

Personal information	
First name(s) / Surname(s)	Francesca COSTABILE
Address(es)	CNR-ISAC Area della Ricerca di Roma, Tor Vergata, Via Fosso del Cavaliere 100, 00133 Rome, Italy
Telephone(s)	@Work: +39 06 4993 4288
E-mail	f.costabile@isac.cnr.it
Date of birth	05.Apr.1977
Webpage	http://www.isac.cnr.it/en/users/francesca-costabile

Resume

Expertise and science interests: Air Quality, atmospheric aerosol, and health effects. In particular, large interest in characterisation of ultrafine particles; combustion generated aerosol and urban areas; black Carbon and carbonaceous aerosol; relevant health effects from both toxicology and epidemiology point of view.

Education and training:

2004-2008: Ph.D. thesis at Tor Vergata university (Italy), and CNR IIA (Italy), and Tsinghua/Peking university (China): combustion generated ultrafine particles in the urban atmosphere (mechanical eng.).

2002-2004: fellowship at CNR IIA (Italy)

2000-2001: Study of environmental Chemistry at La Sapienza university (Italy) : Postgraduate degree.

1995-2000: Study of environmental eng. at La Sapienza university, Rome. Dec 2000: diploma/M. Degree passed cum laude

Work experience:

2002 – now: research scientist @ the Italian National Research Council (CNR)- permanent position since 2009.

2012-now: (contract) professor at the University of Rome, Tor Vergata, Physics Dept. - course: Atmospheric Chemodynamics.

2017-now: contracted by European Commission DG-MOVE as scientific expert - Investigation of the quality level of the air inside the cabin of large transport aeroplanes and its health implication.

2018-2024- National Academic Qualification as Associate Professor/ Area 02 – Physics/ Academic Discipline : 02/C1 - astronomy, astrophysics, Earth and planetary physics

Post doc and visiting:

2008: Post-doc and Visiting researcher at fT, Leipzig, Germany - subject: ultrafine aerosol particles in urban atmosphere.

2002-2007: Visiting researcher Tsinghua university and Peking university, Beijing, China – subject: urban air pollution in megacities.

2004:2007: Lecturer at the University of Rome Tor Vergata (Engineering departments) and Venice International University. Advisor of master and PhD students.

2002-2004: fellowship at CNR IIA (Italy)

2001-2002: consultant at Hewlett Packard (Italy)

Projects: Participated in more than 17 Intl projects.

-Chairperson, rapporteur and member of the Scientific committee of the EU-funded FACTS project (MOVE/B3/SER/2016-363/SI2.748114) – 2017/2020 (<https://www.facts.aero/index.php/the-project/scientific-committee>).

-P.I. of the CARE experiment (Carbonaceous Aerosol in Rome and Environs), Rome, February 2017 (<https://www.researchgate.net/project/CARBONACEOUS-AEROSOL-IN-ROME-AND-ENVIRONS-CARE>).

-Currently involved in (i) RHAPS (Redox-activity and Health-effects of Atmospheric Primary and Secondary aerosol), and (ii) Black Carbon in the atmosphere of Rome and its epidemiological study.

-P.I. of #8 projects under the Sino-Italian Cooperation Program for Environmental Protection (Beijing, Shanghai, Suzhou, China). Max Funding: “Air quality monitoring System – AQMS – phase I” [2 years/2.3 million euros] Suzhou, China.

- Member of the Steering Committee and beneficiary of the EU funded project DIAPASON : "Desert-dust impact on air quality through model-predictions and advanced sensors observations agreement - LIFE10 ENV/IT/391".

- Expert member of the EU CEN/TC 264/Working Group 32 on "Air quality - Determination of the particle number concentration".

Papers:

Citations 800 553

h-index 15 12

i10-index 19 15

Papers more than 34 peer reviewed articles - <https://scholar.google.it/citations?user=FZDJCzAAAAAJ&hl=en>.

Participated in several Intl scient. conferences. Editor for Atmosphere <http://www.mdpi.com/journal/atmosphere/>). Referee for Intl journals including Atmospheric Chemistry and Physics, Atmospheric Environment, Science of the total Environment, Environmental Monitoring and Assessment.

Language skills: Italian (mother tongue), English (fluent), French (fluent), German (beginner), Chinese (beginner).

