogli G., D.Famulari, **A.Donateo**. *Recursive digital filter versus linear detrending in turbulent fluxes evaluation by eddy covariance method*. *Atmospheric Environment* 285 (2022) 119237. <https://doi.org/10.1016/j.atmosenv.2022.119237>.
4. Villani M.G., F.Russo, M.Adani, A.Piersanti, L.Vitali, L.Ciancarella, G.Zanini, **A.Donateo**, M.Rinaldi, C.Carbone, S.Decesari, P.Saenger. *On the evaluation of the impact of a green infrastructure on air pollution PM₁₀ and NO_x concentrations in an urban environment*. *Atmosphere* 2021, 12, 839. <https://doi.org/10.3390/atmos12070839>.
5. **Donateo A.**, A.Dinoi, G.Pappaccogli. *Impact on ultrafine particles concentration and turbulent fluxes of SARS-CoV-2 lockdown in a suburban area in Italy*. *Atmosphere* 2021, 12, 407. <https://doi.org/10.3390/atmos12030407>.
6. **Donateo A.**, M.Rinaldi, M.Paglione, M.G. Villani, F.Russo, C.Carbone, N.Zanca, G.Pappaccogli, F.M.Grasso, M.Busetto, P.Sänger, L.Ciancarella, S.Decesari, 2021. *An evaluation of the performance of a green panel in improving air quality, the case study in a street canyon in Modena, Italy*. *Atmospheric Environment*, 247, 118189. <https://doi.org/10.1016/j.atmosenv.2021.118189>
7. **Donateo A.**, Villani M.G., Lo Feudo T., Chianese E., 2020. *Editorial: Recent Advances of Air Pollution Studies in Italy*. *Atmosphere*, 11, 1054. <https://doi.org/10.3390/atmos11101054>
8. Calidonna C.R., Avolio E., Ammoscato I., Gullì D., De Pino M., **Donateo A.**, Lo Feudo T. *Five years of dust episodes at Southern Italy GAW Regional Coastal Mediterranean Observatory: multisensor and modeling analysis*. *Atmosphere. Special Issue*. *Atmosphere* 2020, 11, 456. <https://doi.org/10.3390/atmos11050456>.
9. **Donateo A.**, Lo Feudo T., Marinoni A., Calidonna C.R., Contini D., Bonasoni P., 2020. *Long-term observations of aerosol optical properties at three GAW regional sites in the Central Mediterranean*. *Atmospheric Research*, 241. <https://doi.org/10.1016/j.atmosres.2020.104976>.
10. Marinoni A., S. Gilardoni, C.R. Calidonna, I. Ammoscato, D. Contini, **A. Donateo**, P. Cristofanelli, F. Calzolari, M. Busetto, P. Bonasoni 2019. *La rete osservativa CNR-ISAC per lo studio dell'inquinamento e del clima: l'importanza del monitoraggio di black carbon*. *Italian Journal of Occupational and Environmental Hygiene*, 10 (Issue 3), pp 138-143. <https://doi.org/10.36125/ijohy.v10i3.357>
11. **Donateo A.**, M. Conte, F.M. Grasso, D. Contini, 2019. *Seasonal and diurnal behaviour of size segregated particles fluxes in a suburban area*. *Atmospheric Environment*, 219. <https://doi.org/10.1016/j.atmosenv.2019.117052>.

12. M. Conte, E. Merico, D. Cesari, A. Dinoi, F.M. Grasso, **A. Donateo**, M.R. Guascito, D. Contini, 2020. *Long-term characterisation of African dust advection in Southern Italy: influence on fine and coarse particle concentrations, size distributions, and carbon content.* Atmospheric Research, 233. <https://doi.org/10.1016/j.atmosres.2019.104690>.
13. S. Trini Castelli, A. Bisignano, **A. Donateo**, T. Landi, P. Martano, P. Malguzzi, 2020 *Evaluation of the turbulence parameterisation in MOLOCH meteorological model.* Quarterly J. of Royal Meteorological Society, 146, 124-140. <https://doi.org/10.1002/qj.3661>.
