

CV

PROF. ENRICO FERRERO

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1 Personal informations

- Enrico Ferrero
Born in Torino (Italy), 6 marzo 1961

- WORK ADDRESS:
Università del Piemonte Orientale "A. Avogadro"
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2 Academic qualifications

- 1988 Degree in Physics University of Torino.
- 1988-1989 grant from CSI Piemonte
- 1990-1993 PhD in Geophysics, University of Genova
- 1993-1998 Assistent Researcher of General Physics at the University of Torino in Alessandria (Italy)
- 1998-2006 Assistent Researcher of General Physics and later on of Experimental Physics at the Piemonte Orientale University in Alessandria
- 2006-2016 Associate Professor of Experimental Physics at the University of Piemonte Orientale in Alessandria
- 2016-present Associate Professor of Physics of the Earth System and the circumterrestrial medium at the University of Piemonte Orientale in Alessandria
- 2012 ASN National Scientific Qualification as Full Professor in Atmospheric Physics and Oceanography SC 04A4 Geophysics (SSD GEO/12)
- 2016 ASN National Scientific Qualification as Full Professor in Physics of the Earth System and the circumterrestrial medium (SSD FIS/06) SC 02C1 Astronomy, Astrophysics, Earth and Planetary Physics

2.1 Other qualifications

- Organisation of the Master "Nuove Frontiere della Fisica" University of Piemonte Orientale
- Teaching at Master in Meteorology, University of Torino
- Member of "Senato Accademico integrato" University of Piemonte Orientale
- Teaching at TFA (Teaching qualification course)
- Referee for GEV02 of VQR 2005-2010
- 2000-2012 Member of the "Centro Interdisciplinare per lo Studio e la Conservazione dei Beni Culturali" at University of Piemonte Orientale.
- until 2015 Member of the teaching board of the PhD in Environmental Sciences at the University of Piemonte Orientale.
- 2013-2014 Participation to the COST action ES1002 WIRE
- Member of the Editorial Board of the international journal *Advanced in Meteorology*
- 2016-present Member of the teaching board of the PhD in Aerospace Engineering of the Politecnico di Torino (SCUDO)
- Associate Researcher at the National Research Council, Institute for Atmospheric Science and Climate, in Torino
- Member and Department Representative of Interdepartmental Center "UPO4Sustainability"

3 Scientific skills and competences

- Atmospheric Physics
- Boundary Layer Meteorology
- Atmospheric Turbulence
- Pollutant dispersion modelling
- Physical modelling

3.1 Visiting

- 2015 Visiting Scientist (Invited) at National Center for Atmospheric Research (NCAR), USA, August-September
- 2016 Visiting Scientist (Invited) at National Center for Atmospheric Research (NCAR), USA, August-September
- 2017 Visiting Scientist (Invited) at National Center for Atmospheric Research (NCAR), USA, May-June
- 2018 Visiting Scientist (Invited) at National Center for Atmospheric Research (NCAR), USA, May-June
- 2019 Visiting Scientist (Invited) at National Center for Atmospheric Research (NCAR), USA, May-June

3.2 Reviewer assignments (Journals)

- Journal of Applied Meteorology (American Meteorological Society)
- Atmospheric Environment (Elsevier Science)
- Boundary-Layer Meteorology
- Journal of Wind Engineering & Industrial Aerodynamics (Elsevier Science)
- Environmental Modelling and Software (Elsevier Science)
- Il Nuovo Cimento C
- Physica A

3.3 Reviewer assignments (Projects proposals)

- Israel Foundation
- FWF Austria

3.4 Main scientific collaborations

International:

NASA GISS e Columbia University (New York), Prof. V. Canuto

Laboratoire Coriolis-LEGI, CNRS, (Grenoble), Dr. J. Sommeria

George Mason University, (Washington), Dr. P. Franzese

Universidade Federal de Santa Maria (RS), Brasil, Prof. G. Degrazia

College of Earth, Ocean & Environment, University of Delaware, USA,
Prof. Pablo Huq

NCAR, USA, Dr. Stefano Alessandrini

Ecole Central de Lion, Dr. Pietro Salizzoni

Israel Institute for Biological Research, Ness-Ziona, Israel, Alon Manor

Air Quality Control, Government of Styria, Austria, Dietmar Oetl

Italian:

Dipartimento Fisica Generale, Università di Torino

ISAC-CNR, Sez. Torino

ISAC-CNR, Sez. Lecce, Dr. U. Rizza

RSE, Milano, Dr. G. Pirovano

Dipartimento di Matematica, Università di Torino, Prof. P. Cermelli

3.5 Invited Lectures

- 2005: "The Brownian motion", Einstein day, Faculty of Science, University of Piemonte Orientale
- 2009 IV ARPA National Congress on "Controllo ambientale degli agenti fisici: nuove prospettive e problematiche emergenti", Vercelli, 24-27 marzo 2009, "Turbolenza e modelli di dispersione degli inquinanti in aria: fondamenti fisici e teorici"
- 2009 VI Brazilian Workshop on Micrometeorology, 18-20 November 2009, Santa Maria, RS, Brasile, "Turbulence non-local closure models"
- 2012 Università degli Studi di Napoli "Federico II", Aprile 2012, IL RUOLO DELLA METEOROLOGIA NEI MODELLI FOTOCHIMICI ATMOSFERICI
- 2013 COST Action ES1002: WG3-DLR meeting in Prague March 5th-6th, "Low wind speed and turbulence for mesoscale modelling"
- 2014 University of Napoli "Federico II", 11 March 2014, "Fluidodynamical models for the mean flow and turbulence at different scales, the problem of the low-wind"
- Grenoble 18-19th March 2014, Commemoration Gabriel Chabert d'Hieres and prospective for the new Coriolis platform, *Simulation of atmospheric microbursts in rotating tank*

- 2014 University of Turin, Science for cultural heritage course, title: “Microclimate measurements in outdoor and indoor environment”, 21 May 2014
- 2016: VI ARPA National Conference, Il controllo degli agenti fisici: ambiente, territorio e nuove tecnologie, 6, 7, 8 giugno 2016, ”Modelli di dispersione degli inquinanti in atmosfera: esperienze applicative”
- V Modelling Day in ARIA(NET) 31 January 2018, ”SPRAY- WEB 1.0 Un community model Lagrangiano per la ricerca”

4 Research projects

4.1 Principal investigator of research projects

- 2001 - ”Joint Study on Atmospheric Dispersion Modeling” contract between ICG-CNR and Mitsubishi Heavy Industries Ltd (Nagasaki, Giappone).
- 2002-2003 - ”Mesoscale and local air-sea interaction processes studied through radiometric, backscatter satellite data and atmospheric model” project funded by Space Italian Agency.
- 2004 - “Development and interface of the meteorological code RAMS and the diffusion Model SPRAY”, contract between CESI and Dipartimento di Scienze e Tecnologie Avanzate.
- 2004 - “Verifica tramite simulazioni in situazioni di atmosfera della nuova versione 3.0 del modello di interfaccia MIRS fra il codice RAMS (versione 4.4) e SPRAY”, research contract between CESI and Dipartimento di Scienze e Tecnologie Avanzate.
- 2004 - ”Sviluppo di modelli numerici avanzati per lo studio dell’inquinamento atmosferico”, PhD fellowship funded by Regione Piemonte.
- 2004 - , ”Development of turbulence models”, PhD fellowship funded by Fondazione CRT, Progetto Lagrange on complex systems.
- 2004 - ”Sviluppo di modelli Lagrangiani per inquinanti reattivi e introduzione di algoritmi per la deposizione secca ed umida”, fellowship funded by CESI.
- 2005 - “Sviluppo di modelli Lagrangiani per inquinanti reattivi e introduzione di algoritmi per la deposizione secca ed umida”, research contract between CESI and Dipartimento di Scienze e Tecnologie Avanzate.
- 2004-2005 - Funding of Associazione Ambiente Territorio e Formazione (Provincia di Alessandria) for the photochemical pollution model development.