SELECTED PUBLICATIONS

- i. **Costabile, F.**, Gualtieri, M., Canepari, S., Tranfo, G., Consales, C., Grollino, M.G., Paci, E., Petralia, E., Pigini, D., Simonetti, G.: Evidence of association between aerosol properties and in-vitro cellular oxidative response to PM₁, oxidative potential of PM_{2.5}, a biomarker of RNA oxidation, and its dependency on the combustion aerosol. In review (Ms. Ref. No.: ATMENV-D-19-00018)
- ii. Alas, H. D. C., Weinhold, K., **Costabile, F.**, Di Ianni, A., Müller, T., Pfeifer, S., Di Liberto, L., Turner, J. R., and Wiedensohler, A.: Methodology for High Quality Mobile Measurement with Focus on Black Carbon and Particle Mass Concentrations, *Atmos. Meas. Tech. Discuss.*, <https://doi.org/10.5194/amt-2019-66>, in review, 2019.
- iii. Tranfo, G., Paci, E., Carrieri, M., Marchetti, E., Sisto, R., Gherardi, M., **Costabile, F.** et al. Levels of urinary biomarkers of oxidative damage to DNA and RNA in different groups of workers compared to general population volunteers. Paper under submission for the International Journal of Environmental Research and Public Health (IJERPH), Special issue on Human 1015 Biomonitoring of Environmental and Occupational Exposures (data presented at OEDC 2019, <http://www.oecd2019.org>).
- iv. Gobbi, G.P., Barnaba F., Di Liberto L., Bolignano A., Lucarelli F., Nava S., Perrino C., Pietrodangelo A., Basart S., **Costabile F.**, et al. , An inclusive view of Saharan dust advections to Italy and the Central Mediterranean, *Atmospheric Environment*, Volume 201, p.242-256, 2019.
- v. Gualtieri, M., Grollino, M.G., Consales, C., **Costabile, F.**, Manigrasso, M., Avino, P., Aufderheide, M., Cordelli, E., Di Liberto, L., Petralia, E., Raschellà, G., Stracquadanio, M., Wiedensohler, A., Pacchierotti, F., Zanini, G.: Is it the time to study air pollution effects under environmental conditions? A case study to support the shift of in vitro toxicology from the bench to the field. *Chemosphere* 207, 552-564, 2018 ; doi: 10.1016/j.chemosphere.2018.05.130
- vi. Di Ianni, A., **Costabile, F.**, Barnaba, F., Di Liberto, L., Weinhold, K., Wiedensohler, A., Struckmeier, C., Drewnick, F., and Gobbi, G.: Black Carbon Aerosol in Rome (Italy): Inference of a Long-Term (2001–2017) Record and Related Trends from AERONET Sun-Photometry Data. *Atmosphere* 2018, 9(3), 81; doi:10.3390/atmos9030081
- vii. **Costabile, F.**, et al: First results of the "Carbonaceous aerosol in Rome and Environs (CARE)" experiment: beyond current standards for PM₁₀, *Atmosphere* 2017, 8, 249.
- viii. **Costabile, F.**, Gilardoni, S., Barnaba, F., Di Ianni, A., Di Liberto, L., Dionisi, D., Manigrasso, M., Paglione, M., Poluzzi, V., Rinaldi, M., Facchini, M. C., and Gobbi, G. P.: Characteristics of brown carbon in the urban Po Valley atmosphere, *Atmos. Chem. Phys.*, 17, 1–14, 2017.
- ix. Barnaba, F., Bolignano A., Di Liberto L., Morelli M., Lucarelli F., Nava S., Perrino C., Canepari S., Basart S., **Costabile F.**, et al., Desert dust contribution to PM₁₀ loads in Italy: Methods and recommendations addressing the relevant European Commission Guidelines in support to the Air Quality Directive 2008/50, *Atmospheric Environment*, Volume 161, p.288-305, 2017.
- x. Gilardoni, S., Massoli, P., Paglione, M., Giulianelli, L., Carbone, C., Rinaldi, M., Decesari, S., Sandrini, S., **Costabile, F.**, Gobbi, G.P., Pietrogrande, M.C., Visentin, M., Facchini, M.C., Fuzzi, S.: Direct observation of aqueous secondary organic aerosol from biomass burning emissions. *Proc. Natl. Acad. Sci.*, 113 (36), pp. 10013-10018, 2016.
- xi. Rizza, U., Barnaba, F., Miglietta, M. M., Gobbi, G. P., Mangia, C., Di Liberto, L., Dionisi, D., **Costabile, F.**, and Grasso, F.: WRF-Chem model simulations of a dust outbreak over the Central Mediterranean and comparison with multi-sensor desert dust observations, *Atmos. Chem. Phys. Discuss.*, doi:10.5194/acp-2016-627, in review, 2016.
- xii. **Costabile, F.**, Angelini, F., Barnaba, F., and Gobbi, G. P.: Partitioning of Black Carbon between ultrafine and fine particle modes in an urban airport vs. urban background environment. *Atmospheric Environment*, 102, 136–144, 2015, doi:10.1016/j.atmosenv.2014.11.064
- xiii. Brines, M., Dall'Osto, M., Beddows, D. C. S., Harrison, R. M., Gómez-Moreno, F., Núñez, L., Artíñano, B., **Costabile, F.**, Gobbi, G. P., Salimi, F., Morawska, L., Sioutas, C., and Querol, X.: Traffic and nucleation events as main sources of ultrafine particles in high-insolation developed world cities, *Atmos. Chem. Phys.*, 15, 5929-5945, doi:10.5194/acp-15-5929-2015, 2015..
- xiv. Liu, Z., Wang, Y., **Costabile, F.**, Amoroso, A., Zhao, C., Huey, L.G., Stickel, R., Liao, J., Zhu, T.: Evidence of aerosols as a media for rapid daytime HONO production over China. *Environmental Science and Technology*, 48 (24), pp. 14386-14391, 2014, 10.1021/es504163z.
- xv. Gobbi, G. P., Angelini, F., Barnaba, F., **Costabile, F.**, Baldasano, J. M., Basart, S., Sozzi, R., and Bolignano, A.: Changes in particulate matter physical properties during Saharan advections over Rome (Italy): a four-year study, 2001–2004, *Atmos. Chem. Phys.*, 13, 7395-7404, doi:10.5194/acp-13-7395-2013, 2013.
- xvi. **Costabile, F.**, Barnaba, F., Angelini, F., and Gobbi, G. P.: Identification of key aerosol populations through their size and composition resolved spectral scattering and absorption, *Atmos. Chem. Phys.*, 13, 2455-2470, doi:10.5194/acp-13-2455-2013, 2013.
- xvii. Liu, Z., Wang, Y., Gu, D., Zhao, C., Huey, L. G., Stickel, R., Liao, J., Shao, M., Zhu, T., Zeng, L., Amoroso, A., **Costabile, F.**, Chang, C.-C., and Liu, S.-C.: Summertime photochemistry during CAREBeijing-2007: ROx budgets and O₃ formation, *Atmos. Chem. Phys.*, 12, 7737-7752, doi:10.5194/acp-12-7737-2012, 2012.
- xviii. Zhang, Z., Wang, F., **Costabile, F.**, Allegrini, I., Liu, F., Hong, W. Interpretation of ground-level ozone episodes with atmospheric stability index measurement. *Environ Sci Pollut Res*, DOI 10.1007/s11356-012-0867-3, 2012
- xix. Liu, Z., Wang, Y., Gu, D., Zhao, C., Huey, L.G., Stickel, R., Liao, J., Shao, M., Zhu, T., Zeng, L., Amoroso, A., and **Costabile, F.** Evidence of Reactive Aromatics As a Major Source of Peroxy Acetyl Nitrate over China. *Environ. Sci. Technol.*, 2010, 44 (18), pp 7017–7022 DOI: 10.1021/es1007966

- xx. **Costabile, F., Amoroso, A., Wang, F.,** Sub- μ m particle size distributions in a suburban Mediterranean area. Aerosol populations and their possible relationship with HONO mixing ratios, *Atmospheric Environment* (2010), **Atm. Env** 44, 39, 5258-5268, doi:10.1016/j.atmosenv.2010.08.018).
- xxi. Wang, F., **Costabile, F., Li, H., Fang, D., Allegrini, I.,** Measurements of Ultrafine Particle Size Distribution near Rome. **Atmospheric Research** 98 (2010) 69–77.
- xxii. Wang, F., **Costabile, F., Liu, F., Hong, W., Fang, D., Allegrini, I.** Ambient BTX measurements in Suzhou, China. **Environ. Monit. Assess.**, 2010, DOI 10.1007/s10661-009-1088-1
- xxiii. **Costabile, F., Birmili, W., Klose, S., Tuch, T., Wehner, B., Wiedensohler, A., Franck, U., König, K., and Sonntag, A.:** Spatio-temporal variability and principal components of the particle number size distribution in an urban atmosphere, **Atmos. Chem. Phys.**, 9, 3163-3195, 2009.
- xxiv. Bai Xiaoping , Li Hong , Fang Dong ,Wang Fenjuan, F. **Costabile.** Application Research of Ensemble Kalman Filter in Air Pollution Numerical Prediction, *Huanjing Kexue/Environmental Science*, 29 (2), pp. 283-289. (2008)
- xxv. **Costabile, F., Allegrini, I.,** 2008. A new approach to link transport emissions and air quality: an intelligent transport system based on the control of traffic air pollution. **Environ Model Software**, 23 (3), 258-267, DOI 10.1016/J.envsoft.2007.03.001
- xxvi. **Costabile, F., Allegrini, I. ,** 2007. Measurements and analysis of nitrogen oxides and ozone in the yard and on the roof of a street-canyon in Suzhou. **Atmospheric Environment**, Vol 41(31) pp 6637- 6647 doi:10.1016/j.atmosenv.2007.04.018
- xxvii. **Costabile, F., Bertoni, G., Desantis, F., Wang, F., Hong, W., Liu, F., Allegrini, I.,** 2006. A preliminary assessment of major air pollutants in the city of Suzhou, China. **Atmospheric Environment** Volume 40, Issue 33, Pages 6380-6395

SELECTED PROJECTS

2019/2021: RHAPS (Redox-activity and Health-effects of Atmospheric Primary and Secondary aerosol)

2017/2019: Chairperson, rapporteur of the Scientific Committee of the EU funded FACTS project:
<https://www.facts.aero/index.php/the-project/scientific-committee> - MOVE/B3/SER/2016-363/SI2.748114

2017: P.I. of The Carbonaceous aerosol in Rome and Environs (CARE)" experiment -
<https://www.researchgate.net/project/CARBONACEOUS-AEROSOL-IN-ROME-AND-ENVIRONS-CARE>

2016-now: associate partner of ACTRIS2 IA - European Research Infrastructure for the observation of Aerosol, Clouds, and Trace gases – Integrating Activities - EU H2020 (2015-2018)

2015-2017 – Participant in **AirSeaLab** : Climate air pollution interaction in coastal environment. Funded by CNR.