14. M. Giardina, **A. Donateo**, P. Buffa, D. Contini, A. Cervone, C. Lombardo, F. Rocchi, 2019. *Atmospheric dry deposition processes on urban and suburban surfaces: modelling and validation works.* Atmospheric Environment, 214, 116857. <https://doi.org/10.1016/j.atmosenv.2019.116857>
15. **Donateo A.**, Lo Feudo T., Marinoni A., Dinoi A., Avolio E., Merico E., Calidonna C.R., Contini D., Bonasoni P., 2018. *Characterization of in situ aerosol optical properties at three observatories in the Central Mediterranean.* Atmosphere, 9, 369. <https://doi.org/10.3390/atmos9100369>
16. Conte M., V.Cagnazzo, **A. Donateo**, D.Cesari, F.M.Grasso, D.Contini, 2018. *A case study of municipal solid state waste impacts in South areas of Italy.* The Open Atmospheric Science Journal 12, pp. 1-13. <https://doi.org/10.2174/1874282301812010001>
17. Contini D., D.Chirizzi, M.R.Guascito, A.Dinoi, L.Giotta, **A. Donateo**, F.M.Grasso, D.Cesari, 2018. *Oxidative potential of PM_{2.5} and PM₁₀ in an urban background site in Lecce: influence of combustion sources and Saharan dust advection.* Italian Journal of Occupational and Environmental Hygiene 8(4), pp. 160-164.
18. Conte M., **A. Donateo**, D.Contini, 2018. *Characterisation of particle size distributions and corresponding size-segregated turbulent fluxes simultaneously with CO₂ exchange in an urban area.* Science of the Total Environment 622–623, pp. 1067–1078. <https://doi.org/10.1016/j.scitotenv.2017.12.040>
19. Cesari D., G.E. De Benedetto, P.Bonasoni, M.Busetto, A.Dinoi, E.Merico, D.Chirizzi, P.Cristofanelli, **A. Donateo**; F.M.Grasso, A.Marinoni, A.Pennetta, D.Contini 2018. *Seasonal variability of PM_{2.5} and PM₁₀ composition and sources in an urban background site in Southern Italy.* Science of Total Environment 612, pp. 202-213. <https://doi.org/https://doi.org/10.1016/j.scitotenv.2017.08.230>
20. Chirizzi D., D.Cesari, M.R. Guascito, A.Dinoi, L.Giotta, **A. Donateo**, D.Contini 2017. *Influence of Saharan Dust Outbreaks and carbon content on oxidative potential of water-soluble fractions of PM_{2.5} and PM₁₀.* Atmospheric Environment 163, pp. 1-8
21. **Donateo A.**, D.Cava, D.Contini 2017. *Performances of different detrending methods in turbulent fluxes estimations.* Boundary-Layer Meteorology 164 (1), pp.19-37
22. E. Merico, A.Gambaro, A.Argiriou, A.Alebic-Juretic, E.Barbaro, D.Cesari, L.Chasapidis, S.Dimopoulos, A.Dinoi, **A. Donateo**, C.Giannaros, E.Gregoris, A.Karagiannidis, A.G.Konstandopoulos, T.Ivošević, N.Liora, D.Melas, B.Mifka, I.Orlic, A.Poupkou, K.Sarovic, A.Tsakis, R.Giua, T.Pastore, A.Nocioni, D. Contini 2017. *Atmospheric impact of ship traffic in four Adriatic-Ionian port-cities: comparison and harmonization of different approaches.* Transportation Research Part D: Transport and Environment 50, pp. 431- 445.

23. Cesari D., A.**Donateo**, M.Conte, D.Contini. 2016. *Inter-comparison of source apportionment of PM10 using PMF and CMB in three sites nearby an industrial area in central Italy*. Atmospheric Research 182, pp. 282-293.
24. Merico E., A.**Donateo**, A.Gambaro, D.Cesari, E.Gregoris, E.Barbaro, A.Dinoi, G.Giovanelli, S.Masieri, D.Contini 2016. *Influence of in-port ships emissions to gaseous atmospheric pollutants and to particulate matter of different sizes in a Mediterranean harbour in Italy*. Atmospheric Environment 139, pp. 1-10.