- 2005 - "Studio modellistico e sperimentale della turbolenza atmosferica e della dispersione di inquinanti in ambiente urbano" project funded by Regione Piemonte.
- 2005 - "Simulazione numerica e in vasca rotante in similitudine di processi di dispersione e trasporto a scale comprensoriale di inquinanti atmosferici", project funded by Regione Piemonte.
- 2006 - "Modellizzazione su scala regionale della dinamica della chimica del particolato atmosferico", project funded by Regione Piemonte.
- 2009 - "Large eddy simulations of atmospheric and oceanic turbulent flows", fellowship for foreign students, co-funded by Regione Piemonte.
- 2009 - "Implementazione di nuove funzionalità degli algoritmi adatti a trattare le problematiche del processo fisico-chimico relativo alla trasformazione chimica degli inquinanti atmosferici, in un modello di dispersione lagrangiano", research contract between ERSE and Dipartimento di Scienze e Tecnologie Avanzate.
- 2010 - "Sviluppo del codice di dispersione lagrangiano SPRAY", research contract between ERSE and Dipartimento di Scienze e Tecnologie Avanzate.
- 2011 - PEA2008 PNRA (Antarctic Research National Program - Annual Executive Program), POLYNOM Project
- 2012 - "SVILUPPO DEL CODICE SPRAY: Valutazione dell'impatto sulla qualità dell'aria della diffusione del veicolo elettrico in prossimità di un'arteria stradale di traffico intenso", research contract, RSE - University of Piemonte Orientale
- 2013 - "REALIZZAZIONE DELLA VERSIONE PUBBLICA DEL CODICE SPRAY", research contract, RSE - University of Piemonte Orientale
- 2014 - Research Contract CESI-UPO: "Collaborazione per applicazione modellistica di dispersione atmosferica"
- 2015-2017 "Stima del rischio dovuto a fenomeni atmosferici intensi in presenza di convezione termica" funded by CRT foundation (competitive call).
- 2015-2016 IsC44 NMTFEPRA Cineca HPC projects (PI)
- 2016-2018 Call for university research, University of Piemonte Orientale (PI) "Integrated system for the fibre pollution assessment in air and characterization of the fibrous phases in different matrixes"
- 2017-2018 IsC44 TNMRA01 Cineca HPC projects (PI)

- 2017-2018 Research contract NTTDATA-UPO on "Big-data and Advanced Analytics"
- 2019 Research contract with ARPA Piemonte for the organisation of the Conference "A 25 anni dall'alluvione del Piemonte 1994, i progressi fatti nella previsione degli eventi estremi e quanto resta ancora da fare"
- 2019 Funding from CRAL foundation for the conference "A 25 anni dall'alluvione del Piemonte 1994, i progressi fatti nella previsione degli eventi estremi e quanto resta ancora da fare"
- 2019 Funding from AMAG for the conference "A 25 anni dall'alluvione del Piemonte 1994, i progressi fatti nella previsione degli eventi estremi e quanto resta ancora da fare"

4.2 Other research projects

- PNRA (Antarctic Research National Program) 2000-2002, Atmospheric Physics and Chemistry: "Chemical and physical evolution of the atmospheric compound in the troposphere: air mass trajectories in the Antarctic troposphere"
- 2002 - Access to major research infrastructures, grande plateforme tournante de Grenoble, Coriolis "Governing parameters for the equation of turbulent diffusion in the PBL of a rotating flow"
- 2005 - INTERREG III B Alpine Space Program, Project: "Monitoring and Minimisation of Traffic-Induced Noise and Air Pollution Along Major Alpine Transport Routes"
- 2015-2016 IsC37_HPCEFM1 Cineca HPC projects
- 2013-2017 Euhit Project, European High-Performance Infrastructures in Turbulence, supported by the European Community Framework Programme 7

5 Conferences, lectures, events organisation

- One day on complexity University of Piemonte Orientale, DISTA, Alessandria (Italy) 22/02/2006
- TurLab workshop, University of Torino, Dep. of Physics, Torino (Italy), 17/11/2010
- 2017 Member of the scientific committee of 18th International Conference on the Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes Bologna, Italy, 9-12 October, 2017

- 2018 Member of the Scientific Organising Committee of AISAM (Italian Association of Atmospheric Sciences and Meteorology) First national conference (AISAM-CN1), Bologna, 10-13 Settembre 2018
- 2018-2019 Member of the organising local committee for the ETC17 (European Turbulence Conference), September 2019
- 2019 Organisation (Local and Scientific committees chair) of the conference "A 25 anni dall'alluvione del Piemonte 1994, i progressi fatti nella previsione degli eventi estremi e quanto resta ancora da fare" 6 November 2019

6 Academic activity and tutoring

6.1 Courses

- General Physics
- General Physics Laboratory
- Physics of fluid
- Environmental Physics
- Statistics and error theory
- Meteorology and Pollutant Dispersion
- Microclimate for cultural heritage
- Turbulence and Dispersion
- Fluid dynamics laboratory
- Stochastic processes
- Computational statistics