2011-2015: Participant and Member of the Steering Committee of the project **DIAPASON** "Desert-dust impact on air quality through model-predictions and advanced sensors observations" – Under the EU LIFE+ programme, Grant agreement **LIFE10 ENV/IT/391**.

2008 – now: Expert and member of **CEN/TC 264/Working Group 32 "Air quality - Determination of the particle number concentration"** .

2008-2009: **Associate/responsible person:** project **EUSAAR** (European Supersite for Atmospheric Aerosol Research) – www.eusaar.net, Supported by the **European Commission under the 6th Framework Programme**, Contract number: RII3-CT-2006-026140)

2002-2004: **Project coordinator** of the **bilateral Sino-Italian “Air quality monitoring System – AQMS – phase I”** [2 years/2.3 million euros] Suzhou, **China**.

2003-2004: **Project coordinator** of the bilateral **Sino-Italian “Intelligent Transport System based on Traffic Air Pollution Control, ITS-TAP”** [1 year/500.000 euro] in Beijing, **China**

2004-2007 : **Project coordinator** of the **bilateral Sino-Italian “Air quality monitoring System - AQMS – phase II”** [3 years/2.3 millions euro] Suzhou, **China**

2004-2006: **Project coordinator** of the **bilateral Sino-Italian “Chemical Laboratory”** **Beijing, China**

2004-2007: **Project coordinator** of the **bilateral Sino-Italian “Olympic Village Monitoring”** **Beijing, China** [2 years/2 millions euros].

2005-2007: **Project coordinator** of the **bilateral Sino-Italian “Air Quality Monitoring System and Greenhouse Gas Emission Inventory”** Lanzhou [3 years/1.5 millions euros], **China**.

2005-2007: **Project coordinator** of the bilateral **Sino-Italian “Air Pollution Emission Monitoring-APEM”** **Shanghai** [2 years/1.167.000 euro], **China**.

2006 **Project planner** of the **bilateral Sino-Italian “Air Quality monitoring Improvement-AQMI”** **Urumqi, China**.

CURRICULUM VITAE	
Work experience	
Dates	2010 - now
Occupation or position held	Scientist/researcher
Main activities and responsibilities	Aerosol particles in the urban atmosphere
Name and address of employer	Consiglio Nazionale delle Ricerche – Institute for Atmospheric Science and Climate, Rome
Dates	2017 - now
Occupation or position held	Temporary Contract as Expert
Main activities and responsibilities	chairperson / rapporteur of the scientific Committee of the FACTS project
Name and address of employer	European Commission – DG MOVE
Dates	2012 - now
Occupation or position held	Contract professor
Main activities and responsibilities	Corso di Chemodinamica dell'Atmosfera (FIS/06 – 8 cfu)
Name and address of employer	University of Rome “Tor Vergata” . Laurea Magistrale in Fisica
Dates	2008
Occupation or position held	Visiting researcher
Main activities and responsibilities	Subject: Particle number size distribution in urban areas.
Name and address of employer	Leibniz Institute for Tropospheric Research (IfT), Leipzig, Germany .
Dates	Nov 2004 – Feb 2008
Occupation or position held	Guest lecturer and PhD student
Main activities and responsibilities	“Corso di Interazioni macchine e ambiente” anno accademico:2004/2005, 2005/2006, 2006/2007. Research work on a PhD thesis.
Name and address of employer	University of Rome “Tor Vergata” . Department of Mechanical Engineering.
Dates	2004 - 2008
Occupation or position held	Guest Lecturer
Main activities and responsibilities	Air quality in urban areas
Name and address of employer	Venice International University, Isola di San Servolo, Venice
Dates	2002 - 2010
Occupation or position held	Scientist / researcher
Main activities and responsibilities	Air pollution in urban areas: the case of Chinese megacities in the framework of the Sino-Italian Cooperation Program for Environmental Protection. (Work carried out in Beijing, Suzhou, Shanghai, Lanzhou.)
Name and address of employer	Consiglio Nazionale delle Ricerche – Institute for Atmospheric Pollution (IIA)
Dates	Mar 2001-Feb 2002
Occupation or position held	Junior consultant (permanent position)

Main activities and responsibilities	Broadband transmission technology. 3-month HP educational training in Data handling and transmission networks (Unix, HP-UX system and network admin, Windows NT, HP openview, Oracle PL/SQL), HP university, Bergamo, Italy
Name and address of employer	Hewlett-Packard Italia, Roma.

Education and training

Dates	Nov 2004 – Feb 08
Title of qualification awarded	Ph.D. (Doctoral degree)
Principal subjects/occupational skills covered	Energy and Environment. Spatial distribution of traffic-related pollutants from tailpipe-to-road-to-ambient: the case of ultrafine-particles.
Name and type of organisation providing education and training	Mechanical Engineering Department of the University of Rome “Tor Vergata”,

Dates	Sept 2001 – Jul 2002
Title of qualification awarded	Postgraduate degree
Principal subjects	Environmental Chemistry / Air pollution and environmental protection
Name and type of organisation providing education and training	Chemistry Department of the University of Rome “La Sapienza”, Italy

Dates	1995-2000
Title of qualification awarded	“ Laurea (vecchio ordinamento)”, Environmental Engineering (Ingegneria Ambiente e Territorio), 110/110 cum laude. “Specializzazione : chimica/fluidodinamica ”.
Principal subjects/occupational skills covered	Dynamics of the Atmosphere, pollutant chemistry. Title of the thesis : “Neural networks for air pollution forecast in an urban area”
Name and type of organisation providing education and training	University of Rome “La Sapienza”, Italy

Personal skills/competences

Mother tongue(s)	Italian				
Other language(s)	English, French, German (beginner), Chinese (beginner)				
Self-assessment					
European level (*)					
English	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
	B2	B2	B2	B2	B2
French	B1	B1	B1	B1	B1
	(*) Common European Framework of Reference for Languages				

Projects

Participation in 17 international research projects:

2017/2019 : Expert and chairperson of the scientific Committee of the EU funded project FACTS <https://www.facts.aero/index.php/the-project/scientific-committee>

2017: P.I. of The **Carbonaceous aerosol in Rome and Environs (CARE)"** experiment - <https://www.researchgate.net/project/CARBONACEOUS-AEROSOL-IN-ROME-AND-ENVIRONS-CARE>

2016-now: associate partner of ACTRIS2 IA - European Research Infrastructure for the observation of Aerosol, Clouds, and Trace gases – Integrating Activities - EU H2020 (2015-2018)

2015-2017 – Participant in **AirSEaLab** : Climate air pollution interaction in coastal environment. Funded by CNR.

2011-2015: Participant and Member of the Steering Committee of the project **DIAPASON** "Desert-dust impact on air quality through model-predictions and advanced sensors observations" – Under the EU LIFE+ programme, Grant agreement **LIFE10 ENV/IT/391**.

2008 – now: Expert and member of **CEN/TC 264/Working Group 32 "Air quality - Determination of the particle number concentration"** .

2015- (submitted): Participation in the Project “Training and Research in Atmospheric sciences through Cavity-Enhanced Spectroscopy”, **Horizon 2020**, Call: H2020-MSCA-ITN-2015.

2011- 2013: Progetto “Impatto dell’Inquinamento Ambientale prodotto dagli aeroporti sulla salute dei residenti”, Convenzione fra il dipartimento di Epidemiologia del Servizio Sanitario Regionale dell’azienda sanitaria locale Roma e l’ISAC-CNR.

2008-2009: **Associate/responsible person:** project **EUSAAR** (European Supersite for Atmospheric Aerosol Research) – www.eusaar.net, Supported by the **European Commission under the 6th Framework Programme**, Contract number: RII3-CT-2006-026140)

2007-2009: **Italian coordinator** of the research project between CNR-IIA and the National Institute of Meteorology and Hydrology of the **Bulgarian Academy of Science (BAN)** in the framework agreement of scientific collaboration between CNR and BAN.