25. Contini D., D.Cesari, M.Conte, A.**Donateo**, 2016. *Application of PMF and CMB receptor models for the evaluation of the contribution of a large coal-fired power plant to PM10 concentrations*. Science of Total Environment, 560-561, pp. 131-140.
26. Dinoi A., **Donateo** A., Belosi F., Conte M., Contini D., 2016. *Comparison of atmospheric particle concentration measurements using different optical detectors: potentiality and limits for air quality applications*. Measures. Measurement, 106, pp. 274-282.
27. Cesari D., A.**Donateo**, M. Conte, E. Merico, A. Giangreco, F. Giangreco, D. Contini, 2016. *An inter-comparison of PM2.5 at urban and urban background sites: chemical characterization and source apportionment*. Atmospheric Research 174-175, pp. 106-119.
28. Gregoris E., E.Barbaro, E.Morabito, G.Toscano, A.**Donateo**, D.Cesari, D.Contini, A.Gambaro, 2015. *Impact of maritime traffic on polycyclic aromatic hydrocarbons, metals and particulate matter in Venice*. Environmental Science and Pollution Research. DOI 10.1007/s11356-015-5811-x
29. Conte M., **Donateo** A., Dinoi A., Belosi F., Contini D., 2015. *Influence of nucleation events on number particles fluxes and size distributions in south-eastern Italy during summer season*. Atmosphere, 6, 942-959. <https://doi.org/10.3390/atmos6070942>.
30. Contini D., A. Gambaro, Donateo, Cescon P., Cesari D., Merico E., Belosi F., Citron M., 2015. *Inter-annual trend of the direct contribution of ship emissions to PM2.5 concentrations in Venice (Italy): efficiency of emissions mitigation strategies*. Atmospheric Environment, 102, 183-190.
31. Contini D., Cesari D., **Donateo** A., Chirizzi D., Belosi F, 2014. *Characterization of PM10 and PM2.5 and their metals content in different typologies of sites in south-eastern Italy*. Atmosphere, 5, 435-453. <https://doi.org/10.3390/atmos5020435>.
32. **Donateo** A. and Contini D., 2014. *Correlation of dry deposition velocity and friction velocity over different surfaces for PM2.5 and particle number concentrations*. Advanced Meteorology, vol.2014, Article ID 760393, 12 pages. <https://doi.org/10.1155/2014/760393>
33. **Donateo** A., Gregoris E., Gambaro A., Merico E., Giua R., Nocioni A., Contini D., 2014. *Contribution of harbour activities and ships traffic to PM2.5, particle number concentrations and PAHs in a port-city of the Mediterranean Sea (Italy)*. Environmental Science and Pollution Research, 21(15), pp. 9415-9429. <https://doi.org/10.1007/s11356-014-2849-0>.
34. Cava D., A.**Donateo**, D.Contini, 2014. *Combined stationarity index for the estimation of turbulent fluxes of scalars and particles in the atmospheric surface layer*. Agricultural and Forest Meteorology, 194, 88-103.
35. Gregoris E., E.Argiriadis, M.Vecchiato, S.Zambon, A.**Donateo**, D.Contini, R.Piazza, C.Barbante, A.Gambaro, 2014. *Gas-particle distributions, sources and health effects of Polycyclic Aromatic Hydrocarbons (PAHs), Polychlorinated Biphenyls (PCBs) and*

- Polychlorinated Naphthalenes (PCNs) in Venice aerosols*. Science of the Total Environment, 476-477, pp.393-405.
36. P.Paradisi, R.Cesari, **A.Donateo**, D.Contini, P.Allegrini, 2012. *Diffusion scaling in event driven random walks: an application to turbulence*. Report on Mathematical Physics, 60, pp. 205-220.
 37. **Donateo** A., D.Contini, F.Belosi, A.Gambaro, G.Santachiara, D.Cesari, F.Prodi, 2012. *Characterization of PM_{2.5} concentrations and turbulent fluxes on an island in the Venice lagoon using high temporal resolution measurements*. Meteorologische Zeitschrift, vol.21, 4, pp.385-398.