6.2 Tutor of Master degree thesis

- 1996-1997, "Esperimenti numerici su casi reali ed ideali di interazione flusso ostacolo in ambiente rotante", N.Loglisci, Master degree in Physics, University of Torino
- 1997-1998, "Studio Modellistico della dispersione turbolenta nello strato limite convettivo" M.Tamiazzo, Master degree in Physics, University of Piemonte Orientale
- 2000-2001, "Studio della dispersione relativa di traccianti passivi in atmosfera attraverso un modello Lagrangiano a due particelle", L.Mortarini, Master degree in Physics, University of Torino

- 2001-2002, "Modelli di chiusura della turbolenza ad ordini elevati per lo strato limite atmosferico neutro", M.Racca, Master degree in Physics, University of Torino
- 2001-2002, "Monitoraggio ambientale tramite l'uso di modelli numerici per la dispersione di inquinanti aeriformi", R. Palma, Master degree in Biology, University of Piemonte Orientale
- 2004-2005, "Studio delle chiusure della turbolenza in un modello meteorologico e loro influenza sui processi di dispersione", E. Orlandi, Master degree in Physics, University of Milano
- 2004-2005, "Modelli matematici per fluidi non newtoniani", G. Fissore, Bachelor's Degree in Physics, University of Piemonte Orientale
- 2006-2007, "Invarianti isotropi e razioni di chiusura nei flussi turbolenti con convezione", E. Carretto, Master degree in Mathematics, University of Torino
- 2007-2008, "Modelli per la dissipazione di energia cinetica e per i termini di pressione per flussi turbolenti", D. Massone, Master degree in Physics, University of Piemonte Orientale
- 2007-2008, "Studio delle condizioni al contorno per un modello di dispersione stocastico", A. Bisignano, Bachelor's Degree in Physics, University of Piemonte Orientale
- 2007-2008, "Analisi e confronto dei dati meteorologici misurati della centralina della Facoltà di Scienze M.F.N.", M. Solari, Bachelor's Degree in Physics, University of Piemonte Orientale
- 2008-2009, "Modelli Lagrangiani di dispersione in atmosfera con reazioni chimiche", C. Lacagnina, Master degree in Physics, University of Torino
- 2008-2009, "Elaborazione dei campi forniti dal modello meteorologico RAMS nello studio della qualità dell'aria: confronto tra valori misurati e valori simulati", G. Soave, Bachelor's Degree in Environmental Science Ambientali, University of Piemonte Orientale
- 2010-2011 *Modello per la funzione di densità di probabilità della concentrazione di scalari passivi in turbolenza reale*, Andrea Bisignano, Master degree in Physics, University del Piemonte Orientale
- 2011-2012 *Simulazione in vasca idrodinamica di microburst atmosferici*, Mattia Solari, Master degree in Physics, University di Torino
- 2012-2013 *Valutazione modellistica dell'inquinamento atmosferico dovuto a sorgenti multiple*, Marco Soda, Bachelor's Degree in Environmental Science, University del Piemonte Orientale

- 2013-2014 *Un Modello Lagrangiano Stocastico a particella singola per lo studio delle fluttuazioni di concentrazione*, Federico Purghè, Master degree in Physics, University of Torino
- 2013-2014 *Modelling the pollutant dispersion of the Fukushima nuclear plant release*, Marco Boetti, Master degree in Physics, University of Torino
- 2014-2015 *Esperimenti di laboratorio su correnti di densità in rotazione*, Cristiano Barbesino, Master degree in Physics of Complex System, University of Torino
- 2015-2016 *Studio del flusso e della turbolenza in un modello di canopy urbana in ambiente rotante*, Federica Fantini, Master degree in Physics, University of Torino
- 2016-2017 *Upper atmosphere data reconstruction, based on SABER/TIMED measurements, and comparisons with MSIS model and soundings*, Francesco Ramotti, Master degree in Physics, University of Torino
- 2016-2017 *Experimental study of Zonostrophic turbulence in a rotating system over a topographic Beta-plane*, Federica Ive, Master degree in Physics, University of Torino
- 2017/2018 *Messa a punto di una metodologia per il monitoraggio della dispersione di fibre di amianto in ambiente urbano* Andrea Savoini Bachelor's Degree in Material Science, University of Piemonte Orientale
- 2017/2018 *Analisi e Confronto dei Dati Meteorologici di Due Centraline Urbane* Antonina Cestaro Bachelor's Degree in Material Science, University of Piemonte Orientale