2002-2004: **Project coordinator** of the **bilateral Sino-Italian “Air quality monitoring System – AQMS – phase I”** [2 years/2.3 million euros] Suzhou, **China**.

2003-2004: **Project coordinator** of the bilateral **Sino-Italian “Intelligent Transport System based on Traffic Air Pollution Control, ITS-TAP”** [1 year/500.000 euro] in Beijing, **China**

2004-2007 : **Project coordinator** of the **bilateral Sino-Italian “Air quality monitoring System - AQMS – phase II”** [3 years/2.3 millions euro] Suzhou, **China**

2004-2006: **Project coordinator** of the **bilateral Sino-Italian “Chemical Laboratory” Beijing, China**

2004-2007: **Project coordinator** of the **bilateral Sino-Italian “Olympic Village Monitoring” Beijing, China** [2 years/2 millions euros].

2005-2007: **Project coordinator** of the **bilateral Sino-Italian “Air Quality Monitoring System and Greenhouse Gas Emission Inventory”** Lanzhou [3 years/1.5 millions euros], China.

2005-2007: **Project coordinator** of the bilateral **Sino-Italian “Air Pollution Emission Monitoring-APEM”** Shanghai [2 years/1.167.000 euro], China.

2006 **Project planner** of the **bilateral Sino-Italian “Air Quality monitoring Improvement-AQMI”** Urumqi, China.

2006- 2009: **Advisor** of two PhD students from Tsinghua university, Beijing.

2007 **Coordinator** of the activities of CNR-IIA in the international research CAREBEIJING project led by the Peking University, Beijing, China.

LIST OF PUBLICATIONS

PEER REVIEWED PAPERS in journals/books

1. **Costabile** et al.: Evidence of association between aerosol properties and in-vitro cellular oxidative response to PM₁, oxidative potential of PM_{2.5}, a biomarker of RNA oxidation, and its dependency on the combustion aerosol. Paper under review (Ms. Ref. No.: ATMENV-D-19-00018)
2. Alas, H. D. C., Weinhold, K., **Costabile**, F., Di Ianni, A., Müller, T., Pfeifer, S., Di Liberto, L., Turner, J. R., and Wiedensohler, A.: Methodology for High Quality Mobile Measurement with Focus on Black Carbon and Particle Mass Concentrations, *Atmos. Meas. Tech. Discuss.*, <https://doi.org/10.5194/amt-2019-66>, in review, 2019.
3. Tranfo, G., Paci, E., Carrieri, M., Marchetti, E., Sisto, R., Gherardi, M., **Costabile**, F., Bauleo, L., Ancona, C., Pignini, D.: Levels of urinary biomarkers of oxidative damage to DNA and RNA in different groups of workers compared to general population volunteers. Paper under submission for the *International Journal of Environmental Research and Public Health (IJERPH)*, Special issue on Human 1015 Biomonitoring of Environmental and Occupational Exposures (data presented at OEDC 2019, <http://www.oecd2019.org>).
4. Gobbi, G.P., Barnaba F., Di Liberto L., Bolignano A., Lucarelli F., Nava S., Perrino C., Pietrodangelo A., Basart S., **Costabile** F., et al. , An inclusive view of Saharan dust advections to Italy and the Central Mediterranean, *Atmospheric Environment*, Volume 201, p.242-256, 2019.
5. Gualtieri, M., Grollino, M.G., Consales, C., **Costabile**, F., Manigrasso, M., Avino, P., Aufderheide, M., Cordelli, E., Di Liberto, L., Petralia, E., Raschellà, G., Stracquadanio, M., Wiedensohler, A., Pacchierotti, F., Zanini, G.: Is it the time to study air pollution effects under environmental conditions? A case study to support the shift of in vitro toxicology from the bench to the field. *Chemosphere* 207, 552-564, 2018 ; doi: 10.1016/j.chemosphere.2018.05.130
6. Di Ianni, A., **Costabile**, F., Barnaba, F., Di Liberto, L., Weinhold, K., Wiedensohler, A., Struckmeier, C., Drewnick, F., and Gobbi, G.: Black Carbon Aerosol in Rome (Italy): Inference of a Long-Term (2001–2017) Record and Related Trends from AERONET Sun-Photometry Data. *Atmosphere* 2018, 9(3), 81; doi:10.3390/atmos9030081
7. Rizza, U., Barnaba, F., Marcello Miglietta, M., (...) **Costabile**, F., Grasso, F., Paolo Gobbi, G. 2017. WRF-Chem model simulations of a dust outbreak over the central Mediterranean and comparison with multi-sensor desert dust observations. *Atmospheric Chemistry and Physics* 17(1), pp. 93-115
8. Barnaba, F., Bolignano, A., Di Liberto, L., **Costabile**, F. (...), Sozzi, R., Gobbi, G.P.; Desert dust contribution to PM₁₀ loads in Italy: Methods and recommendations addressing the relevant European Commission Guidelines in support to the Air Quality Directive 2008/50; *Atmospheric Environment*, 161, pp. 288-305, 2017
9. **Costabile**, F., et al: First results of the "Carbonaceous aerosol in Rome and Environs (CARE)" experiment: beyond current standards for PM₁₀, *Atmosphere* 2017.
10. **Costabile**, F., Gilardoni, S., Barnaba, F., Di Ianni, A., Di Liberto, L., Dionisi, D., Manigrasso, M., Paglione, M., Poluzzi, V., Rinaldi, M., Facchini, M. C., and Gobbi, G. P.: Characteristics of brown carbon in the urban Po Valley atmosphere, *Atmos. Chem. Phys.*, 17, 1–14, 2017.
11. Gilardoni, S., Massoli, P., Paglione, M., Giulianelli, L., Carbone, C., Rinaldi, M., Decesari, S., Sandrini, S., **Costabile**, F., Gobbi, G.P., Pietrogrande, M.C., Visentin, M., Facchini, M.C., Fuzzi, S.: Direct observation of aqueous secondary organic aerosol from biomass burning emissions. *Proc. Natl. Acad. Sci.*, 113 (36), pp. 10013-10018, 2016.
12. Rizza, U., Barnaba, F., Miglietta, M. M., Gobbi, G. P., Mangia, C., Di Liberto, L., Dionisi, D., **Costabile**, F., and Grasso, F.: WRF-Chem model simulations of a dust outbreak over the Central Mediterranean and comparison with multi-sensor desert dust observations, *Atmos. Chem. Phys. Discuss.*, doi:10.5194/acp-2016-627, in review, 2016.
13. **Costabile**, F., Angelini, F., Barnaba, F., and Gobbi, G. P.: Partitioning of Black Carbon between ultrafine and fine particle modes in an urban airport vs. urban background environment. *Atmospheric Environment*, 102, 136–144, 2015, doi:10.1016/j.atmosenv.2014.11.064
14. Brines, M., Dall'Osto, M., Beddows, D. C. S., Harrison, R. M., Gómez-Moreno, F., Núñez, L., Artíñano, B., **Costabile**, F., Gobbi, G. P., Salimi, F., Morawska, L., Sioutas, C., and Querol, X.: Frequency of new particle formation events in the urban Mediterranean climate, *Atmos. Chem. Phys. Discuss.*, 14, 26463-26494, doi:10.5194/acpd-14-26463-2014, 2014.
15. Liu, Z., Wang, Y. , **Costabile**, F., Amoroso, A., Zhao, C., Huey, L.G., Stickel, R., Liao, J., Zhu, T.: Evidence of aerosols as a media for rapid daytime HONO production over China. *Environmental Science and Technology*, 48 (24), pp. 14386-14391, 2014, 10.1021/es504163z.
16. Gobbi, G. P., Angelini, F., Barnaba, F., **Costabile**, F., Baldasano, J. M., Basart, S., Sozzi, R., and Bolignano, A.: Changes in particulate matter physical properties during Saharan advections over Rome (Italy): a four-year study, 2001–2004, *Atmos. Chem. Phys.*, 13, 7395-7404, doi:10.5194/acp-13-7395-2013, 2013.
17. **Costabile**, F., Barnaba, F., Angelini, F., and Gobbi, G. P.: Identification of key aerosol populations through their size and composition resolved spectral scattering and absorption, *Atmos. Chem. Phys.*, 13, 2455-2470, doi:10.5194/acp-13-2455-2013, 2013.