 38. P.Paradisi, R.Cesari, **A.Donateo**, D.Contini, P.Allegrini, 2012. *Scaling laws of diffusion and time intermittency generated by coherent structures in atmospheric turbulence*. Nonlinear Process Geophysics, 19, pp.113-126.
 39. F.Belosi, D.Contini, **A.Donateo**, G. Santachiara, F.Prodi, 2012. *Aerosol size distribution at Nansen Ice Sheet Antarctica*. Atmospheric Research, 107, pp.42-50.
 40. D.Contini, **A.Donateo**, C.Elefante, F.M.Grasso, 2012. *Analysis of particles and carbon dioxide concentrations and fluxes in an urban area: correlation with traffic rate and local micrometeorology*. Atmospheric Environment, 46, pp.25-35.
 41. D.Contini, **A.Donateo**, D.Cesari, A.G.Robins, 2011. *Comparison of plume rise models against water tank experimental data for neutral and stable crossflow*. Journal of Wind Engineering and Industrial Aerodynamics, 99, pp.539-553.
 42. D.Contini, **A.Donateo**, D.Cesari, F.Belosi, S.Francioso, 2010. *Individuation and characterization of local aerosol sources using high temporal resolution measurements*. Journal of Environmental Monitoring, 12, pp.1709-1721.
 43. D. Contini, **A.Donateo**, F. Belosi, F.M.Grasso. G. Santachiara, F.Prodi, 2010. *Deposition velocity of ultrafine particles measured with eddy-correlation method over Nansen Ice Sheet (Antarctica)*. Journal of Geophysical Research, 115, D16202.
 44. D. Contini, A. Gambaro, F. Belosi, S. De Pieri, W. Cairns, **A. Donateo**, E. Zanotto, M. Citron, 2011. *Direct influence of ship traffic on atmospheric PM_{2.5}, PM₁₀ and PAHs in Venice*. Journal of Environmental Management, 92, pp. 2119-2129.
 45. D. Contini, A. Genga, D. Cesari, M. Siciliano, **A. Donateo**, M.C. Bove, M.R. Guascito, 2010. *Characterization and source apportionment of PM₁₀ in a background site in Lecce*. Atmospheric Research, 95, pp. 40-54
 46. P. Paradisi, R. Cesari, D. Contini, **A. Donateo**, and L. Palatella, 2009. *Characterizing memory in atmospheric time series. An alternative approach based on renewal theory*. The European Physical Journal: Special Topics, 174, pp. 207-218.
 47. D.Contini, D.Cesari, **A.Donateo**, A.G.Robins, 2009. *Effects of Reynolds number on stack plume trajectories simulated with small scale models in a wind tunnel*. Journal of Wind Engineering and Industrial Aerodynamics, 97, pp. 468-474.
 48. D.Contini, D.Cava, P.Martano, **A.Donateo**, F.M.Grasso, 2009. *Comparison of indirect methods for the estimation of Boundary Layer Height over flat-terrain in a coastal site*. Meteorologische Zeitschrift, vol. 18, n.3, pp. 309-320.
 49. F.Prodi, F.Belosi, D.Contini, G.Santachiara, L. Di Matteo, A.Gambaro, **A.Donateo**, D. Cesari, 2009. *Aerosol fine fraction in the Venice lagoon: particle composition and sources*. Atmospheric Research, vol. 92, pp. 141-150.
 50. D.Cava, D.Contini, **A.Donateo**, P.Martano, 2008. *Analysis of short-term closure of the surface energy balance above short vegetation*. Agricultural and Forest Meteorology, vol. 148, pp. 82-93.

51. D.Cava, D.Contini, A.**Donateo**, F.Grasso, P.Martano, 2007. *A case study of short term closure of the surface energy balance*. Il Nuovo Cimento, vol.121 B, n.8, pp. 845-855.
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INTERESTS

Mountain Bike and Trekking
3D Digital Graphic

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Antonio Donateo