6.3 Tutor of PhD students

- Dr. Luca Mortarini, "Lagrangian stochastic models for turbulent dispersion and concentration fluctuations in homogeneous and inhomogeneous turbulence", PhD, Physics, Università di Torino, XVIII Ciclo
- Dr. Nicoletta Colonna, "Higher order closure models for turbulence in the atmospheric boundary layer", PhD, Environmental Sciences, Università del Piemonte Orientale, XX Ciclo
- Dr. Alessia Balanzino, "Sviluppo di una catena modellistica per lo studio dell'inquinamento secondario su un dominio a scala regionale", PhD, Environmental Sciences, Università del Piemonte Orientale, XX Ciclo
- Dr. Stefano Alessandrini, PhD, Environmental Sciences, Università del Piemonte Orientale, XXIII Ciclo
- Dr. Andrea Bisignano, PhD, Environmental Sciences, Università del Piemonte Orientale, XXVI Ciclo

6.4 Third mission

- Many years of orientation activities with seminars and exercises for high school students
- 2005: Organization of a Day on Complex Systems at the DiSTA of the University of Eastern Piedmont
- 2005: editing of an article for the University magazine "Ateneo e Citta'" (June 2005, pp. 21-23) "From the Brownian motion to the complex systems" E. Ferrero and E. Scalas.
- 2006: Participation in the Science Festival, Genoa: Collaboration in the exhibition "Tomorrow, the sensitive future" with installation of the hydrodynamic tank.
- 2006: Participation in the Science Festival, Genoa: Participation in the round table on "Energy and the environment: instructions for use"
- 2007: Collaboration with Agor in Science: SCS2007 summer school Seminars on scientific dissemination
- 2009: Organization of the Refresher Course on Climate and Energy of the Degree Course in Physics and Faculty of Science of the University of Eastern Piedmont as part of the Scientific Degrees Project
- 2006, 2007, 2008, 2009: Participation and organization of the Researcher's Night
- 2012: Participation in ITN B2B - Infrastructures and Technologies for the smart city, Turin 27 September 2012
- 2014: Agreement with the Company to Climate Consulting for the installation of a meteorological station at the DISIT headquarters
- 2015: Egyptian-Italian Workshop on Bilateral Scientific Cooperation, Morning of the 16th of June 2015 R-to-R sessions in historical cafes of Turin, Session 1: Renewable Energies and Environment.
- 2017 Researchers' Night 2017 organization of the initiative "STUDYING THE ATMOSPHERE IN THE LABORATORY"
- 2017 Researchers' Night 2017 organization of the initiative "THE IMPORTANCE OF OUR ATMOSPHERE FOR QUALITY IN THE ENVIRONMENT, FOOD AND HEALTH" seminar held by Prof. Dino Zardi, University of Trento, President of the Italian Association of Atmospheric Sciences and Meteorology.
- 2017 Organization of the Session dedicated to University Training in Meteorological Sphere at the third edition of the Festival of Meteorology

- Scientific Degrees Project 2017-2018: Activities with schools in the Hydrodynamic Laboratory
- 2017 Festival of Meteorology 2017, Rovereto 17-19 November, "The courses in meteorology in Italian universities, instructions for use "
- 2018 WORLD METEOROLOGY DAY 2018, Rome - Friday 23 March 2018 GMM2018 - TRAINING IN ATMOSPHERIC SCIENCES, "The educational offer in Italy in atmospheric sciences"
- 2018 Interview on UPOnews "Scientific degrees: research and work for the meteorologists of the future" 11/04/2018
- 2018 Article on Extracampus "THE ROLE OF METEOROLOGY IN ENVIRONMENTAL SUSTAINABILITY"
- 2018 Researchers' Night 2018 organization of the initiative "The atmosphere in a tank looks like a game but it is not a game"
- 2018 Organization of the Session dedicated to University Training in Meteorological area at the fourth edition of the Festival of Meteorology, Rovereto
- 2019 Scientific coordinator of Researcher Night on "Climate, Environment, Sustainability"
- 2019 September Organisation of the event "Il cortile dell'Universit in the "Aperto per Cultura" (ASCOM Alessandria)
- 2019 December Article for the University Journal Extracampus entitled "Strategie linguistiche per i cambiamenti climatici" (Ferrero E. and Napoli M.)
- 2019 Festival of Meteorology 2019, Rovereto 15-17 November, " "
- 2019 WORLD METEOROLOGY DAY 2019, Rome - Friday 23 March 2019 GMM2019 - TRAINING IN ATMOSPHERIC SCIENCES, "The educational offer in Italy in atmospheric sciences"