18. Liu, Z., Wang, Y., Gu, D., Zhao, C., Huey, L. G., Stickel, R., Liao, J., Shao, M., Zhu, T., Zeng, L., Amoroso, A., **Costabile, F.**, Chang, C.-C., and Liu, S.-C.: Summertime photochemistry during CAREBeijing-2007: ROx budgets and O₃ formation, *Atmos. Chem. Phys.*, 12, 7737-7752, doi:10.5194/acp-12-7737-2012, 2012.
19. Zhang, Z., Wang, F., **Costabile, F.**, Allegrini, I., Liu, F., Hong, W. Interpretation of ground-level ozone episodes with atmospheric stability index measurement. *Environ Sci Pollut Res*, DOI 10.1007/s11356-012-0867-3, 2012
20. Liu, Z., Wang, Y., Gu, D., Zhao, C., Huey, L.G., Stickel, R., Liao, J., Shao, M., Zhu, T., Zeng, L., Amoroso, A., and **Costabile, F.** Evidence of Reactive Aromatics As a Major Source of Peroxy Acetyl Nitrate over China. *Environ. Sci. Technol.*, 2010, 44 (18), pp 7017–7022 DOI: 10.1021/es1007966
21. **Costabile, F.**, Bertoni, G., De Santis, F., Bellagotti, R., Ciuchini, C., Vichi, F., Allegrini, I. Spatial distribution of urban air pollution in Lanzhou, China. *Open Environ Pollut Toxicol J*, 2010, 2, 8-15.
22. **Costabile, F.**, Amoroso, A., Wang, F., Sub- μ m particle size distributions in a suburban Mediterranean area. Aerosol populations and their possible relationship with HONO mixing ratios, *Atmospheric Environment* (2010), *Atm. Env* 44, 39, 5258-5268, doi:10.1016/j.atmosenv.2010.08.018).
23. Wang, F., **Costabile, F.**, Li, H., Fang, D., Allegrini, I., Measurements of Ultrafine Particle Size Distribution near Rome. *Atmospheric Research* 98 (2010) 69–77.
24. Wang, F., **Costabile, F.**, Liu, F., Hong, W., Fang, D., Allegrini, I. Ambient BTX measurements in Suzhou, China. *Environ. Monit. Assess.*, 2010, DOI 10.1007/s10661-009-1088-1
25. **Costabile, F.**, Birmili, W., Klose, S., Tuch, T., Wehner, B., Wiedensohler, A., Franck, U., König, K., and Sonntag, A.: Spatio-temporal variability and principal components of the particle number size distribution in an urban atmosphere, *Atmos. Chem. Phys.*, 9, 3163-3195, 2009.
26. Bai Xiaoping , Li Hong , Fang Dong ,Wang Fenjuan, F. **Costabile.** Application Research of Ensemble Kalman Filter in Air Pollution Numerical Prediction, *Huanjing Kexue/Environmental Science*, 29 (2), pp. 283-289. (2008)
27. **Costabile, F.**, Allegrini, I., 2008. A new approach to link transport emissions and air quality: an intelligent transport system based on the control of traffic air pollution. *Environ Model Software*, 23 (3), 258-267, DOI 10.1016/J.envsoft.2007.03.001
28. **Costabile, F.**, Allegrini, I. , 2007.Measurements and analysis of nitrogen oxides and ozone in the yard and on the roof of a street-canyon in Suzhou. *Atmospheric Environment*, Vol 41(31) pp 6637- 6647 doi:10.1016/j.atmosenv.2007.04.018
29. **Costabile, F.**, Bertoni, G., Desantis, F., Wang, F., Hong, W., Liu, F., Allegrini, I., 2006. A preliminary assessment of major air pollutants in the city of Suzhou, China. *Atmospheric Environment Volume 40, Issue 33, Pages 6380-6395*
30. **Costabile, F.** , Desantis, F. , Wang, F., Hong, W., Liu, F. and Allegrini, I., 2006. Representativeness of urban highest polluted zones for siting traffic-oriented air monitoring stations in a Chinese City. *JSME Int. J.-B-Fluids and Therm. Engin.* Volume 49, Issue 1, Pages 35-41
31. **Costabile, F.** , Wang, F., Hong, W., Liu, F. and Allegrini, I., 2006. Spatial distribution of traffic air pollution and evaluation of transport vehicle emission dispersion in ambient air in urban areas. *JSME Int. J.-B-Fluids and Therm. Engin.* Volume 49 , Issue 1 , Pages 27-34.
32. **Costabile, F.**, B. Zani & I. Allegrini, 2008. Spatial distribution of ultrafine particles at urban scale: the road-to-ambient stage. In: “Air Pollution XVI”, pp., C.A. Brebbia & J.W.S. Longhurst (ed.), WIT press, UK (ISSN: 1743-3541), ISBN: 978-1-84564-127-6, DOI: 10.2495/AIR080531
33. Allegrini, I. , **Costabile, F.**, 2008. Monitoring air quality and apportioning urban sources of air pollution. Experiences in China. In: Sustainable development and environment protection, M.L. Gullino, I. Musu, C. Clini, Y. Xiaoling (ed.), Springer press, (English, Chinese), ISBN 978-1-4020-6597-2
34. **Costabile, F.**, Wang, Q., Bertoni, Ciuchini, Wang, F., Allegrini, I. 2006. A preliminary assessment of BTX pollution in urban air in the city of Lanzhou. In: “Air Pollution XIV”, pp.241-250, J.Longhurst & C.A. Brebbia (ed.), WIT press, UK [doi:10.2495/AIR06025, ISSN 1743-3541 (on-line)].
35. **Costabile, F.**, Wang, F., Hong, W., Liu, F., Allegrini, I. 2006. CFD modelling of traffic-related air pollutants around urban street-canyon in Suzhou. In: “Air Pollution XIV”, Volume 86, pp.297-306. J. Longhurst & C.A. Brebbia (ed.), WIT press, UK, ISBN: 1-84564-165-5 [doi:10.2495/AIR06030, ISSN 1743-3541 (on-line)].
36. **Costabile, F.**, Paciucci, L. and Allegrini, I., 2005. Assessment and management of urban air pollution: a new project in Shanghai. In: “Urban Transport XI: Urban transport and the environment in the 21st century”, series Advances in Transport, Volume 18, pp. 467-477, WIT press, C.A. Brebbia and L. Wadhwa (Ed.), UK, ISBN: 978-1-84564-008-8 [doi:10.2495/UT050451, ISSN 1743-3509 (on-line)].
37. Allegrini, I., & **Costabile, F.** 2004. An Intelligent Transport System based on Traffic Air Pollution Control. . In: “Air Pollution XII” , series Advances in Air Pollution, Volume 14, pp. 541-550, C.A. Brebbia (ed.), WIT press, UK [doi:10.2495/AIR040531, ISSN 1743-3541 (on-line)].
38. Allegrini, I., Paternò, C. , Biscotto, M., Hong, W., Liu, F., Yin, Z., & Costabile, F., 2004. According to Framework Directive 96/62/EC, preliminary assessment as a tool for Air Quality Monitoring Network Design in a Chinese City. In: “Air Pollution XII”, series Advances in Air Pollution, Volume 14, pp. 414-424, C.A. Brebbia (ed.), WIT press, UK [doi:10.2495/AIR040411, ISSN 1743-3541 (on-line)].
39. **Costabile, F.** Spatial distribution of traffic-related pollutants from tailpipe-to-road-to-ambient. the case of ultrafine-particles. Ph.D. thesis 02/2008, University of Rome Tor Vergata (<http://hdl.handle.net/2108/500>)
40. Wang Fenjuan, Fang Dong, Li Hong, F. Costabile,(2009). A review of atmospheric ultrafine particles measurements and simulations. *Environmental pollution and control.* (In Chinese)