7 Publications

- WOS: h-index 16; Total citations 811.
- SCOPUS: h-index 16; Total citations 889
- Research Gate: h-index 19 ; Total citations 1078
- Google Scholar: h-index 21 ; Total citations 1467

7.1 International Journals

1. Andrea Bisignano, Enrico Ferrero, Stefano Alessandrini (2019) A Lagrangian dispersion model with a stochastic equation for the temperature fluctuations, *International Journal of Environment and Pollution*, 65 (4), pp. 311-324
 2. Tomasi, Elena; Giovannini, Lorenzo; Falocchi, Marco; Antonacci, Gianluca; Jimnez, Pedro A; Kosovic, Branko; Alessandrini, Stefano; Zardi, Dino; Delle Monache, Luca; Ferrero, Enrico, Turbulence parameterizations for dispersion in sub-kilometer horizontally non-homogeneous flows, *Atmospheric Research*, 228, 122-136, 2019, Elsevier
 3. Ferrero, Enrico; Alessandrini, Stefano; Anderson, Bret; Tomasi, Elena; Jimenez, Pedro; Meech, Scott, 2019, Lagrangian simulation of smoke plume from fire and validation using ground-based lidar and aircraft measurements, *Atmospheric Environment*, 213:659-674, Pergamon
 4. Ferrero, Enrico; Oetl, Dietmar, An evaluation of a Lagrangian stochastic model for the assessment of odours, *Atmospheric Environment*, 206, 237-246, 2019, Pergamon
- 2018**
5. Ferrero, Enrico; Alessandrini, Stefano; Vandenberghe, Francois, Assessment of planetary-boundary-layer schemes in the Weather Research and Forecasting model within and above an urban canopy layer, *Boundary-layer meteorology*, 168, 2, 289-319, 2018, Springer Netherlands
- 2017**
6. Bisignano, Andrea; Mortarini, Luca; Ferrero, Enrico, Evaluation of high-order concentration statistics in a dispersing plume, *Physica A: Statistical Mechanics and its Applications*, 474, 115-126, 2017, Elsevier
 7. Bisignano, Andrea; Mortarini, Luca; Ferrero, Enrico; Alessandrini, Stefano, Model chain for buoyant plume dispersion, *Int J Env Poll*, 62, 2, 3, 2017,
 8. Amicarelli A., G. Leuzzi, P. Monti, S. Alessandrini, E. Ferrero, 2017 A stochastic Lagrangian micromixing model for the dispersion of reactive scalars in turbulent flows: role of concentration fluctuations and improvements to the conserved scalar theory under non-homogeneous conditions; *Environmental Fluid Mechanics*, 17, 715-753
 9. Oetl, D., Ferrero, E. 2017 A simple model to assess odour hours for regulatory purposes, *Atmospheric Environment*, 155, 2017, Pages 162-173
 10. Ferrero, E., Mortarini, L., Purg e, F., 2017, A Simple Parametrization for the Concentration Variance Dissipation in a Lagrangian Single-Particle Model, *Boundary-Layer Meteorology*, Volume 163, Issue 1, 1 April 2017, Pages 91-101