41. Costabile, F., Allegrini, I. China-Italy- Scientific and technical experiences, 2007. CNR-IIA Press, CNR/IIA/2007/2400, ISBN 978-88-6224-000-0 Rome, Italy, pag. 255.
42. Bai, X., Li, H., Fang, D., Hu, F., Costabile, F., Wang, F., 2007. Application of data assimilation in air quality prediction. *Advances in Earth Science*, Volume 22, Pages 66-73
43. Bai Xiaoping, Zhang Qiming, Fang Dong, Hong Weiming, Liu Fenglei, Francesca Costabile. Application of Artificial Neural Network to Air Pollution Prediction in Suzhou City Science and technology review. 2007, 25(3), 45-49.
44. Allegrini, I., Costabile, F., Ancora, M.P., 2007. Inquinamento e megalopoli: quanto possiamo insegnare e quanto possiamo imparare. *Inquinamento*, N. 89, pag. 32-39 (Italian).
45. Bai Xiaoping, Li Hong, Fang Dong, Francesca Costabile, Liu Fenglei. Applications Research of Data Assimilation in Air pollution Numerical Prediction. *Environmental science*. 2008, 29(2), 11-17.
46. Bai, X., Li, H., Zhang, Q., Costabile, F., Fang, D., 2006. Progress of research on artificial neural network in air pollution prediction. *Science & Technology Review* 24 (12), 77-81 (in Chinese/Abstract English).

 CONFERENCE PAPERS

1. Valentini, S.; V. Bernardoni; G. Calzolari; F. Costabile; L. Di Liberto; G.P. Gobbi; M. Gualtieri; F. Lucarelli; S. Nava; E. Petralia; G. Valli and R. Vecchi. High time-resolved optical and chemical characterisation of wintertime aerosol in Rome (Italy): case studies. 12th International Conference on Carbonaceous Particles in the Atmosphere 03.-06.04.2019, Vienna, Austria (iccpa2019.univie.ac.at)
2. Tranfo, G., Paci, E., Carrieri, M., Marchetti, E., Sisto, R., Gherardi, M., Costabile, F., Bauleo, L., Ancona, C., Pigini, D.: Urinary levels of biomarkers of nucleic acids oxidation in workers and volunteers measured by HPLC-MS/MS. Intl Congress, OEDC 2019 (<http://www.oedc2019.org>)
3. Tranfo, G.; Costabile, F.; Di Ianni, A.; Pigini, D.; Paci, E. Livelli giornalieri di indicatori biologici di esposizione ad inquinanti urbani in due volontari. In Proceedings of the 80 Congresso Nazionale SIMLII, Padova, Italy, 20–22 September 2017.
4. Costabile et al.: THE “CARBONACEOUS AEROSOL IN ROME AND ENVIRONS (CARE)” EXPERIMENT. 11th International Conference on Air Quality - Science and Application, Barcelona, March 2018 - Oral presentation
5. Maurizio Gualtieri, Francesca Costabile, Maria Giuseppa Grollino, Pasquale Avino, Eugenia Cordelli, Antonella Malaguti, Ettore Petralia, Maurizio Manigrasso, Alfred Wiedensholer, Luca Di Liberto, Claudia Consales, Massimo Berico, Michaela Aufderheide, Giampaolo Gobbi, Gabriele Zanini. Air pollution toxicology: is it the right time to leave the bench for the field? A case study integrated approach. SETAC conference 2018
6. F. Costabile, S. Gilardoni, F. Barnaba, A. Di Ianni, L. Di Liberto, D. Dionisi, M. Manigrasso, M. Paglione, V. Poluzzi, M. Rinaldi, M. C. Facchini, G. P. Gobbi, 2016: Caratteristiche del brown aerosol organico invecchiato, PM2016, Roma
7. Costabile, F., F. Angelini, F. Barnaba, L. Di Liberto, D. Dionisi, and G.P. Gobbi: Ultrafine and fine Black Carbon in Rome. European Aerosol Conference, Milan, September 2015, oral presentation 01AAP_0005
8. Gobbi, G.P., F. Barnaba, S. Basart, A. Bolignano, F. Costabile, L. Di Liberto, D. Dionisi, F., Drewnick, F. Lucarelli, M. Manigrasso, C. Perrino, S. Nava, L. Sauvage, R. Sozzi, C. Struckmeier, and H. Wille: An integrated view of Saharan Dust advections: The DIAPASON (LIFE+) experience, European Aerosol Conference, Milan, September 2015, oral presentation 08AAP_0011
9. Gilardoni, S., Rinaldi, M., Paglione, M., Zanca, N., Pietrogrande, M.C., Costabile, F., Poluzzi, V., Facchini C. Contributo della combustione di biomassa all'aerosol carbonioso nella Pianura Padana. PM2014, Genova (20-23 May 2014)
10. Costabile, F., S. Gilardoni, F. Barnaba, M. Rinaldi, S. Ferrari, V. Poluzzi, G. P. Gobbi: Coupling optical and chemical properties of primary and secondary carbonaceous aerosols, EUROPEAN AEROSOL CONFERENCE 2013, Prague.
11. Gobbi, G.P., F. Barnaba, F. Costabile, L. Di Liberto, C. Tirelli, R. Sozzi, Bolignano, M., Morelli: DIAPASON: an user-oriented EC-LIFE+ Project to quantify the role of Saharan dust on European PM10 levels, EUROPEAN AEROSOL CONFERENCE 2013, Prague.
12. Gobbi, G.P., H. Wille, R. Sozzi, S. Frey, A. Bolignano, F. Costabile, F. Angelini, and F. Barnaba: DIAPASON: A better assessment of the impact of Saharan dust on PM measurements, EUROPEAN AEROSOL CONFERENCE 2012, Granada (008 A-WG01S1P08).
13. Costabile, F., Barnaba, F., Angelini, F., and Gobbi, G. P.: Characterizing black carbon and brown carbon aerosols by their optical and microphysical properties in an urban Mediterranean area. *Geophysical Research Abstracts* Vol. 15, EGU2013-6769, 2013.
14. Costabile, F., Barnaba, F., Angelini, F., and Gobbi, G. P.: Spectral dependence of in-situ aerosol optical properties EUROPEAN AEROSOL CONFERENCE 2012, Granada (012 A-WG01S1P12).
15. Di Menno di Bucchianico, A., G. Cattani, A. Gaeta, A. Caricchia, F. Troiano, R. Sozzi, A. Bolignano, F. Sacco, S. Damizia, S. Barberini, R. Caleprico, T. Fabozzi, C. Ancona, L. Ancona, G. Cesaroni, F. Forastiere, G.P. Gobbi, F. Costabile, F. Angelini, F. Barnaba, M. Inglessis, F. Tancredi, L. Palumbo, L. Fontana, A. Bergamaschi, I. Iavicoli: The contribution of Rome-Ciampino airport to the surrounding air quality, EUROPEAN AEROSOL CONFERENCE 2012, Granada (140 C-WG05S1P67).
16. Gobbi, G.P., H. Wille, R. Sozzi, F. Barnaba, F. Costabile, F. Angelini, S. Frey, Bolignano, M., Morelli, Using operational active remote sensing devices to detect Saharan dust advections and evaluate their contribution to the PM10 levels: The EU LIFE+ “DIAPASON” project. *Geophysical Research Abstracts* Vol. 15, EGU2013-7397, 2013
17. Gobbi, G.P., H. Wille, R. Sozzi, A. Bolignano, F. Angelini, F. Barnaba, F. Costabile, S. Frey, Bolignano A., Di Giosa, A. Saharan dust contribution to PM levels: The EC LIFE+ DIAPASON project. *Geophysical Research Abstracts*, Vol. 14, EGU2012-9398, 2012, EGU General Assembly 2012

18. Costabile, F., F. Barnaba, F. Angelini, G.P. Gobbi, 2012. "In-situ aerosol optical properties in a sub-urban Euro-Mediterranean area", 8th International Conference on Air Quality - Science and Application, Athens, 19-23 March 2012 (paper n 887, oral presentation).
19. Gobbi, G.P., H. Wille, R. Sozzi, S. Frey, A. Bolignano, F. Costabile, F. Angelini, and F. Barnaba, 2012. "Diapason: towards a better assessment of the impact of dust in air quality measurements", 8th International Conference on Air Quality - Science and Application, Athens, 19-23 March 2012 (paper n 886, S2-P39, poster presentation)..
20. Costabile, F., F. Angelini, F. Barnaba, G.P. Gobbi, 2011. "In-situ aerosol optical characterization in the sub-urban Mediterranean Area of Rome" . Proceedings of ACCENT-Plus Symposium on Air Quality and Climate Change: Interactions and Feedback, Urbino-Italy, 13-16 September 2011.
21. Gobbi, G.P., H. Wille, R. Sozzi, S. Frey, A. Di Giosa, F. Costabile, F. Angelini, and F. Barnaba, 2011. The EC LIFE+ DIAPASON project: assessing the impact of Saharan advections on PM levels. EUROPEAN AEROSOL CONFERENCE, September 2011, Manchester, UK (Poster session, L11)
22. Gobbi, G.P., H. Wille, R. Sozzi, S. Frey, A. Di Giosa, F. Costabile, F. Angelini, and F. Barnaba, 2011: The Impact of Saharan Advections on Rome PM Levels and the LIFE+ DIAPASON Project, 6th International Workshop on Sand and Duststorms and Associated Dustfall, 7-9 September 2011, Athens, Greece (Oral presentation).
23. Gobbi, G.P., H. Wille, R. Sozzi, S. Frey, A. Di Giosa, F. Costabile, F. Angelini, and F. Barnaba, 2011: The LIFE+ DIAPASON project for the assessment of the impact of Saharan advections on PM levels; Proceedings of the ACCENT-Plus Symposium on Air Quality and Climate Change: Interactions and Feedback, Urbino-Italy, 13-16 September 2011.
24. Amoroso, A., Costabile, F., Wang, Y., Allegrini, I.: High HONO Concentration during daytime at Beijing. 12/2008, American Geophysical Union, Fall Meeting 2008, abstract #A53A-0246, 2008AGUFM.A53A0246A
25. Wang, Y., Zhao, Liu, Z., Gu, D., Huey, G., Stickel, R., Liao, J., Amoroso, A., Costabile, F., Allegrini, I., Shao, M., Zhu, T., Zheng, J., Bowman, K., Hamer, P.: Unique characteristics of regional and urban ozone formation in China. 1/2009, American Geophysical Union, AGU Joint Assembly, A14B-01 INVITED
26. Costabile, F., Birmili, W., Wehner, B., Wiedensohler, A. Variabilità spatio-temporale e componenti principali della distribuzione delle dimensioni del numero di particelle in aria urbana (Oral, Invited, OA2-09). 3° Convegno Nazionale sul Particolato Atmosferico, Bari (Italy), 6-8 October, 2008.
27. Costabile F., and I. Allegrini, 2008. Source apportionment of particle size distribution in the rural area of Rome: A sunset event close to a major road. EUROPEAN AEROSOL CONFERENCE, August 2008, Thessaloniki, Greece (T06A274P)
28. Turnone, A., F. Costabile, F. Guglielmi, V. Ciambottini, M. Montagnoli, M. Giusto and I. Allegrini . Regional background particle size distributions in Rome: A spring-time analysis. EUROPEAN AEROSOL CONFERENCE, August 2008, Thessaloniki, Greece (T06A275P)
29. Costabile, F., I. Allegrini.. Sorgenti principali della distribuzione dimensionale delle particelle di aerosol atmosferico in un'area rurale: analisi di un evento. 3° Convegno Nazionale sul Particolato Atmosferico, Bari (Italy), 6-8 October, 2008 (Post. PA6-091).
30. Turnone, A., F. COSTABILE, F. Guglielmi, V. Ciambottini, M. Montagnoli, M. Giusto, I. Allegrini. Distribuzione dimensionale delle particelle di aerosol in un sito di fondo regionale a Roma: una analisi preliminare. 3° Convegno Nazionale sul Particolato Atmosferico, Bari (Italy), 6-8 October, 2008 (Post. PB6-063)
31. Costabile F., Allegrini, I. (2007). Measurement and analysis in space and time of ultrafine particle number concentration in ambient air. The case of Parma. Proceedings of UFIPOLNET Final Conference. DRESDEN, Germany, 23/24 Ottobre 2007, pp.56-57.
32. Costabile F., and I. Allegrini, 2008. Source apportionment of particle size distribution in the rural area of Rome: A sunset event close to a major road . European Aerosol Conference August 2008, Thessaloniki, Greece (T06A274P)
33. Turnone, A., F. Costabile, F. Guglielmi, V. Ciambottini, M. Montagnoli, M. Giusto and I. Allegrini . Regional background particle size distributions in Rome: A spring-time analysis. European Aerosol Conference August 2008, Thessaloniki, Greece (T06A275P)
34. Costabile, F., Bertoni, G., Desantis, F., Wang, F., Allegrini, I., 2007. Spatial frequency distribution of the main air pollutants and network design of a representative monitoring system in Lanzhou, China. Proceedings of the 6th International Conference on Urban Air Quality, Cyprus, March 27-29, 2007 (Short paper)
35. Costabile, F., Sinesi, M. and Allegrini, I., 2007. CFD analysis of wind flow field for evaluating NO₂, NO, and ozone vertical distribution inside a street-canyon. Proceedings of the 6th International Conference on Urban Air Quality, Cyprus, March 27-29, 2007 (Short paper)
36. Costabile F. and Allegrini I., 2005. Effect of traffic management on urban air pollution: intelligent transport systems based on traffic air pollution control networks, Proceedings of the 5th International Conf. On Urban Air Quality, Valencia, Spain, 29 -31 March 2005, Abstract pp.43, Short paper pp.9-12
37. Costabile F., Bertoni G., Biscotto M., Paciucci L. and Allegrini I., 2005. Indoor Air Quality Monitoring system within the Olympic village in Beijing: proposal and related research, Proceedings of the 5th International Conf. On Urban Air Quality, Valencia, Spain, 29 -31 March 2005, Abstract pp.226, Short paper pp.164-168
38. Allegrini, I., Costabile, F., 2004. An Intelligent Transport Systems based on Traffic Air Pollution control. Proceedings of the 13th World Conf. On Clean Air and environmental protection (London, UK, 22 -27 August 2004), Abstract pp.37, Full paper
39. Allegrini, I., Biscotto, Costabile, F., M., Hong, W., Yin, Z., Liu, F. 2004. In accordance with Framework Directive 96/62/EC, development of an Air Quality Monitoring Network in a Chinese City. Proceedings of the 13th World Conf. On Clean Air and environmental protection (London, UK, 22 -27 August 2004) Abstract pp.104, Full paper 440