11. E. Ferrero, S. Alessandrini, D. Anfossi, 2017, Lagrangian simulation of plume rise in strong capping inversion, *Int. J. Environ. Poll.*, 62, 2/3/4, 184-199
2016
12. Enrico Ferrero, Stefano Alessandrini, Alessia Balanzino, 2016, Impact of the electric vehicles on the air pollution from a highway, *Applied Energy*, Volume 169, Pages 450-459
2015
13. Andrea Michiorri, Huu-Minh Nguyen, Stefano Alessandrini, John Bjrnar Bremnes, Silke Dierer, Enrico Ferrero, Bjrn-Egil Nygaard, Pierre Pinson, Nikolaos Thomaidis, Sanna Uski, 2015, Forecasting for dynamic line rating, *Renewable and Sustainable Energy Reviews*, 52, 1713-1730
2014
14. Ferrero, E., L. Mortarini, M. Manfrin, M. Solari, and R. Forza (2014), Physical simulation of atmospheric microbursts, *J. Geophys. Res. Atmos.*, 119, 1-14, doi:10.1002/2013JD021243.
15. Elena Costa Frola, Andrea Mazzino, Federico Cassola, Luca Mortarini, Enrico Ferrero, 2014, An Experimental Study of the Statistics of Temperature Fluctuations in the Atmospheric Boundary Layer, *Boundary-Layer Meteorology*, Volume 150, Issue 1, pp 91-106
16. S Trini Castelli, S Falabino, L Mortarini, E Ferrero, R Richiardone, D Anfossi, 2014, *Quarterly Journal of the Royal Meteorological Society*, 140, 683, 2023-2036
17. A Bisignano, L Mortarini, E Ferrero, S Alessandrini, 2014, Analytical offline approach for concentration fluctuations and higher order concentration moments, *Int. J. of Environment and Pollution*, Vol. 55, Nos. 1/2/3/4, pp. 58-66
2013
18. L.Mortarini, E.Ferrero S. Falabino, S. Trini Castelli, R. Richiardone and D. Anfossi, (2013) Low-frequency processes and turbulence structure in a perturbed boundary-layer, *Q. J. R. Meteorol. Soc.* 139: 1059 - 1072
19. E.Ferrero, L.Mortarini, S.Alessandrini and C. Lacagnina (2013) Application of a bivariate Gamma distribution for a chemically reacting plume in the atmosphere, *Boundary-Layer Meteorol.* 147:123-137
20. S. Alessandrini, E. Ferrero, D. Anfossi (2013) A new Lagrangian method for modelling the buoyant plume rise, *Atmospheric Environment* 77 (2013) 239-249
2012

21. Quan L, Ferrero E, Hu F (2012) Relating statistical moments and entropy in the stable boundary layer. *PHYSICA. A*, vol. 391, p. 231-247, ISSN: 0378-4371, doi: 10.1016/j.physa.2011.07.012
 22. S Alessandrini, A Balanzino, E Ferrero and M Riva (2012) Lagrangian modelling evaluation of the NO_x pollution reduction due to electric vehicles introduction, *Int. J. Environment and Pollution*, Vol. 50, Nos. 1/2/3/4, 200-208
 23. E.Ferrero, L.Mortarini, S.Alessandrini and C. Lacagnina (2012) A fluctuating plume model for pollutants dispersion with chemical reactions, *Int. J. Environment and Pollution*, Vol. 48, Nos. 1/2/3/4, 3-12
 24. A. Balanzino, G. Pirovano, E. Ferrero, M. Causà, G.M. Riva (2012) Particulate matter pollution simulations in complex terrain, *Int. J. Environment and Pollution*, Vol. 48, Nos. 1/2/3/4, 39-46
 25. D. Ponziani, E.Ferrero, L. Appolonia and S Migliorini (2012) Effects of temperature and humidity excursions and wind exposure on the arch of Augustus in Aosta, *Journal of Cultural Heritage* 13 462-468
- 2011**
26. S. Alessandrini, E. Ferrero, G. Belfiore, 2011, A Lagrangian dispersion Model with Chemical reaction, *Int. J. Environ. and Pollut.*, Vol. 44, No.1/2/3/4 pp. 182 - 189
 27. A. Balanzino, E. Ferrero, G. Pirovano, C. Pertot, M. Causà, S. Alessandrini, M.P. Costa, (2011), Annual simulation of secondary pollution over northern Italy, *Int. J. Environ. and Pollut.*, Vol. 45, No. 4, 353-384
 28. E. Ferrero, L. Quan, D. Massone, (2011), Turbulence in the stable boundary layer at higher Richardson numbers, *Bound.-layer Meteor.*, 139:225-240 DOI: 10.1007/s10546-010-9581-1
 29. S.Alessandrini and E.Ferrero (2011) A Lagrangian particle model with chemical reactions: application in real atmosphere, *Int. J. Environ. and Pollut.*, 47, (1-4), 97-107
- 2010**
30. D. Anfossi, G. Tinarelli, S. Trini Castelli, E. Ferrero, D. Oettl, G. Degrazia, L. Mortarini, 2010 Well mixed condition verification in windy and low wind speed conditions, *Int. J. Environ. and Pollut.*, Vol. 40, Nos. 1/2/3,
 31. S. Alessandrini, E. Ferrero, C. Pertot, S. Trini Castelli and E. Orlandi, 2010, Turbulence closure in atmospheric circulation model and its influence on the dispersion, *Int. J. Environ. and Pollut.*, Vol. 40, Nos. 1/2/3,
- before 2010**

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