40. Costabile F., 2004. Traffic Air Pollution Control., IUAPPA Joint Seminar "Reducing the impact of vehicles on air and environment quality in cities", held at Mexico City, January 22-23, 2004, pp.27-28
41. Allegrini, I., Ianniello, A. & Costabile, F., 2003. Area Saturation Monitoring of atmospheric pollutants by means of passive samplers and diffusion denuders. Proceedings of the 14th Int. Conf. on Air Quality – Assessment and Policy at local, Regional and Global scales, Dubrovnik, Croatia, 6-10 October 2003, (full paper) pp.192-197.
42. Costabile, F. , Desantis, F. , Wang, F., Hong, W., Liu, F. and Allegrini, I., 2005. Representativeness of Urban Highest Polluted Zones for Siting Traffic-Oriented Air Monitoring Stations in a Chinese City. Proceedings of the 16th Regional Conference of Clean Air and Environment in Asian Pacific Area, Tokyo Japan, August 2, 2005, pp.41 (Abstract)
43. Costabile, F. , Wang, F., Hong, W., Liu, F. and Allegrini, I., 2005. Spatial Distribution of Traffic Air Pollution and Evaluation of Transport Vehicle Emission Dispersion in Ambient Air in Urban Areas. Abstract in Proceedings of the 16th Regional Conference of Clean Air and Environment in Asian Pacific Area, Tokyo Japan, August 2, 2005, pp.42 (Abstract)
44. Allegrini, I. , Costabile, F., 2006. The use of passive sampling in designing an optimized Continuous Air Quality Monitoring System. Proceedings of the Conference BAQ 2006 (Better Air Quality), Yogyakarta, Indonesia, Dec13-15, 2006 (Oral presentation)
45. Allegrini, I. & Costabile, F., 2004. Traffic air Pollution monitoring system. Proc. Of the Integrated Program on urban, regional and global air pollution, Seventh workshop on Mexico City air quality, January 19-21, 2004 and Of the Joint meeting with IUAPPA, Mexico City, January 22-23, 2004 (Oral presentation)
46. Allegrini I., Costabile F., 2004. European and Chinese cities., IUAPPA Joint Seminar "Reducing the impact of vehicles on air and environment quality in cities", held at Mexico City, January 22-23, 2004. Session I: Introduction. (Oral presentation)
47. Allegrini I., Costabile F., 2002. A new approach for monitoring atmospheric pollution in urban environment, Proceedings of the Int. Seminar "Urban Air Quality Management", 21-23 October 2002, held at Sao Paulo (Brazil). Organized by the IUAPPA and Brazilian Ass. for Ecology and Water & Air Pollution Prevention in association with the Univ. of Sao Paulo. Session 5: Urban Air Quality and Health. (Oral presentation)
48. Allegrini I., Costabile F., 2002. Clean air for cities: opportunities for progress. Proceedings of the Int. Seminar "Urban Air Quality Management", 21-23 October 2002, held at Sao Paulo (Brazil). Organized by the IUAPPA and Brazilian Ass. for Ecology and Water & Air Pollution Prevention in association with the Univ. of Sao Paulo. Session 5: Urban Air Quality and Health. (Oral presentation)

TECHNICAL REPORTS

1. Costabile, F. and Allegrini, I. Framework for monitoring Air quality in a city like Shanghai. Technical report CNR/IIA/2006/2930, pp.64
2. Costabile, F., Zannerini, D. and Allegrini, I. New methodologies for monitoring networks' reliability. Technical report CNR/IIA/2007/XXX, pp.33
3. Costabile, F., Allegrini, I. Terms of Reference for an Intelligent Transport System based on Traffic Air Pollution Control in Beijing- Technical report CNR/IIA/2004/735, pp.25
4. Costabile, F. and Allegrini, I. Feasibility study and system design for an Intelligent Transport System based on Traffic Air Pollution Control in Beijing- Technical report CNR/IIA/2004/732, pp. 130
5. Costabile, F., Guerriero, E., Biscotto, M., Allegrini, I. Terms of Reference for Chemical Laboratory to support air quality Monitoring in Beijing-. Technical report CNR/IIA/2006/1559, pp.32
6. Costabile, F., Guerriero, E., Biscotto, M., Allegrini, I. Feasibility study and system design for the Olympic Village Monitoring system of Beijing-; Technical report CNR/IIA/2006/1539, pp. 40
7. Costabile, F., Allegrini, I. AQMS – Research project on Suzhou Air Quality Monitoring data interpretation, in collaboration with the Tsinghua University . Technical report CNR/IIA/2006/3015, pp.14
8. Costabile, F., Zannerini, D., Allegrini, I. An electrical mobile unit for measuring traffic air pollution. Technical specifications for the Air Pollution Emission Monitoring system of Shanghai Technical report CNR/IIA/2007/1361, pp.17
9. Costabile, F., Zannerini, D., Allegrini, I. Equipment for measuring traffic air pollution. Technical specifications for the Air Pollution Emission Monitoring system of Shanghai Technical report CNR/IIA/2007/1362, pp.19
10. Costabile, F., Amoroso, A., Ianniello, A., Perrino, C., Allegrini, I. Blue Sky of Beijing: Research on regional air pollution. Technical report CNR/IIA/2007/1594, pp. 18
11. Costabile, F. and Allegrini, I. Air Quality Monitoring Improvement in Urumqi (China). Technical report CNR/IIA/2006/842, pp.20
12. Costabile, F. and Allegrini, I. Traffic Air Pollution Monitoring in Shanghai . Technical report CNR/IIA/2007/1363, pp.21
13. Costabile, F. and Allegrini, I. Air Pollution Emission Monitoring in Shanghai. Technical report CNR/IIA/2006/2931, pp.24
14. Costabile, F., Guerriero, E., Biscotto, M. and Allegrini, I. Design of a Chemical Laboratory and an Olympic Village Monitoring system for the city of Beijing. Technical report CNR/IIA/2005/1560, pp.23.
15. Costabile, F. and Allegrini, I. Executive design of an Air Quality Monitoring System and Greenhouse Gas Emission Inventory in Lanzhou (China)- Technical report CNR/IIA/2005/1445, pp.10
16. Costabile, F. and Allegrini, I. The Air Quality Monitoring System and Greenhouse Gas Emission Inventory in Lanzhou – Technical report CNR/IIA/2005/168, pp.34

17. Costabile, F. , Allegrini,I. Executive design of an Air Quality Monitoring System for the city of Suzhou: system integration and data interpretation scheme. Technical report CNR/IIA/2005
18. Costabile, F. , Allegrini,I. Executive design of an Air Quality Monitoring System for the city of Suzhou: planning and implementing the system . Technical report CNR/IIA/2004
19. Costabile, F., Allegrini,I. The Air Quality Monitoring System of Suzhou: system integration and data interpretation scheme . Technical report CNR/IIA/2006/841, pp.44
20. Costabile, F. and Allegrini,I. The Air Quality Monitoring System of Suzhou: planning and implementing the system . Technical report CNR/IIA/2002
21. Costabile, F., Sinesi, M., Petracchini, F e Allegrini,I.. Dispersione di polveri dai parchi minerari: stabilimento ILVA di Taranto.. Rapporto tecnico CNR/IIA/2006/5935, pp.5
22. Costabile, F., Allegrini, I., Monitoraggio atmosferico in ambiente industriale. Technical report CNR/IIA/2002/70, pp. 31